## PAGES

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sions in the city, and are offering lots for zale at prices and terms which cannot fail to appeal to you.

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## EDITORIAL

THE PROBLEMS OF ONTARIO EDUCATIONISTS Last week, in the buildings of Toronto Unierd its annual Provincial Educational Association dresses delivered, discussions A survey of the adtions adopted, affords the public a view of the general direction in which educational affairs are At the meeting At the meeting a year ago a noticeably optimistic spirit prevailed. The first reading of a
new school bill was distributed ; its discussion new school bill was distributed; its discussion
was the paramount interest of the convention was the paramount interest of the convention.
The bill proposed an advisory council, and for rural school teachers in the average sections a minimum salary of $\$ 500$. Both prospects greatly pleased the teachers. Subsequently the proposals became law, but the advisory council was not given the hoped-for power of initiative, and the
number of school sections subject to the $\$ 500$ number of school sections subject to the $\$ 500$
minimum salary was greatly reduced. Assistants minimum salary was greatly reduced. Assistants in small towns and villages, perhaps the most poorly-paid class of teachers, were not helped, but it was felt that raising the salaries of rural school teachers raise the stand or $\$ 500$ a year, would date for the advisory council who polled the high est vote made the raising of the pssistants' halar ies in villages and towns a strong plank in his
But the legislators, in fixing a graded minimum salary, reckoned without their host. In the meantime they have received so stern a command from the rural voter to retreat, that, with the utmost possible promptitude they have a'mounced $\$ 300$ minimum however, was apparently one of regret rather than anger, for it felt that the Legislature sincerely de sired the improvement aimed at, and that it is now about to try persuasion instead of com pulsion.
The teaching body is not sanguine of substantial betterment from the changed outlook-a fact that explains the favorable reception which the union idea received. Now and again for twenty years or more the formation of a teachers' union has been mooted, but it never reached the stage year it was given the chief time and place at the Wednesday evening meeting, and a recommendation that unionizing be tried was carried with little or no opposition. The printed preamble contained, among others, the fowing state-
.. Previous to last year they (the teachers of
(ontario) were the unprotected victims of vicious economic conditions.
"" The recent statesmanlike legislation on behalf of education has aroused bitter opposition in fion to former unjust conditions. - The teachers of Ontario would be unworthy

## re dependents upon the bounty of even a friend-

 And so the Union was formed, not of and by he general Association, but with its encourageforce its demands with the weapons of strikes nd boycotts, but if it is wisely directed, it can achers and trustees.$\qquad$ uminart note continues to be that the developrelated doing, instead of stuffing the memory
with book-learning, is the kind of education tha should be aimed at. Passing-the examination aim strongly tempts to memory-stuffing and but the ebb is not entirely unobstructed in resolution prevailed in one of the sections to re store the former public-school-leaving examina The Association does its work in about dozen different sections or departments. On many subjects they agree, but not infrequently their interests or opinions clash: As an example, the Model School teachers unanimously approved of granting public-school inspectors' certifinctiple. of granting public-school inspectors' certificates only to the holders of the highest grade of public
school teachers' certificates, with five or ten years school teachers' certificates, with five or ten years
successful experience in public-school work. present, inspectors' certificates are not granted to anyone not holding High-school specialists' certi ficates. The Model-school masters waited on the Minister of Education, and pointed out the inapplicability of the H.-S. 'specialists' work to the inspection of elementary schools. The next day the inspectors section passed a resolution advis ing the Minister, in effect, not to open the door quested had re quested
One of the inspectors, who had visited a numYork State, schools in Massachusetts and New rural schools of Ontario. People who believe that the rural schools of this Province have gone or are going to the "demnition bow-wows," would have been astonished to hear how greatly supefior they are in nearly every important respect to those of the two most advanced States in the

GRASS, TREES AND VINES FOR EVERY FARM. The prime ambition of Canadián twentieth-century agriculture should be to make the country a better place to live in. We have destroyed nature s vestments, and taken comparatively little we have left with the verdie unsighly scars which Earth is ever so ready to tweave So for es natural beauty is concerned, the past centuries have been chiefly destructive. It is now for us to make good the loss, and strive to produce that condition happily described by the phrase, "nature idealized." Thus far, urban communities are more fully alive to the great renaisnance than are most rural districts. The City of London. Ont., with its twenty thousand trees, boulevarded streets, and spacious rich green lawns, presents a nore charming blend of natural beauty than surrounding counties surrounding counties.
pearance of Old Country landscapes finished aprestful to the eye-with the crude, raw-looking rectangular, unfinished aspect of the new world. gray clay banks offiend the traveller's eye. Weeds flourish along the roadsides of Ontario and Quebec-the Maritime Provinces are a pleasing contrast in this respect-and in many cases brush obtrudes itself upon the sight. Orchards, illkept and innocent of spray, have to dispute the barns and outbuildings deface the landscape blushinglv nude of trees Stock rample unblushingly nude of trees. Stock trample in miry
barnyards. Houses there are that look like prisons or burracks erected in the midst of commons. All these things and many others may be observed with painful frequency in many districts of the country. Truc, some here and there have tried to do their part by improving the home sur-
roundings, and now and then we find a man who considers there may be other arguments for maintaining a wood-lot than the mere sordid one of dollars and cents. The homesteads of these men find a whole district that has been actuated by such intelligent appreciation of beauty and comsuch intellgent appreciation of beaucy and coma treat to livo. Note, too, that in such districts land values are high, even, higher, accordingly, than the money-making value of their farms werrant, showing that purchasers appreciate in a farm those improvements which they might not have the energy to make. The point of this argument is that it pays in dollars and cents to improve the home surroundings, besides which is the far greater advantage of enabling oneself and family get the good out of life as they go anopg.
make himself an attractive home best He chance not have the time to keep up many. flowerk maj long rows of close-pruned hedges, or a great variety of shrubs, but these are the least desfrable features of home adornment. The more important ones are gently-graded grounds, with plenty of thick, green grass, stately trees grouped or scattered naturally here and there, vines over old walls, good walks, and a general air of neatness around the homestead. These things cost little at the start, and scarcely anything to maintain with every year they grow in beauty and comhold the children to the farm. of coure $n$ matter how nice the home the boys and girle will not all stay on it ; that is fmpossibte. But if the home inside is what it should be, and the farm so menaged as to create enthusiasm in the children's minds', the chances of their becoming discontented will be very much reduced. And if they 'do ledave, "ve' sure they will be the better for the love that has been nurtured in them for the beautiful. Whether they go or stay, whether they seem to turn out well or ill, let their parents always be sure the few dollars' worth of time and money spent in making home attractive will. repay from a bank. Be sure, too, of this, that If, in times gone by, children scorned the unattractive home, they will do so more and more from now on, because they are being universally educated to demand more.

But why dwell on reasons? The wisdom for home adornment surely needs no argument. The important point is how? For this, let us refer our readers to the series of articles prepared for The Farmer's Advocate " by Prof. H. L. Hutt, of the Ontario Agricultural College. Prof. Hutt's recommendation as a landscape gardener is found in the admirable way in which the grounds of the
Ontario Agricultural College are laid out and kept. For, while. no farmer would want such extensive lawns us these the same principles are applicable to a large extent in the embellishment of rural homes in $^{\text {i }}$ Prof. Hutt's advice is practical Read what he has to say, and if you cannot do all that he advises, do what you can

And do not forget to scatter a few handiuls of clover seed along the lanes, roadsides, ditches, and any spots that were bare last year. Do not fail to plant a shelter-belt of spruce to protect the barnyard from winds, as well as one to the north and west sides of the house. Do not longet, either, to fence off the woodland this spring and keep out stock for len or twelve years,
thus making it not only a source of profit invaluable protection ond a source of profit, an ideal natural conservatory thing of beauty, but an flowers and those invaluable riends harboring of birds. No farm is complete without a wood-lot.

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## GROWING OUR OWN BRA

The past twenty-five or fifty years have taught us pretty thoroughly the value of wheat bran. Its virtues are that it is a laxative: it lightens up a heavy meal ration, making it more digestible, and us matter the material the is in itrogen ous matter, the material that goes to make bone, oost of our farm grains and fodders are clover, the lacking in nítrogenous matter, or protein as it is enerally called. By " relatively lacking," we mean that they do not contain quite enough protein to balance up the starch, sugar and fatty substances they contain. The average ration composed of farm-grown feeds, requires the addition of something like bran, oil meal or gluten meal, in order to make a ration that will give the best and most economical results. that we can grow our own bran much the fact ly than we can buy it. To say nothing of cheapwhich should, of course, be grown in regular rover tion on all arable land, alfalfa is found to fill the bill admirably. It contains a large proportion of the very element that makes bran so useful, and like bran, it is also laxative. While not quite so valuable as bran pound for pound, it is near enough to prove a most satisiactory substitute, and the farmer who has a field of clay hillsides has an excellent opportunity to swell his profits
by seeding them to alfalfa and rowing some by seeding them to an srowing some of his protein thereon. Thus he can provide him-
self with a splendid feed to suplement the ordinary farm roughage, such its :traw, roots and We often hear it argued we add to the fertility of way of buying fertilizers, and
one. But here again alfalfa Its nitrogen-by far the most fertility to buy in the form lizers-it takes chiefly from the air
phosphoric acid and lime it obtain
the subsoil. When the soll supply of these mineral elements begins to fail, they may be purchased at comparatively small expense and added to the they will supply the worst-needed elements. The farmer who does this will find it a speedy and economical means of enriching not only his alfalfa field, but indirectly his whole farm, while it will also enable him to produce large crops of the sidened whether as a can be harvested. Conrichment, alfalfa is far ahead of means of soil eneoonomy. With the latter substance hovering around the figure of twenty dollars per ton, we may well ask ourselves the question, "Why not grow my own bran on those stifí clay hills?" Try It pays.

## OUR MARITIME LETTER

Regularly within these late years the Province of Prince Edward Island, at least, has had, in the exhibition call springtime, a sort of educational Department at Ottawa and the local Government conspire to secure a sum』 sufficient to procure prizes for a modest line of grain and roots, an cient held at Chars. Heretofore this Fair has been meetings of a general character the agricultura and where, strange to say they are usually held attended than if they were convoked in the mos remote of our rural settlements. This year Sum merside has pushed her claims to the holding this gathering within her precincts, with so muc success that on the 27th and 28th of March per haps the best fair of the kind so far held here was pulled off, the Commissioner of Agriculture, number of the people's representatives in the Legislature, Supt. Fuller, of Truro Agricultural College, Seed Inspector Moore, Secretary of Agri and farm, and a large attendance of farmers and farmers' wives, assisting. The exhibit was oots remarlcably and the samples of seeds and some fears were entertained of the germinating power of last yeăr's seed on the germinating drought which visited us in July and persevered till September. The grain crop was very short here, except in wheat, and, whilst it could be called a good uverage one, the straw was short in many cases and the grain not as large. It and and vital as the year before.
ise this spring of prudence in selecting native seeds to have io it is a heavy tax on them we know, their seeds by imported complete replacing tremity is as nothing compared to even this consigning those of their own which are nety of to the ground, and thus losing a whole crop or nearly so. It is wonderful with what want of times act, notwithstanding all the will someWork going on amongst them. We hope that the time is not far distant when a farmer would as soon sow seed he has not tested as bury a pig in poke. Of course, many things have to be taken very far in the world, but it is dangerous to go Government has passed a seed Control andion. The regulates to a certain extent Control Act, which seeds, but the trade has already found of impure impose on the unsuspecting, and "Governmen Standard Seed," in big letters, attached to bags of seeds in depots, generally trap them intags purchase of what they consider regular No. 1
seed, whereas the packages class of seeds which have simply been clean enoug a to meet the minimum standard fixed by Section 6 such weeds as are Act, which allows 90 seeds of such weeds as are named in the Act in every
ounce of red clover, 200 in alsike, and 200 in timothy seed. of care with the season's that there is great need offorts to be rewarded in the harvest time. And

sure that he is honestly dealt with by sending for ward to the same place a sample of his purchase It is true that, to be accurate, care must be taken sample by mixing the seed well togethe which it is taken. The size of sample The Seed Commissioner, Departinent culture, Ottawa, and which requires na postare, but passes free through the mails, : "One ounce of grass seeds of all kinds, or of white or alsike clover; two ounces of red clover; ulfalfa, millet, or other seeds of this size ; one-half pound germination test may be forwarded but in noked, a smaller sample one thousand seeds of cereals or two thousand grasses and clover be forwarded

With this opportunity of making assurances in matter so important doubly sure, with little
 the experts before them as to the doubtful viction of native seeds this year; with the conthan lunacy upon them, too, that it were worse hope that will see to it that he is not laboring inses crops contributing to our already too large in vain or noxious weeds, but either test or submit to of official test, in the manner ahove explained all the seeds he intends sowing this season, so that nd their proper consignment to mother earth, and watering we may hope for from Apollo od give the wonderful increase which conhouphtful our crops the perpetual miracle every else in the man marvels at more than anything A. E. BURKE

## CO-OPERATION IN SECURING SPEAKERS

 epers' Association, that neighboring Co. BeeBeekeepers' Associations neighboring County neetings in circuit ure some noted outside talent is a ther to se-o-operation is nowhere more effective than in securing speakers for agricultural meetings. The as a rule, care to leave home and they do not, ree days travelling, to do one hour's speaking unless the pay per minute of dissertation is a good eal higher than most local organizatious are able ment, also that an address is this further argutition. Usually the second deliverance is more lucid than the first, and gains, besides, with the ditions.s. We trust the beekeepers will put this
## HORSES.

THROWS DOWN GAUNTLET FOR THE PERCHERON.
As a farmer's adviser, we are very much pleasen wusiness side of farming satisfactorily deals with the business side of farming satisfactorily, and the Home
Department and
Quiet Hour are most beneficial dealing with the hors question, I am sorry to say you
do not give the Percheron your subscribefi in this locality are of the same opinNow, I am not French, and am a loyal British sub ject, and would rather get our horses from some o
the British Isles, other things being equal, but when comes to horses they must stand on their merits.
We will first consider the feet the best foundation of any draft breed, having a high cup foot, with strong wall, and carries the weight
without letting the sole touch the pavement. The to see in your magazine anyone wanting I have failed scratches for a Percheron. anyone wanting remedy for
this locality. They are the berct-musc are plentiful in thick skin. and will stand hot weather better than any other breed. I have known the Clydesdale and Shire ons at the same work never missed $a$ day, while the thers were being nursed in the stable. price in the market. Two stallions command the highes price it the market. Two stallions were placed in our
Iocelity-one black, at $\$ 2,250$, and a gray, $\$ 2,100$.
timely horse -breeding information BOILED DOWN.

First sign is waxing of teats two or three days before.
Udder becomes full and hard; position of foal alters.
Abdomen becomes more pendant, and points of hips
tall. Wax drops of and gives way to milk.
Mare tooks anxious and moves around
Maxe looks anxious and moves a around box.
Looks round at her fanks.

- carce. Breaks into porspiration: ultimatelvy liee dom with abor comes on
minutes.
When mares foal standing there is great risk with Mares are most anxious to foal alone.
If there is any difficulty, assistance must be given
It must be carefully given, and force avoided First see the fore legs are straight and equal the passage, with head between them.
When head and elbows have passed through, the rest of the body comes quickly.
When foal is born, remove envelope which covers the head, and free mouth and nostrils.
The umbilical cord should be tied and cut two inches from belly of foal.
Tie with carbolized ligature and then cut, and ap Tie with carbolized ligature and then cut, and ap-
ply diluted carbolic acid or other disinfectant to end of navel string.
When properly
done there should never be an en When properly
larged navel. The mare sometimes licks it till it is severed; this
no doubt, is nature's way of doing it. THE FOAL AFTER BIRTH
Mare should be allowed to lie down until she gets up herself. The foal should be taken round to her head, when she will commence to lick it. This dries the foal and brings on circulation.
The foal then struggles to get up. This should not
be interfered with unless in danger against wall, etc., as it expands the lungs and exercises the muscles. The foal should not be lifted onto its legs.
It should not be forced to suck until it is able is well able to wait for an hour or so.
When able to stand it may be supported beside the mare, and its head directed, but never forced, to suck A little milk drawn into the hand, when nose is
close to udder, will often induce it to suck It is most important the foal should get the first milk itself.
When teats are sunall and difficult for foal to get hold of, it should be carefully guided to udder.
When mares are irritable or vicious they should be held or tied up, fore foot held up, or even twitch put
on, until foal has confidence and mare allows it to suck on, until foal has confidence and mare allows it to suck
freely. birth, remove contents of rectum with the finger, on
which a little oil or vaseline is smeared; rubbing with which a little oil or vaseline is smeared; rubbing with the mare after foaling. Give mare a nice warm mash of bran, or a warm drink afterbirth usually comes away in half an hour to two hours; when mares foal before their time it is longer.
It should not be forced or pulled away unless it remains too long; then a veterinary surgeon shouk be employed.
Mares should be kept in at least three days after foaling.
Should not be let out when grass is wet, as foal may lie down and get a cold.
Mares when let out with foal frequently gallop about until foal is heated; it then lies down exhausted and
gets a chill, which turns to inflammation of the lungs gets a chill, which turns to inflammation of the lung
or joints. This should be watched and prevented. or joints. This should be watched and parevented.
When there is too much milk for foal, and udder becomes gorged and hard, mare should be milked tw
or thrice a day until foal is able to take it all. SERVICE AFTER FOALING.
The ninth day is the usual time. This, however, The ninth day is the usual time. This, however,
varies-sometimes it is the eighth, while others go to the tenth or eleventh day. If not in use, horse should not be forced on her
simply because it is the ninth day.
If horse is not taken then, she will run to the
the
twenty-first day.
II forced on the ninth day they often prove barren.
IT The fifteenth day is not of much consequence-it is
in the ninth day not passed off. The twenty-first day is the most important day, th as a trial day and as a service day.
Mares in good health, having had an easy foaling, they successfully pass the twenty-first day. With delicate mares, or those which have had severe $r$ difficult foaling, the twenty-first day is the proper Mares not stinted on the ninth day usually come
min in season on the twenty-first day, and stand to


## It is importa twenty-fifth days

The thirty-fifth is the next imes mares should always be tried. If the mare passes the thirty-first day it is a strong indication that she is
in foal She should, however, be tried again on the forty second day. If a mare passes this successfully she may Many mares break at sixty days, in winich case the first service has generally been cast. ing are the ninth, twenty-first, twenty-fifth, thirty-first,


Hawsker Rosina (15129).
First and champion mare, London Hackney Show, 1907. Chestnut; foaled 1901.


Rosador (4964)
Hackney stallion; chestnut; foaled in 1892. Champion London (England) Hackney Show, 1907 , and twice previously. Shampion Londo time mare is in use.
The natural period is four days, but many not so much. Some only remai
should be closely watched.
It is a great mistake to send mares a long way to the horse, especially in May or June, whien days are
hot, and then another luag journey home. If driven off heated and excited, when in relaxed
condition, the service probably passes away and the conde is bat the service probably passes away and the mare is barren
Absolute qui Assential to allow the after mares are covered is most assist in the due closing of the uterus and its append ages. ${ }^{\text {The }}$ sober, steady horse is the most successful sire

Twitching should be done as little as possible. It is not reasnatable that service should stand when mares
are suffering such pain as severe twitching must proare
duce.
La

Lastly, all mares should be properly hobbled.-[Dr Pallin's prize essay on horse-breeding.

STALLION LICENSE BADLY NEEDED
Editor "The Farmer's Advocate" : I have every confidence in the stallion inspec-
tion act. I had the honor of being appointed one tion act. I had the honor of being appointed one
of the commissioners in the Eastern part of On tario, and the measure
is needed badly down is needed badly dow,
there. In one county
with six townships, with six townships, I found only two regis
tered stallions, and they were of poor
quality. As for interfering with, private rights, let us take an
instance. One man has a scrub stallion, for the service of which he
collects $\$ 2$ to $\$ 4$ us collects $\$ 2$ to $\$ 4$ as
service fees. He breeds service fees. He breeds
this horse to 85 mares,
lea*ing about 60 foals learing about 60 foals.
That man would think That man would think he was hurt by the
proposed law, but he
is only one man. is only one man. The
other 60 got foals that other 60 got foals that
I am safe in saying would sale in saying
least $\$ 50$ less each at at the age of four years than if the mares had
been bred to good reg-
istered stallions. been brea
istered stallions.
two two counties we went
through we found some through we found some
fairly good grade stalfairly good grade stal-
lions, sired by an imported stallion and out
of these common mares of these common mares.
They would have' made geldings worth from
$\$ 200$ to $\$ 250$, whereas the common run of stock was wo
$\$ 125$ to $\$ 150$.
As for the act being As for the act being
designed to benefit im-
porters, it would be designed to benefit im-
porters, it would be
the means of better the means of better
stailions, being im-
ported than a great stallions, being im-
ported than a great
many that are coming out at the present time, when the owners found
their horses being rated second-class.
Now, should the inspection be done year-
ly? It must be done, ly? It must be done,
in the first place, by in the frrst place, by
men that are compe
tent judges, and they tent judges, and they some backbone, and partially. The requirements for a first-
class license should be class license should be that the horse must be registered, sound, of
good conformation, and
have good uction, in have good action, , in
order to get a firstorder to get a first-
class license. For a
second-class license, a second-class license, a ed and sound, but his tion need not be quite so need not be quite
so good as for a first-
class. F or a fow $\begin{array}{llll}\text { class. For a } \\ \text { years-say } & \text { f } & \text { fow } \\ \text { or }\end{array}$ years-say two or
three-good grade stal, lions, that have been leaving fairly good mit to travel for the time mentioned. This would $\begin{aligned} & \text { stock, shald get a per- }\end{aligned}$ be required in some places for a year of two,
till there are enough registered horses. brought intill there are enough registered horses. brought in-
to the country to do the business. I would to the country to do the business. I would enough to pay for the inspection.
Durham Co., Ont.

The first volume of the American Morgan Horse
Register contains the names of some $\mathbf{8 , 0 0 0}$ horses, of Register contains the names of some $\mathbf{3 , 0 0 0}$ horses, of
which the heights of about 1,600 are given. Of these 72 are frum 16.1 to 17 hands, 508 are 15.8 and 16 hands, 852 from 15 to 15.2 , and 152 are 14.3 hands

## THE FARMER'S ADVOCATE.

WOULD LICEMSE THE SCRUB STALlION
I am a reader of "The Farmer enjoy. reading men's "The Farmer's Advocate," and
license. I am not in serent opinions on stallion license. I am not in favor of taxining owners of pedi-
greed stallions by licensing them, as I think it would
be of no be of no beneft for the farmer to have such an act in
force: and then what about the man thich an force: and then what about the mave that has act in
goody sam of and
sumey into the, purchase of a pure-bred horses are scarce, and bed and unsoupd protect, for good horses are scarce, and bad a
he is better than the scrub.
I say license the
Iicense fee, license the less therumb, and make it a good heavy license fee, not less thap fitty dollars for any horse not five dollars for anyone uraing a scrub a fine of twentylicense. In this township we have only one pureblooded horse and about ten scrubs, which oharge bure-
fees, from $\$ 1$ to $\$ 2.50$ to insure. It is impossible fees, from $\$ 1$ to $\$ 2.50$ to insure. It is impossible for
the good horse to pay eaxpenges and buck against all those scrubs, no matter Axpeyges and buck against all instance, I have a colt one year and a half old, from the pure-bred Chyde thorsey thiat Lican get $\$ 125$ for at
any time, and he is only from a pony mare, and I can any time, and he is only from a pony mare, and I can
show you colts from good mares and scrub stallions shat you colts from good mares and scrub stallions
them. It is high are offring for $\$ 70$, and can't sell them. It is high time to put a stop to such work among white people, when they are too blind to see the
olly of it themselves. Give the pure-bred horse Alo

## GOVERIMEITT HORSE - BREEDING

The horse-breeding work at the Colorado Experi
ment Station is progressing very satisfactorily. The ment Station is progressing very satisfactorily. The
stallion Carmion was bred to 26 mares in 1905, and station Carmon was bred to 26 mares in 1905, and
got 24
in foals came last spring, and, while it is too early to
pass an opinion on them, it can be said that they pass an opinion on them, it can be said that they
prove the horse to be a good investment as a sire. prove the horse to be a good investment as a sire.
The stud has been increased by the purchase of two The stud has been increased by the purchase of two
mares in Kentucky one an inbred Mambrino King
mare, and the other by Chester Dare, out of a daughter mare, and the other by Chester Dare, out of a daughter
of Harrison Chief. They have already some Harrison hief blood among the mares in Colorado, but this is he claim can still be made that Mambrino King was grandson of Mambrino "Chief,' whose blood is here in considerable abundance. The female line from Har-
ison Chief is one of the most valuable known for production of quality, style and good conformation, and Mambrino King was one of the handsomest horses ever seen in an American show-ring. For these reasons
these mares should be of great valut in the breeding work.
with the in breeding Morgan horses, in co-operation with the Vermont Experiment Station, was begun in
June, with the purchase of seven mares and two fllies in Vermont and two mares in Kentucky. The object of this work is,to prevent the loss of the Morgan blood and preserve the type, at the same time increasing the
size over that of the old bought by a board composed of Prof. C. F. Curtiss, Director of the Iowa Experiment Station; Mr. Cassius Peck, of thie Vermont Experiment Station, and Mr.
George M. Rommel, the animal husher George M. Rommel, the animal husbandman of this
bureau. The board was very fortunate in securing mares of good size, uniformity and quality, and strong-
ly bred in Morgan line. The mares purchased in Vermont were sired by General Gates, Denning Allen, Bob Morgan, Young Ethan Allen (a full brother of Daniel
Lambert), Rocky Mountain and Gillig. Those bought in Kentucky were sired by Harrison Chief, out of Morgan dams, and give a combination of blood
which is of the greatest value.-[Rider and Driver.

THE FIRST - PRIZE ESSAY
Editor "The Farmer's Advocate" :
Regarding the improvement of the horse in
dustry, I have read all the letters in "The Farm dustry, I have read all the letters in "The Farm-
er's Advocate ", for three or four months, and if
I were to be the judge I would sive Mr and McKnight, of Grey County, first prize for his etter, in your recent issue. He points out the
only practical way of improving the trade to both the breeder and the stallion owner. It is only
fair and just that the stallion owner should make a living profit if he, Hets a fair fee and provides a
first-class horse. He will then be sure of a fair profit, without which he is likely to fall behind best in the country, whereas, if we do not pay
he price, the best horses will be sold out of the co price, and the scrubs will be left for us tof the Let us pay the top fee, and so obtain the
best that is to be had, for the best is none thon good for us Canadian breeters. NAVEL ILL IN FOALS.

Hundreds of neglect to disinfect part formalin to ten parts water: been discovered that the germ which ill and joint-ill in colts and white scou

early on the day they are born, and then. ing the end of it often with a solution? .il. when then fed entirely mom mome prown products.
enters the system by way of the navel opening very soon after birth, and as prevention by the made of this now- Prevention is cheaper and
better than cure, and should be attended to better than cure, and should be attended to
promptly.
proently prepared to promptly.

## LIVE STOCK.

RAISE MORE BACOI HOGS.

$$
\begin{aligned}
& \text { Editor "The Farmer's Advocate } \\
& \text { During the past seasom the }
\end{aligned}
$$

deal of agita past seasom there has been a great agriculture to induce onst prominent leaders in ject, bacon hogs. This is a very important subcannot lay too much stress. It is important alike from a Provincian and an indivilual standpockets," is the more bacom hogs and fill both farmer should respomed this coming summer. every rather skeptical filmerning on the other hand, is ture on a large scall He is governed too much by custom. Hisalit. He is governed too much keeping them in a small pee until they weighed
300 or 350 poumds, and then sold them at $\$ 15$ 300 or 350 poumds, and them sold they at $\$ 15$
to $\$ 20$ each, and the monect looked big If they were satisfied with the flat loog, then why should not be? Perhaps 75 per oent. of the farmers of Ontario do not raise pore bacon hogs for this reason. Do not forget that the fat hogg then thas ally worked up a paying bow Canada, has graduBritain, and because of the quality of bacon we
produce, she is willing to produce, she is willing to pey a big price for it; hog has passed, and let us. Thealize that of the fat of the bacon hog has come Forget the fat hog and raise the real locom liog, porget the fat hog Many of our farmers believe it.
Mat enough money in it to pay for the there is not and "trouble whem gone into oon a large scale. prices, and under. andinary circumstances bacon hog is a good inmesturcumstances, feeding and good judgment is used from the time the baby pig has leamed to care for itself until is a Cobalt.

PASTURING HOGS
Last spring, on the first of May, I had in my
possession thirty small old. I fed these smainely on skimims, mour weeks vards and furnished with suitable shelter small four weeks, however, as the strong, thrifty little fellows had rooted their yards to such an extent, yards. that I would be obliged to enlargee their off with woven wire two acres of unbroken fenced ture, where the lbrakes and fierns were very abun-
dant. In their mew dant. In their mew quarters they were very con tented, and immediately set to work digging up about half of the slkime millk from my thirty cows since they obtained so much food from the pas
ture. I at once bought thirty more little fell four weeks old, and putt in with them. As the
sixty grew sixty geeks old, and putt in with them. As the
so, to meet this fincreasiing demanded more food; so, to meet this increasing demand, I increased
their grain ration, and added water to the skim milk. Occasionally alfalfia, or green peas and small roots or umripe corm, stalk and all, wa given to them or shripe corm, stalk and all
On the first of Sempem their appetites. On the first of September I selected thirty of brought them to the pems. By limiting them to small yards for a fewe dous before shutting them into small pens, their appetites were not injured by the change, and a steady growth, without any
setbacks, followed. This. II may say, is a very mportant factor, and ome which is very often overlooked. If hogs arre talken off pasture and
confined at once to smmall pens, they will confined at once to samalll pens, they will either
lose in weight, or stamd still for a few days rather than thrive amd continuously gain in
weight. These hogs were them fronoed to their greatest
apacity, by giving them all they could eat out impairing their heallth or wasting eat, withmixture of boiled turmipes skim milk, ground
wheat. barley, peas and matts, made thin with hot Wheat. barley, peas and watts. made thin with hot
vater. was fed them twice a day. Once a day Water, was fed them twice a day. Once a day
they were given whole corm on the cob. On this lirty weighed 156 poumdts eart four weeks. The irty weighed 156 poumds earch. making a total
4.500 pounds of porrk. Pork was then conts liva weight. giximer me a total income of wh atho reduced the cosst considerably, The an. and a completre mowned kept of the total

A PRACTICAL EXPERIMENT in size. They were fed on the same ration the first lot. Upon being put into pens each as was weighed, and the total weight in each pen recorded. The weights were as follows:
1,2 and $3,1,474$ pounds, and pens 4 and 5,1154 pounds.- $3,1,474$ pounds, and pens 4 and $5,1,154$
pounds. pounds.
In 26 days they were all sold, and weighed
again. Pens 1, 2 and 3 weighed 1973 per again. Pens 1, 2 and 3 weighed 1,973 pounds weighed 1,537 pounds, making a gain of 383 pounds. This made an aggregate again of 882 pounds in 26 days, or 1.1 pounds gain per hog grain was fed, which I valued ate $\$ 1.30$ per cw this made a total cost of $\$ 36.55$. Thus, you will gain. it cost me four cents to put on a pound of milk was fed, which is worth 26 ,000 pounds of skim cents. per cwt. This made a cost of $\$ 5.60$ extra which brings the cost of production up to 4.7 cents per pound of gain. With pork selling at
$6 \ddagger$ cents per pound, does this pay? Many will argue that $1 \frac{1}{3}$ cents per much profit, but you must consider that the is not ed is raised by yourself, and, by feeding this per cwt. and reaping the manufacturer's prof $\$ 1.30$ slightly over $1 \frac{1}{\ddagger}$ cents besides.
might connection with the same experiment, right be of some interest to note that pens 1, 2 exposed to the cold October nights, while those in pens 4 and 5 enjoyed a home in a well-heated over one pound cases the pens averaged slightly not have you think by these results that i would do just as well in a-cold place as in a warm one under all conditions, but the point is, give a pig plenty of bedding (long straw preferred) in a pen extreme cold, and he will gain as or snow, and faster, than, the one shut up in a warm, stuffy, poorly-ventilated stable.
In conclusion, I would strongly advocate that every farmer fence off this spring two acrese of his enclosure two young bacon hogs for each cow tha he possesses. At the same time plant a smal
piece of sugar beets or turnips to boil in the tops and all, to feed the young hundred-pound
shoats whil shoats when they are taken off the pasture. Then feed them well in pens for four or five, perhaps six, weeks before shipping. Then, when gou see
what large, strong-boned, thrifty fellows the pasture has produced; what a clean, well-manure and well-plowed pasture those hogs have produced; possess, and if you could foresee what a great
benefit our Prover rive fromr Province and our Dominion would de I am confident that when the in her bacon trade you would be ready to raise bacon hogring on a a still Carleton Try it, and prove it for yourselves

STOCK WATERING SYSTEM
I have read with much interest the articles published in your valuable paper on watering
stock. I think I have a complete system, which cost me $\$ 200$, and for the five years I have been
using it, it has costt me only $\$ 5$. The pumping power is atained teen-foot windmill, with which I do my grinding,
straw. hay and corn cutting straw. hay and corn cutting. The water is
brought from a well a distance of about 100 feet from the barn, thereby getting of about 100 with no barnyard soakage. The water is then in the barn, which beeps the water from freezing From the tank in ther o each row of cows (the cows facing each other with an alley between them), one to the separa-
tor room, where the milk is cooled in the summer on hot nights and on Sundays, and one to the
calf pen, where the calves and and cal pen, Where the calves and young cattle are
watered. The cattle in the stable are watered
from a suare use a square wooden trough, which has been in
use foutuen years, and is sound The trough is $1 \frac{1}{2}$ feet from the bottom of the manger, and each cow has a recess of one square
foot with a sliding door, to drink from. The
door keeps the trough fro deed, eetc. Whe trough from being filled up with The taps are turned on and the doors slid up plus water is drained off by a waste pipe in the
end of the trough, and then it is ready for a fresh In the summer, when the cows are in the pas-
lure. thev are watered in ture. they are watered in the daytime by a run-
ning creek, and when they come home to be milked
at night. they are wathered ning creek, and when they come home to be milked
at night, they are watered at a trough into which
watered. I have never had any trouble with the pipe freezing up, as I guard against it hy packing
around those most subjected to the cold with felt paper and sawdust.
What I consider
What I consider the greatest convenience i that one can go on with his work about the ing an occasional look at the water trough to
see that they do not overflow. There is never time that a person need be out of water, if h
takes advantage of the wind and keens the tank The cost of instalation wass much, hut now after with my investment. Hoping that this will prove as valuable to someone interested as it hat
to me.
RICHARD KIDD.

WATER TO FIRE AND LEAD TO DOGS. Editor "The Farmer's Advocate":
I am pleased to acknowlectlye my appreciation I am pleased to acknowledtye my appreciation of
Sandy Fraser's illuminating article in regard to the
dog question, which appeared in your issue of March dog question, which appeared in your issue of March
21st. Alex. McCaig seems to be still of the opinion
that sheep-owners should insure their own sheep. He must respect those cur-keeping neighbors of his a great deal if he thinks it injustice for them to contribute to
the sheep-insurance fund. In reference to his com the sheep-insurance fund. In reference to his com
parison with fire insurance, I would say if we re
strained fire as little from doing harm as some dogs are restrained, we would soon hreak through the in surance companies. If Mr. McCaig wishes to advance
or protect the dog industry, he had better not start or protect the dog industry, he had better not start
a sheep-insurance company, based on a fire-insurance
principle. Insurance companies are all conditional, and principle. conditions of a sheep-insurancure company, supporte by sheepmen only, are for all sheepmen to have a gun,
and endeavor to shoot every dog he deems a menace
to the sheep industry You will agree Mr Editor and endeavor to shoot every dog he deems a menace
to the shep industry. You will agree, Mr. Editor,
that a great many farmers are not skilled marksmen, that a great many farmers are not skilled marksmen,
and the dogs th it escape the shot are the dogs they should insure their sheep against. Fire has its place,
and dogs have their place, and the sleepman that joins and dogs have their place, and the sheepman tha on the
the sheep-insurance company that is designed on
fire-insurance basis will have a perfect right to put the fire-insurance basis will have a perfect right to put the
dogs in their place if they interfere with his sheep. I believe in sheepmen insuring their sheep and pay
ing insurance, if they will form a company and hav every one that becomes a member of this company binc himself that he will have a gun, and keep it in a con
venient pace, and exercise as much zeal and activity venient place, and exercise as much zeal and activity
when he sees a dog after his sheep as he would if he saw his house catching fire. Then they could afford to pay insurnce to cover the loss caused by dogs without
doing themselves iniustice.
1 consifier sheepmen marted
 with insanity, if they think the csuntry against dogs
fund to insure the sheep of the cond Harry. As to our
owned by every Tom, Dick and Ant taxes on other things being lighter on account of pay-
ing a goodly sum to dog tax, if we shoot our dogs the general fund will be insufficient. Our taxes on
other things would get heavy again order to meet
municipality renuirements. Wi minht municipality requirements. We might as well keep our
dogs. dogs.
In reference to Jas. A. Russell's article, I would
caution you, Mr. Editor, and your readers, about paycaution you, Mr. Editor, and your readers, ahout pay
ing any attention to this soft talk ahout dogs at the present time, when there is fear of a dog tax. If we
let every man give his dogs a pedigree, where will we let every man give his dogs a pedigree, where will we
find the men that own the sheep-killers ? From what
1 know of dog nature, I Io not think that his dog kilnow of dog nature, I do not think that his dog
beeing a friend of his own sheep is any guarantee that
he is a friend of his neighbor's sheep. I suppose Mr.
Russelt the he is a friend of his neighbor's sheep. I suppose Mr.
Russell thought giving his dog the title of collie would
exempt him from the sheep-killing class. If dog ownexempt him from the sheer-killing class. If dog own-
ers refuse to pay a dog tax. I think sheepmen should ers refuse to pay a dog tax, I think sheepmen should
lee allowed to insure their sheep as far as possible by
using lead. It is much cheaper to prevent sheep losses using lead. It is much cheaper to prevent sheep losses
ny the use of a little lead then it is to pay them with
silver. My apology for writing this is to tell Alex. Mccaig hy appology for writing this is to tell Alex. surance company on a fire-insurance principle till he
Eets a gun. Every man becoming a member of the
getmpany has to come under the rules, that he will ap-
 Way have something done to protect our most profit
l.le animal, the sheep.
$\begin{aligned} & \text { J. W. SMssell Co., Ont. }\end{aligned}$ 0 "FARMER'S" METHODS ALL RIGHT Have just read your editorial, ". The Happy Wedium," page 517, and while thanking you for The kind words referring to "Farmer "contained $\cdots$.urge in my leter or March ind was the wealess


nerhaps not the best ration, approximates at
least the best for my conditions compatible with
ecomomy. Your issue for March 21 st, containing, connomy. Your issue for March compatible with
as it did. "Uses of Formaling in Agriculture," "Index for 1906," "Varieties of Apples to Plant," with the many other good articles, con-
stituted the best of the many good numbers you are giving us this
Nova Scotia.

## THE COLLEGE COL

The Clydesdale colt whose portrait appears on his page, and which was born at the Ontario Agricultural College, Guelph, in June, 1906, was hay, foaled in 1901; winner of first prize in his


Age 9 months; weight 950 lbs . $\begin{gathered}\text { walt. } \\ \text { Owned by Ontario Agricultural } \\ \text { College. }\end{gathered}$ Sire Right Forward (imp.) (12310); dam Her
Prety Sel Pretty Sel [5394], by Cedric (1
by Prince of Wales (673).
class and the championship as best Clydesdale stallion, any age, at the Canadian National Exhibition, Toronto, 1906, where he was exhibited by Graham Bros., Claremont, Ont., having been purThorncliffe stud of Mr. Robert Davies, Toronto, in Feb., 1906, for $\$ 2,400$. The sire of Right Forward was Prince thomas, whose dam, Lady Lawf the colt, Her Peetty Sel' [5394], bay fonled


Royal Chattan (11489)
Tydestate stallion; bay; foaled 1900. Sire Clan Chattan. Winner of
898, purchased for the O. A. C. at the Thorn cliffe dispersion for $\$ 1,525$, was bred by the late Col. R. Holloway, Alexis, 1ll., sired by Cedri mp.) (1087), and he by Prince of Wales (673).
The colt and his mother were housed during the summer in a fairly large shed which opened the summer in a fairly large shed which opened II and out at will, but later in the season, when the weather became hotter and the flies annoying, which was cool and comfortoble, and then allowed
to the pasture, and was allowed, besides, a liberal grain ration. Once a day she was given bran and crushed oats she was given boiled feed, consisting for the most part of oats and a little whole flaxseed
mixed in. This boiled grain stimulated the milk mixed in. This boiled grain stimulated the mill flow, and the mare had an abundance of milk un
til the day of weaning. As soon as the col til the day of weaning. As soon as the coll
would eat, the mother was tied during the meal wour, and in a separate box he was fed a little bran and crushed oats once a day, and twice a day a little of the boiled feed. A small quantity
of molasses was also given to encourage him to eat.

In September the mare and foal were given the run of a pasture field, being brought in under cover during the heat of the day. Later, as the
weather became cooler, they were given shelter at night, and allowed out during the day. This was continued during October, when both mare and foal were taken over to the main stable and
placed in a roomy box stall. The colt was placed in a roomy box seaned about the first of December

Immediately upon weaning, the colt was taught to take cow's milk. A little difficulty was ex-
perienced at first in getting him to take it, but perienced at first in getting him to take it, but
he soon grew fond of it. The milk he has taken has assisted very materially in giving him his
present weight and in keeping him in thriving present weight and in keeping him in thriving
condition. Besides hay, he has been getting a liberal allowance of grain, part of which has been
boiled for him, as before, and given him once a day. He is now getting per day, at nine months old, what hay he will eat up clean, 4 pounds of
oats, 2 pounds of bran, a little boiled flaxseed, 10 pounds of milk, a little molasses, and a small
mangel has been given regular exercise, hav The colt has been given regular exercise, hay-
ing been turned out into a paddock for a couple of hours each day. Being of an active, energetic disposition, he has made good use of his time in the paddock, and the amount of exercise he has
taken has made possible the liberal system of faeding that has been followed. He has probably not missed a meal since he was born. His de velopment has been very uniform, and we think
his photo will show his condition to be such as should give good promise for the future.
H. S. ARKELLL.

PREVENTION OF CALF SCOURS AND NAVEL ILL "The Farmer's Advocate" has frequently warned Its readers of the newborn colf and foal, causing white scours in calves and navel ill and joint ill in foals, which carries off thousands of tailing heavy loss, to farmears. The prevention recommended has been
the application of a disinfectant solution, such as formalin, cearbolio solution, such as formalin, carbolic
acid or corrosive sublimate to the navel string two or three times daily, until. it is dried up, and
shrivelled and no raw spot reshrivelled and no raw spot re
mains. Now comes the opinion backed by experifence of Mr. James
Peters, the English uudge mion Peters, the English judge, who
officiated at the Chicago Interne officiated at the Chicago Interna-
tional Show in 1901, that the tional Show in 1901, that the young animal's system of the
gern that has caused all thisinisgern that has caused all this misis-
chiff, may be made by the mouth ns well as by the navel, and he is satisfied from observation that by
washing the udder and teats of washing the udder and teats of
the dam with a solution of one of the coal-tar disinfectants or sheep the coal-tar disinfectants or shere the youngster is al-
dips
lowed to suck, and daily for a lowed to suck, and daily for a
week or two, the danger from week or two, the danger from
scours in the calf, and navel ml , joint ill and scours in the foal, is reduced to a minimum it not en-
tirely avoided. The two precautirely avoided. The two precau-
tions, disinfecting the manmme of the mother and the navel of the young, should be combined. The
trentment costs but little in time Crentment costs but little in time
or material, and is surely well worth attending to promptly and persistently. It is important to ave the prescription on hand,
ready for use, when occasion reready for
quires it.

## A WEEKLY SURPRISE PARTY

Collins, " Cedar Lol Farm." Rosell Ont, writes. "I I like thousands," Russell feel that I should like to congratulate you on the excellent work vou are doing, and am surprised that you can fill a paper the size of 'The Farminf Advocate' every week with such very valuable yearmation, one item of which is often worth the yearly subscription price. Wishing you and your

## THE FARM.

## al excellemt whitewash

A piece of information that is continually in wash off. We do not whitewash that will not thing, but the following is considered as such a article as there is in its line. It was good an U. S. Grant to whitewash the White House by Washington. Some time ago there was published an autograph letter, written in December, 1871 by Mr. Grant, then President of the United States to a friend in Canifornia, in which this formula was given. It has since been widely published in ar's Advace" agriculural press. "The Farmand lreep in a safe, every reader to cut it out Here it is : Half a

Slack with in the stear: Cover it during the process to keep sieve or strainer; add a peck of salt previously well dissolved in warm water, three prounds of ground rice boiled to a thin paste, and stir in
boling hot; half pound of powdered Spenish whitigg and a pound of of plue which has previousty heer dissolved over a slow firch has previousgallons hot water to the mixture; stir well, and dirt. It should be put on hot. One pint the mixture will cover a square yard, properly ap plied. Small brushes are best. There is nothing that can compare with it for outside or inyears. Coloring matter may be put in, and many of any shade-Spanish brown, yellow and made

## MaMure spreader a great labor saver

 War "The Farmer's AdvocatoIT heve read a number of letters in "/ The Farm er Advocate about the manure pile and the manure spreader, and have heard many people think that the manure spreader did not pay. labor-saving manure spreader is one of the most farm, although I neighbor has one, $\mathrm{M}_{\mathrm{y}}$ nex Ifind that, not only is thent for $\$ 1.00$ per day oconomy, as a man with a mane spreader an much as three men would do spreading it in as old way, but it spreads the manure evenly, and the a way that will bring larger returns. which will soon pay for the machine. I am quite sure that much as any other Iquor-saving implements about the farm.
ereat many farmers lose a preat, I think that a dling the manure properly. I am not in favor of spreading it direct from the stable to the field in winta letting the water wash most of the so haul it out of it in the spring. My plan is spread it in, and then, after the hay is off, you can spread it on with the spreader; and, besides, piling it kills a lot of weeds, which are getting Tould like to hear from others. my views, and Wright Co., Que. $\begin{aligned} & \text { A Subscriber. }\end{aligned}$

ECONOMY IN CAREFUL SPREADING OF MANURE Knowledge und thorough work will bring good results in even as simple a matter as spreading farmer. 'Take time to get the manure the Ohio fine and even on the ground before plowingughly vou have a manure spreader, that will be a grea nake one profitable, I would buy one as soon you are able, and have a good shelter for it Take pains in spreading from the wagon fir The pains in spreading from the wagon first thus making it more fine and even. A piece or plank with holes in
may do good work.
chunks, go over the
them all to pieces; and
get by so d
the manure.
the manure.
pose you put ten tons on an
you can pulverize this manur
you can pulverize this manure
it so even that when you come
it so even that when $y$
trace of it can be seen
trace of it can be seen, you have
the best possible condition for cro
the manure is concerned.

OLD ONTARIO HOLDS HER OWM AT mIXE FARMING.

## Editor "The Farmer's Advocato

In your issue of February 7 th . "Horseback Farmer
presents some queer figures from his farm of 195 acres. and gives the net profit
year as $\$ 1,251$ acres cleared, for the year as 81,251 . Taking his own figures 1 doubt very
much if his bank account $\$ 1,251$, although if I had as much a net gain o money in stock and implements, and could not he, and that by at least $50 \%$, I would get ofld the horse and some figures along this out. A year ago I yave yound you some figures along this line, and found my aggregate
sales for the year amounted to over $\$ 1,070$ off this 67 acres. I became a little optimistic, and promised you
a better showing favortable showson. I will year, with an ondinarily and machinery, and all that sort of thing estimate stock tetail the exact figures of my sales made off this small farm without buying either grain or feed for the last
two years (with the two years (with the exception of 50 bushels of corn in here, that my on a debt). I might also state right any soiling crop whatever, and as my clover all froze out last winter, our pasture was not up to the normal that terrible wind and rain storm in and oats, and actory peas so badly (they were just setting) our with were only half a crop. These things, together With the loss of three fine colts (the one a registered
Elackney, and full sister to Blue Bonner for $\$ 500$ cash at 8 months Blue Bonnet, that was sold
cold the fall before), and a registered Holstein call, two ewes and five lambs, of what is called bad luck. We little more than our share cows, one two-year-old heifer and milked thre full aged


Cash for milk
Cash for butte
Estimated check not yet recei
st April.
34994
872

- 1000

We had all we wanted to use for the family 38366
also from these five cows, average $\$ 76.73$
each.
each.
From 6 acres sweet corn from canning factory 10864
From 4 acres sweet peas from canning factory
For 4 Holstein heifer calves canning factory
For 1 Holstein bull calf
-growth of 1 -year-old heifer, sold for $\$ 100$. ${ }^{\text {t-growth of }} 2$-ycar-old heifer, sold for $\$ 90$
Service for bull
12 Leicester lambs
10 flecese of wool
Service for ram
Young hogs for
Service for hog breeding and killing
rowth of 1 -year-old colt, sold for $\$ 102$; profit
t-growth of 2 -year-old colt, sold
Chickens
Eggs.
Potatoes
Eggs....
Potatoes
Berries
Berries
Cabbage
Carbbage
Turnigs
Radishes
Radishes
Apples
Apples
Prize money

There can justly be $\quad$| 1347 |
| :---: | :---: | :---: |

best registered be added to this ther calves kept
Work done with team and otherwise
19 cords wood sold
cipal reforred to been teaching these trees learners to the living he would have taker to observe, handle, compare and know the them ties, instead of showing them pictures.
The teacher who doe The teacher who does not know his such as a spruce tree, would matke tangible object ob , of teaching so complex a subject ve sory of the things, mamely the cost, value and quality the things the farmer has to buy and sell.
Londiton, Ont.

A SURVEY OF PRESENT - DAY AGRIICULTURE yclopedia of receipt of the initial volume of the work, prepared under the able editorial monumental Prof. L. H. Bailey, of Cornell editorial direction of defines itself as ' a a , conditions, practices and ideals in the agricultural and Canada," and will be completed in United States illustrated by 100 full-page peled in four volumes, 2,000 other pictures. Its design is public the agriculture of to-day at its very bestore the than to work out new paths. Over 100 expert rathe contributed to the first volume of about 600 have and a host of others assisted in proof-reading and ness. The in order to ensure accuracy and complete ness. The first volume deals, 1st, with agricultural and. 3rd, the the layout and organization of farms, character of plants and animals. determine the life and is to be devoted to crops, the third to second volume the fourth to the frops, the third to animals, and pressed in history, biography, bibliography, education,
statistics, economic and social statistics, economic and social questions. Our readers
will learn with satisfartion Canadian names appear among those who shrinkling of preparation of the volume before us, among them being
he following Ready, A. G. Dickson, C. C. James, F. L. Fuller, J. C. Ready, A. G. Dickson, G. A. Gigault, C. A. Zavitu,
w. J. Black, Ralph S. Eaton, w. C. Good, C. W.
Peterson, J. Col Peterson, J. C. Chapais, J. H. Grisdale, John w. Craig, Prof. M. Cumming, Prof. G. E. Das, Prof. A.
H. Dean, Dr. Jas. Fletcher, Geo. Hed L. Hutt, Hugh McKellar, Geo. Harcourt, Prof. H. Robertson, R. Robertson, C. E. Saunders, Dr. Wm. Saunders, and Richard Waugh. In the library of the agriculturist these volumes will rank with the Cyclo-
pedia of American ago under Prof. Bailey's editorial direction, and years as an achievement in technical literature for referench In that particular purposes, deservedly holds high rank. himself peculicialy at home. and Bailey naturally found hasself peculiarly at home, and the experience gained general work, which, in view of the present revival and popularity of agriculture on this continent, revival and
an opportune time. It an by the Macmillan Company, of Toronto, Cantractive form
by
Yo York, U.S.A., and Lompany, of Toronto, Canada; New
its distinguished its distinguished editorial direction, that assures the

## SUMMER-FALLOWING FOR QUACK GRASS

 Being a subscriber toscanned every item that the valuable paper, I advance concerning quack grass, and how to eradicate it. I tried different methods I saw recom-mended-plowing light after harvest and deep gain just before it froze up, and plowing twice again in the spring, plowing deep trying to smother it, and raking and burning the roots-
but it did no good, only tickled the plants and made them grow beoder. only tickled the plants and and thick I could not get a cultivator through to
raise the roots It believe the only way to make a thorough job is to summer-fallow. I plowed twice in the fall,
the last time just before it froze up. I had four acres in the piece I intended to fallow, but
changed my mind and changed my mind and only fallowed one acre and the center of the field. The of the piece through
and corn the wast and corn. The piece I fallowed was so thick and matted I could hardly plow it; was so thick and
raise the plow out of the pould was a hot and dry day ground. Whenever there and harrow to bring the roots to the coltivate the sun would soon finish them to the top, and did more cul-
tivating and harrowing than plowing, so as not
to bury too mony the fail I I don't think you could find a a dozen in
green spears. The balance of the piase I green spears. The balance of the piece a d dozen
mangels, potatoes and corn mangels, potatoes and corn. Mangels a put in
tatoes are better than corn potatoes are better than corn to get rid of po-
grass, but you have to lose some plants of the manure fork to lift the roots out ints. I used spots. In corn it is more difficult in to see the
grass when the corn gets high grass when the corn gets high. Some will be the
missed close to the stalks. In cutting the corn.
I saw a number close to the stalks.

This is the exact amount of 81,621 on
acres for 1906 to March 1st, with the exception of the
estimated February cheese check. As my neighbors will see, it does not include the gross price or net
profits aged ewes, 2 cows, 1 horse, 9 grade young cattle, 6


## PICTURE-StUDY IS NOT NATURE-STUDY

## On page Farmer's Advocate ": Ong ". X. I. C." refers to centain



## WASTIMG MONEY ON ROADS

We have given enough time in investigating the value of the road drag, says Wallace's Farmer, to be absolutely convinced that, after the road
is first drained and graded, an expenditure of five dollars a mile in the use of the drag will keep the roads in better condition than any living man has ever expected to see them, or that nine men out
of ten believe they can be kept. We simply throw money away in allowing the roads to men and teams together, use an expensive grader pile up a lot of loose dirt, and, with grass and weeds galore in the middle of the road, rendering pels us to use it. This is simply folly unspeakable, and a waste of good money.
It is equally folly for us to put in wooden culverts. The time has gone by when any culverts should be made of wood. It is equal folly bridges, even though the stone were quarried and lying on the ground. These stone foundations or bridges will just as surely crumble as the
years come. Twenty years ago road supervisors ceased to build stone bridges, but, instead, put in piling in iron tubes. These will stand for twor or three generations. It has been perfectly cleary demonstrated that cement is cheaper than the
stone quarried and lying ready to put in. Therelore, if we are to save our money, we must discard these bridges with stone foundation, put in cement; discard all the wooden culverts, using drained by tiling or otherwise, and graded, use simply the road drag.
There is not much to the road question where the rainfall is less than, twenty inches; but where
the rainfall is from thirty to forty inches, we the rainfall is from thirty to forty inches, we of the year, unless we learn how to use our noney, collected in the shape of taxes, intelligentThe great trouble is to get road supervisors
g pait patching up roads or bridges or culverts and put in permanent culverts and bridges, using coment, costly as it may seem at first, but with he confidence that it will stand until their grand-
hildren are ready to vote. Having done this, quit patching up the roads. Drain the roads if they need draining, and grade them if they need grading, and then make it to the interest of the
armers to get out after every rain and drag the roads, using the cheapest and lightest drag that they can possibly make.

FREE ADVICE ON LAYING OUT DRAINAGE SYSTEM.
For the past two years the Department of Physics of the Ontario Agricut the Provincial Minister of Agriculture to go out among farmers ho requested land for drainage purposes, locate the drains or them, and give information generally on the subject of farm drainage. The only expense enCailed on the applicant for aid is the travelling Several in one vicinity may make arrangements to have their work done at the same time, and by each man paying only his proportionate share, the expense to each is very small. We are requested
to announce that Mr. W. H. Day, B. A., the Lecturer in Physics, will be again available this summer for the purpose of laying out drainage systems, and one fact that should still further in crease the demand for his services is that President
Creelman has made arrangements by which members of the College staff travel at a rate of one cent per mile each way. A person living, say, 50
miles from Guelph would have an outlay of only miles from Guelph would have an outlay of only
31.00 for railway fare, and 25 or 50 cents for 81.00 for railway fare, and 25 or 50 cents for
cartage of instruments, and the services of the expert will be at his disp.osal long enough to sur-
vey vey his land, advise him as to the best course of his drains, and provide him with a map showing
the same. Our readers will remember the recent series of most acceptable articles by Mr. Day on the subject of "Practical, Farm Drainage," and
we trust that this summer, as last, a large numWe trust that this summer, as last, a large num-
her of our subscribers may avail themselves of


NEW VARIETY OF CLOVER.
Bulletin 45, Bureau of Plant Industry, Depart
inm of Agriculture, Washington, U. S. A., deS one or two types of red clover brought ad most promising is called Orel, and one ad clover, hence is expected to make less dusty 1an common red or Mammoth clover. It is (1) yield well and produce much leafage, but the same time as Mammoth. It is no the same time as Mammoth. it or either of these

AN EXAMPLE OF inOCuLATION

The the ample information published by artifial panying engraving will be of especial accomThe cut shows two plants of red clover grown in the Province of Saskatchewan, one from seed
that had been treated with nitro-culture, the other from untreated seed


The Results of Inoculation in Saskatchewan.
formed about the conditions under which these clover plants were grown, except that the soil was rather low it is, however, a safe guess
that it was on a farm where clover had not been grown heretofore. Had this crop been grown on Adjacent fields that were pastured by stock kept on the farm, the soil of this field would probably
have been more or less supplied with the nitrogengathering bacteria, hence nitro-culture would not have given such marked results as it did.
One other fact that may be saiely deduced from the iflustration: The soil, even though low could not have been very sour or very poor in tion would insure a vigorous growth. To grow must be right, and the presence of the nitrogen-
gathering bacteria is only one of these conditions. The practical point impressed by the picture is this: If sowing clover on a farm where clover has not been grown recently, or if sowing alfalia on a farm where nefore, it will, in all probability, pay to scatter over the field one load per acre of surface loam from an old-established clover alfalfa. field. If this is not practicable, send to
the Ontario Agricultural College, Guelph, for, a the Ontario Agricultural College, Guelph, clover or other legume you wish to grow, and treat the seed with this. If, besides, you will make
sure the soil is sweet, by applying 30 to 50 buint els of lime per acre, you have done a very graat deal to insure a successful catch and a profitable

## THE DAIRY.

## A SYSTEMATIC RECORD.

Editor "The Farmer" Advocate"
Below find record of 14 cows for 1906 . Tri weighed and recorded twice daily; scales, shoets and pencil in stables. Time required for weigh This is our first year weighing. Milk recorded ader any circumstance is to a decided advantage. Every cow every day tells her tale.
is for him who feeds and milks to take heed. Our cows are mostly Shorthorn grades, of milking strain. Milk tested twice during season, ows : Fourteen cows, 69,272 pounds ${ }^{2}$. averag 4,948 pounds per cows; ${ }^{69,272}$ pounds ; average test, 190 pound aquals 226 pounds butter each. Cash returns as follows: Returns from factory for cream, $\$ 626.44$; for veal calves, $\$ 25.50$; kept
nine calves, estimated to average ten days nine calves, estimated to average ten days each
whole mill,, $\$ 25.00$; 80 per cent. of whole mill (making 55,417 pounds skim milk, at 15 c .) 882 two families, using four quarts daily, for 10 c . per amily, for 365 days, $\$ 36.50$; gross amou 795.44. An average of $\$ 56.78$ per cow.
Westmoreland, N. B. ALEX. L. WRIGHT

NOT "WORKING IN THE DARK" HERE.
Editor "The Farmer's Advocate"'
Starting from January 1st, 1907, our books will show a record of each individual cow, from the date of freshening throughout the year. At cows, but this number will shortly be greatiy augmented, until we reach fifty-our limit for the record of our cows, because we wish to establish a dairy herd of the greatest possible excellence capable of giving us the highest returns; and it is mpossible to know The extra time required is not more than thre minutes for each cow. The cows are numbered A lad receives the milk Yrom the milker in a puil sept ior the purpose, which has been weighed, He
carries it to the scales and weighs it, enters the weight on the record sheet corresponding with the number of the cow, and with a tiny dipper takes
a sample of milk from the pail for the test bottle,


The Results of Inoculation.
Showing two plots of alfalfa seeding on the Agricultural College Farm, Truro s. The plot on the left was grown from untreated seed ; that on the ht from seed that had been treated with nitru-culture. Mark
stake, 10 inches from ground, shows height of alfalfa
plants in inoculated plot; same stake he to seen in
which also bears the number of the co
Every dairyman knows the tested
dividual treatman knows that cows require will gain a treament. By watching, your test, you required, and better knowledge of the treatment your food machine "' the know ior a certainty if your food machine, "the cow,"' is paying for he
expense and giving you a good dividend
To your last question
benefit to a man who is already taking records a care of his herd as he knows how?"'I can only
say that, without records, great extent, working in the dark, and at hap great extent, working in the dark, and at hap-
hazard. He may be putting the same care and expense on an animal which is a dead cass, and perhaps brings him in a clear profit of anything
phed from $\$ 50$ to $\$ 100$ per annum, C. Drofit of any

Prescott Co.,
gricultural Mand HEGOYEN

## PAYS TO TEST

Tests of my cows by the Pure Milk Supply Co., at the Soo, have satisfied me mportant to know your cows. I found the following advantages

1. That it is an easy matter to be decoived in 2.
2. That actual testing is the
proving and improving your her

I test mproving your herd. much on the subject, and I I heard and read so personal proof-actual testing- wanted to know by personal proof-actual testing- that I could not
be misled. I tried it one whole season, and am
satisfied the satisfied that it pays any man to know his cows, and that he can only do so by actual testing.
course, to breed, feed and weed is the only w course, to breed, feed and weed is the only way
to have good cows or a good herd. You keep or use a good sire. I believe testing by keeping a record is good for any person, as it leads on to those things.
I would not be withou
cate," if I took no other paper former's Advo say, nothing of my other paper for my family, to
Algoma, Ont.

## TIME WELL SPENT

now, and kept individual milk records four years now, and I would not think of getting along with-
out them. As for the time it takes, I think about four minutes per day would cover all the I think at one minute per cow it would be to it well spent. And, as for the good they have done me, if I have a milk cow to sell, I can turn up year. My cows averaged 5,000 pounds for seven months last year, but I hope to do a lot better I am sure a cow is paying me well for her then ne I was guessing about than I would with keeps milk records, and reads "The Farmer's Advocate," and puts what he learns from it int cold day like this.
Russell Co., Ont.

ESSENTIAL TO INTELLIGENT FEEDING

| or ". The Farmer's Advocate " |
| :---: |
| believe individual milk records are not only |
| beneficial, but that they are essential to intelli- |
| gent feeding. I have only been keeping these |
| records for the past season, but am satisfied that |
| I have been amply repaid for all the time taken |
| up by such work. I have not timed myself at |
| this work, 'but I believe that, by taking two pails |
| to the farthest cows from the scales, and milking |
| two cows, and carrying same to be weighed and |
| corded, that probably about 15 seconds per cow |
| d be the average time required. Now, as to |
| why I commenced this, I had purchased a pure- |
| bred cow, und was anxious to know what she |
| was going to do for me for the season. I have |
| learned which cows are paying for their I have |
|  |
| and which ones are not-that is, in feeding |
| or mifk at this season of the year |
| Oford Co., Ont. T. (. PATE: |

HALF A MINUTE PER COW.
four years. It takics
cow to weigh the milk
ords, was to find out
were not giving their
were not giving their 5 .on
vear. I have learned that
herd were not doing so
ting rid of the non-paying
records are a benefit
cow, he does not know for
the year what his cows have
O. A. C. DAIRY SCHOOL EXAMINATIONS The Dairy School term at the O.L. whi the history of the Dairy School. There wessil proportion of those registering who took the final ex aminations than has been the case in any one yea heretofore. The results in proficiency list only ar given for the factory, specialists in buttermaking and armairy classes. Students are ranked according to inations. Those in both practical and writtern exam quired to pass a suplerts having a star will be re ject or subjects a supplemental examination in the subertificates.


Bacteriology ${ }^{* * D e c t e r i o l o g y ~ a n d ~}$
FARM-DARY CIASS


THE OIL TEST OUT OF DATE
We notice, among the creamery reports from ern States, and also from some sections northnyslvania, that there is still an occasional creamry adhering to the oil test in determining the fat content of the cream received. While this method is approximately accurate, and was a material improvement over the old method of payof the Babcock test has now almost completely revenience. In making determinations by the oiltest churn, the amount of churnable fat is taken pendent on so many outside influences, such as
temperature of cream. aridity churned, etc., that material inaccuracies are bound to creep in where the method is practiced. We
would strongly advise those still holding. test. The ofl test is a back number - We Ba boock
Produce Review.

THE WRONG KIND OF STABLES
$\qquad$

## Prom a paper by Gilbert M. Gowell, Professor Animal Industry

 Of the elements which enter into the composition of milk-water fat and of milk-water, fat, casein, albumen, sugar serve. It is easily affected by acids or by rennet late. Albumen changes in taste if to coaguheated to 155 degrees, hence pasteurizing milk is sugar is to change to lactic acid The tendency of bacteria, causing the milick to sour the action of that is healthy, and vastly difierent from putne (

The sources of havor in milk are from the food indigestion, time of lactation and individ food, While there is an individualism in the indidualism. cow, which stamps her product as peculiarly her

$$
\begin{aligned}
& \text { own, and she will overcome objectionalle condi- } \\
& \text { tions as regards food, water and air, which for }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tions as regards food, water and air, which for a } \\
& \text { time change the flavor of the milk, she is doing }
\end{aligned}
$$

$$
\begin{aligned}
& \text { time change the flavor of the milk, she is doing } \\
& \text { more profitable work when these conditions are }
\end{aligned}
$$ more pren

normal.
If the food of a cow is suddenly changed, even if it be from poor to good lood, it will interfere
with the quality of the milk. There is no for product which gives such a delicate flavor no food
meal yet ilk. There is no meal, yet, if the cow is unaccustomed to it, if not in sympathy with the food, it will cause a dis-
turbance. So, when the cow is turbance. So, when the cow is turned on the objectionable taste to the milk at first, which dis appears as the cow becomes accustomed to the diet. Hence, whatever change is made in the food, should be made gradually. At the College once without detriment to the milk, but they be gan with a quart and worked up. The bowels be be no tendency to indigestion. Some cows have the peculiari
milk all the time of lactation; others, in six good eight months, will give that which is unfit for
use. Cases have been known whe use. Cases have been known where the milk be pound of butter a day. In the wild cow the milk after a time becomes bitter, and the calf weans
itself. By domestication the milking period has tseen. By domestication the milking period has delayed. Stop milking ten or twelve weeks before calving time and the cow will store up surplus flesh and energy, which she will give down Stripper milk is unfit for use; it is lacking in delicacy of flavor, and, mixed with milk from the
herd, depresses the quality of the whole herd, depresses the quality of the whole. The the
cow, then, must have the purest of air and water cow, then, must have the purest of air and water,
and the cleanest of food.
The flavor is affected. by dust in the air, dust from the cow's udder,
dirty milkers and milking dirty milkers and milking utensils. Not, only it may be affected before being drawn by strong, rank odors in the stable. Dirt, from whatever
source, once dissolved in ten out. ${ }^{\text {once }}$ It issolved in noticed in the builk, cannot be gotcheese. The udder should be washed before milk ing, and it is a good plan to keep the under side touches a delicate phe idea of the dirty milker taken uncooked that too much cannot milk is in the proparation of lhe utmost cannot be said
fore is exercised
fore fore being eaten: at the same time, the milk
served with it, in a rall state, has been most
carelessly hand been most for handling milk. First use tepid water then wash thoroughly in water with a little sal soda
dissolved in it, and finish by thoroughly sold
with with boiling water. At the College the utensils are steamed ior fifteen minutes in a galvanized
tank Vothing will take the place of thorough
washing this ing is ; this must come first always undor strainProf. Cowell is hoping that the time will come
when it will not not fully will noterstone. The value of aerating is food give flavor to the milk volatile oils of the
part of this it is aerated


APPARATUS FOR DETERMINING THE MOIS TURE IN DAIRY PRODUCTS. Whenever a strong demand is made for any manufactured article, that demand is bound to be tesit came out there was a very strong demand for a cheap, rapid and accurate method of determining the fat content in milk and cream.
During the past two or three years there has been a strong demand for a short and approxiamount of moisture in the products of creameries and cheeseries. In Canada this has been more marked since the passing of the Butter Act of butter was placed at sixteen per cent moisture in of Canadian buttermakers have been trying to see how near the legal limit they could go. As they had no means of knowing how close they were to the "dead line," some stepped over. We heard
recently of a firm who last year purchased butter from a Canadian creamery and exported the same to England. The party who bought the butter
in England found it was adulterated with over in England found it was adulterated with over
20 per cent. moisture. It took a good many shillings and a strong effort on the part of the
representatives of the Canadian firm in England to hush the matter up and prevent it getting into the English courts. Had it gone to the courts tation of Canadian butter, which is none too good ${ }^{n}$ now in England. Industry, Washington, A., gives a descrip tion of "A Rapid Method for the Determination
of Water in Butter," by C. E. Gray, Assistant in Dairy Division, Department of Agriculture. used by anyone except officers and employees b the United States. Users in Canada must pay royalty for the right to use the method.
The appanatus consists of a balance, 5 and 10 grain weights, a 6-c.c. graduate, gas-burner o special apparatus for collecting the moisture, and an amyl reagent. To make the test, prepare a sample of butte by melting it in a jar at about 100 degrees $F$
Weigh ten grams of the butter on a piece of parch ment paper, and transfer to the flask. Add $6 \mathrm{c} . \mathrm{c}$ of the amyl reagent to the butter, connect the apparatus, and fill the condensing jacket with coo
water. Place the apparatus over a flame, and water. Place the apparatus over a flame, and
apply heat to the bottom of the flask for 5 to 8 minutes. When the mixture in the flask becomes
a brown color, and all the crackling noises in a brown color, and all the crackling noises in boiling cease, all the water has been driven from
the sample. At this stage disconnect the flask pour the water from the condensing jacket, invert the graduated part of the tube, with stopper in
and separate the water from the amyl reagent by and separate the water from the amyl reagent by swinging the tube sharply downwards from a hori
zontal position. Read the contents as soon as cool, by reading to the lower part of the menis cus. To make a determination, including weigh-
ing sample, requires from fifteen to twenty minutes.
One advantage of the Gray method over the Beaker method, as described by Richmond, in which a given. weight of butter, say 20 grams, is
heated directly over a flume, is that the actual heated directly over a flume, is that the actual
amount of moisture in the sample is collected and may be seen and measured by the operator, whereas in the Beaker method the moisture is de-
termined by difference in weight after heating termined by difference in weight alter heating for average creamerymen to operate. Whether o not either of these methods will meet the de
mand, remains to be seen after actual trial in mand, remains to be seen after actual H. H. D.

BECAUSE OF, PROF. GRISDALE'S IMPOREditor ". The TUNITY
Editor "The Farmer's Advocate" "
I cannot give an experience of value, but might I cannot give an experience of value, but might importunity of Prof. Grisdale, who would give no
peace until we started weighing. Once started peace until we started weighing. Once started,
we would not think of giving it up, as the herd we would not think of giving it up, as the herd
is improving rapidly by the proper culling which
the records mate the records make possible. For a record of the
cows' work, we weigh once a week, which makes accurate as necessary for practical work. When ing capaeity, we weigh every day, and find the possible to do so, weighing the milk daily through-
out the year is the best course to follow, as it ures better treatment work of the cows and in sures better treatment and more profitable re
turns, but, as a help in culling out the boagders
tweekly weighing is satisfactory. Experience has weekly weighing is satisfactory, Experience has
hown me that it is unjust and useless to pass udgment on individual cows without keeping a Pictom, N. S.

## THE FARMER'S ADVOCATE.

HOW TO MAKE DEVONSHIRE CREAM A leaflet by the British Board of Agriculwhich the art of making Devonshire cream is set florth, so that every dairy farmer may prepare the delicacy if he will. The writer remarks that Devonshire cream is strongly recommended by the medical profession as an excellent fatty food, and is displacing, to some extent, the use of codliver oil amongst invalids. Devonshire cream is 60 per cent. of fat, and this fat is of a more digestible kind than any other, being present in the cream in a finely emulsified condition. In the preparation of clotted cream, it is desirable to use rich milk, such as is produced from the Chan-
nel Island breeds of cattle; but this is not essential, and the evening's milk from Shorthorn cows will produce very good cream indeed. In Devom and Cornwall clotted cream is largely made from
the milk of Devon cattle, which are adminably the milk of Devon cattle, which are adminably
suited for the purpose. Crosses with Channel Island cattle are also commonly employed.
he cream is prepared as follows:

1. Whole milk, warm from the cow, is carefully
trained into setting pans. The able for the purpose hold about six quarts of milk, measuring 15 inches across the top, 7 inches in depth, and 11 inches across the bottom; they are, in fact, similar to shallow pans, only deeper.
2. The pans of milk are left undisturbed in a cool dairy for the cream to rise. In summer,
twelve hours or less is the time allowed, but in twelve hours or less is the time allowed, but in
winter twenty-four hours is usual. 3. The pans should now be carefully removed
and scalded, great care being taken not to disand scalded, great care being taken not to dis-
turb the cream on the top of the milk. Scalding


Comely Lass
A typical English pedigreed dairy Shorthorn, and a well-known winner
water stove, and allowing oteam to play upon they have attained a temperature of 175 to 180 degrees $F$., when they are removed, and either allowed to cool naturally, or are cooled by placing
them in a stream of cold running water. The scalding should not be done too quickly, otherscalding should not be done the quacteristic scald flavor is not produced. The heating may be carried out by placing the pans on a kitchen range or hob, but the
hot-water method is preferable. 4. When cold, the cream may be taken off in a
thick, clotted condition, and is ready for sale. In thick, clotted condition, and is ready for sale. In
summer it is especially advisable to cool the pans as quickly as possible after scalding, as this insures extra keeping properties.
The cream is generally sold by the pound. One pound of cream may be obtained from 1 it gallons of Jersey milk, or less, whereas nearly two gal-
lons of Shorthorn milk may be required to prolons of Shorthorn milk may be
duce the same quantity of cream.

## KEEPING INDIVIDUAL MILK RECORDS.

Editor "The Farmer's Advocate" ${ }^{\text {I }}$. aept individuat records of the milk of each cow we were milkin during the years 1901,1902 and 1903. I con, ,enced keeping them at the request of Mr. Grisdale, of the Experimental Farm at Ottawa, and reported monthly to him for the per month, also the kinds of grain we were using; and, as long as the conditions were favorable,
kept up the taking of individual records. It was kept up the taking of individime it was a profitable way of knowing exactly what each cow was ding, and the only reliable way of building up
a dairy herd. The last year we kept the records. a dairy herd. The last year we kept the records,
1903 , we milked twenty cows, and received $\$ 930$ for the milk for eight months; and the first year,

1901, milked the same number of cows, end received $\$ 452.37$. Of course, milk was worth more, but not enough to account for that difference.
Prince Edward Co., Ont. LEWIS P. HUBBS.

## POULTRY.

## THE POULTRY SESSION AT OTTAWA

Mr. A. G. Gimbert opened the ponitry seesion at the Eastern Live-stook and Poultry Show with
an address of an hour's duration, devoted largely to an addrest of an hours auration, his twenty odd yeare supervision of the Poultry Branch of the Central Br perimental Farm. He recalled the commencement ol winter-egg production at the Station, and the dimeul ties which had to be overcome in building up winter
laying strains, which he clatmod wero meeeseery in adil laying strains, which he ciaimed wers neor In order to get winter eggs, highl artifcial conditions were re
sorted to, the effect of whith was found to be the weaksorted to, the effect of which was found to be the week-
ening of the vitality of the stock to auch an extent ening of the vitality of the stock to such an extent
that good hatches in early spring were found tmposthat good hatches in eariy spring were lound and the the lessons were quickly, learned, and the soratohing-shed, with abundance of fresh alr in the houses, were brought into requisition. These, with flocks of habitual winter layers, retained the the egg and good hatohes in March. For ventilition, Ir Gilbert recommended cotton-covered forms above ard diflusion of fresh air without dratt, while the glame ad mitted the sun's rays, which were very necessary in cold climate. The scratching-shed, Mr. Gribert amr th is going out, its place being elfectively taken by the straw during the winter season.
The feature of the poultry session was an addrees by Mr. F. O. Filord, former Chlef of the Dominion Pouitry Division, and now
manager of the Poultry Braneh manager of the Poultry Branch
of the Macdonald Agricutturral College at Ste. Anne de Belle vue, Que. His subject wal
vHow many hens may be pro fitably kept on the average hundred-acte ferm ? ". Mr. E1-
ford placed the number at one ford placed the number at one hundred, which, if proatably se lected and cared for as they
ahould be, would bring to the farmers of Canada twice at much revenue as the entire whee orop of 1905, is sold at one ollar per bushel.
The flock, the apeaker con-
should consiat of 75 tended, should consist of 75
pullets and 25 hens of the previous year's hatching. It wat claimed that for egg production
ton pullets were about equal to en pullets were about oqual $t$
eventeen two-year-old or twenty five three-year-old hons. Irr. E! ford recommended breeding from yearling hens that as pullete hed
proved themselyes satifectory proved themselyes satisfactory
winter good layers he use
trap nests and log bande Yiberates ench hen from her trap neat he miatis to liberates each hen from her trap nest he marlis he five of the best-shaped hens that were good winter lay ers as pullets are selected by Mr. Butord ${ }^{2}$ as the breed ing flock
Discussing the question of feeding, Mr. Eiford stated that the use of common sense was of greater impo tance than the balanced ration. A winter layer in variably possesses a good constitution, and can mako
good uegof food il not balanced in accordance good ute of lood it not balanced in accordance wit stated, miutit be introduced gradually and with Jude ment. He is using it to some extent this winter, but bran is the chief loed fed from the hoppert.
Mr. Ellord has under his charge 250 hens in colon
 roof, the space between being packed with straw. Many the hens laid since the middle of November from 40
to 60 eggs each, even though the temperature went to 60 eggs each, even though the temperature went at
16 w as 18 degrees below zero. About a score of the lock had not commenced to lay by March lat, an these will loose their heads as a penalty. On cold nights a curtain is let down in tront of the rooats.
He has had no sickness in the fook during the ontin winter. In reply to a question by Mr. Wm. Meliofl of London, Mr. Empord attributed the good heelth o selected in the fall, to wholesome tood and abundamce of fresh alir.
Mr. W. R. Graham, of the Ontario College, relerred to a lew investigations at the Colloge in 1906. Ho water rearing late-hatched chiceen on leed withou em. The chiclens hatched in July were enclosed in wire runs in a field of growing corn, and fed by the opper system on dry wheat. All the moliature they among the corn. The chicks at elaht weeks growing up among the corn. The chicks at delght weeks old weifghed
2 lbs . each, and cost less than four cents per pound of
gain. He does not agree with the idea that pullets
are always the best layers. One three-year-old hen at
the College laid 56 .eggs during JJanuary and February.
A hen five years old laid remarkably well during these
months. He recommeided retaining the known good months. He recommended retaining
layers even until four or five years ol

SOLD NEARLY A DOLLAR'S WORTH OF EGGS PER HEN IN FOUR MONTHS
Editor
I se
I see in your valuable paper from time to time 45 pure-bred Barred Rock hens andipullets. I have started laying in December, when we soid The 174 eggs for $\$ 4.77$; January, 474 eggs for $\$ 11.72$;
February, 504 eggs for $\$ 11.92$; March, 708 eggs February, 504 eggs for $\$ 11.92$; March, 708 eggs
or $\$ 15.55$, making a total of 1,860 eggs sold for $\$ 43.96$. This does not include what eggs we used in a family of six. I did not take agny extra oare of my hens; I only fed hard grain, wheat,
corn and oats, and gave them all the coal ashes from the house. and gave them all the coal ashes
H. M. CAMPBELL.
$\qquad$
GARDEN 喑 ORCHARD.
HORTICULTURAL PROGRESS.
Prepared
for ". The Farmer's Advocate" by W. T.
the Cabbage maggot and other in
The Cabbage Maggot and Other Injurious In mologist, Agricultural Experiment Station, St. Anthony Park. Minn.; Bulletin No. 100.
The cabbage maggot is one of then
troublesome insects which is one of the most to combat, and the results of any experiments to determine the most practical way of controlling it are eagerly sought for by vagetable-growers
where this insect is found. In 1906 over twenty where this insect is found. In 1906 over twenty
different experiments were conducted by the Entomological Division of the Minnesota Agricultural Experiment Station, the experimenters evidently
trying everything that had been recommendel trying everything that had been recommended by
others, and some devices of their own as well. others, and some devices of their own as well.
The most pratical and satisfactory remedy
appears to have been white hellebore and appears to have been white hellelore and water
"The roots of 44 cabbage plants were dipped June 23 rd in a mixture of hellebore were dipped hot water 2 parts
belore plants were treated, and they were im-
mersed deep enough to also coat the lower part and made an excellent showing. ()n October 1st every plant was standing.
a very practical method,
bulb of earth about the root
mental Farms, published - in
Fletcher, Entomologist and Botu
the use of hellebore as follows
watering around the roots afte
with an infusion of pyrethrum
1 ounce in a gallon of water,
transplanting, and again a week later
Sawdust and glue also gave good
first time that this has been believe this is the frst time that this has been tried. "Sawdust half pound of the former to 1 proportion of one-
ter. represent at least 2 not at all thick, but must represent at least 2 pounds of hard glue in 1 gallon of water, and the mixture had about the
consistency of chicken feed, though rather more sloppy. It was applied warm with the hands above the base of the plant, but well up on the stem, the diameter of the mass where it came in
contact with the ground being One quart was sufficient for fifteen plants. The stuff quickly hardened, and though it softened somewhat during the summer rains, it did not disintegrate after the rain. It was applied to
twelve plants on June 5th, and was still in good condition on June 22 nd. . The was still in good
mo treated made an excllent showing. A man can treat six to eight plants per minute. This treatment
would be hardly practicable on a large acreage." Carbolic emulsion, which has been recommended for the cabbage maggot, was not found very satistactory. If the emulsion is in contact with the
maggots long enough it will kill them, maggots long enough it will kill them, but when
once the maggots are in the stalks it is difficult to reach them. "Young maggots lived in the laboratory for two hours and twenty minutes water), and adult maic emulsion (1 part to 30 o and forty minutes." ${ }^{\text {maggots required three hours }}$ injures very young plants.
Some of the other
lime, disturbing the eggs ties tried were, milk of eggs away from plant, sand and kerosene, aceatate of lead, moth balls, trap crops, tar-paper disks. None of these were found as satisfactory as helle-
bore and water An interesting
that the maggots were much less troublesome in open or rising ground than where the wind was checked by woods. "The number of maggots in-
creased in direct proportion as the protectin woods were approached. The noticeable fact about the positions of the patches is that the
filies took the cabbages (they much prefer cauliAlies took the cabbages (they much prefer caulito going farther into the wind and in preference cauliflowers.
cabbage planting of radishes and turnips amongst as the insects destroyed the attack on the latter, radishes and turnips
An interesting account is given of the lifelowing of the cabbage maggot, of which the foleggs are laid by a small fly, which deposits them In a crevice between the soil, and the plant near flying, may lay them the month of May, and, set. The eggs are deposited in such plants are they are not visible when laid. The largest num ber1 of eggs found about one cabbage plant was ten, and about a cauliflower plant twenty-two. the cggs are laid, and live for about thre days after after which they pupate, and the second brood of
fies emerge in from thiteen to fifteon flies emerge in from thirteen to fifteen days."
Some experiments in the use of hydrocy acid gas are recorded. It was found that from
29 seconds to 4 mind ping of the to 4 minutes elapse between the drongas, the time depending on the geat off of the and the thickness of the paper bags with the charge. "One can depend upon
seconds when double sacks are used."
It was proved
It was proved that no fumes which are fatal Another bulletin which appeared are same time, bears the title, "The Cabbage and Onion Maggot"-Bulletin 200, New Jersey Agriand Edgar L. Dickerson. The life-history of the and Eagar L. Dickerson. The life-history of the
cabluage and onion maggots are described, and
experiments enumerated for their experiments enumerated for their control. The bolic acid and lime, kerosene and sand, powdered
tobacco, and gle, carbon bisulphide, carbolic-acid, emul. tures. From the results of the experiments tried
it is rect there have been no maggots the previous year land that is clean or has had previous year, or
to enable the insects to be carried over the on it Plant as late as possible to avoid the insects.
which come out early, and must lay their almost at once. Fertilize the plants with a
quick-acting fertilizer, to give the plants a good
start start. One that is recommended is made in the
proportion of nitrate of soda 700 pounds, acid
phosphate 1,000 pounds, muriate phosphate 1,000 pounds, muriate of potash acid
pounds. When feasible, plant a trap crop earlier
than the main crop for the insects to lay their




```- onion maggot was experiments in combat-
```

a sprinkling can or spray nozzle, was very the
ough, so that the material formed ground around the plants, and the odor the lime perceptible for several days odor of the gallon of water, and cream, use three pints to ful of crude carbolic acid. Apply along the roonas already mentioned, getting it well around the plants. It forms a covering thro coated to the young maggots are not able to penetrate to the their food. The young plants seem to find no Apply immediately after the the lime coating. appear above ground, and make the first and applications five days apart, the later ones not more than a week, and continue for a month; at recommended, also.

GRANTS TO ENCOURAGE CO-OPERATIVE POWER SPRAYING
or the past two years, plans for further assisting the fruit-growers oi
the Province. ducing a superior grade of fruit become, in proportant operation of the year, and, while widely practiced in certain sections, has not yet been siven the attention that it requires in the apple
sections. The advent of the power sper such recent date that the advantages it pecially in the spraying of apple orchards, is not For many years the Department of Agriculture has been advocating more and better spraying. fits, and the preparation and application of the most effective mixtures, have been given through is now felt that such information has been suff ciently difflused, and another step forward is pro-
posed. The Provincial Fruit-growers' Association has, ing a large number of fruit-growing associations One of the aims of these associations has been the bers, and it is now proposed to assist their memkindred organizations in such sprayinge and With this aim in view, the Minister of Agriculture has asked the Legislature for a grant of $\$ 6,000$ in the purchase and operation of fruit-grower outfits. Many associations already own and are operating such machines, and these will receive
the same aid as those the same aid as those organizing during 1907 able have been made as simple as possible, with the hope that a decided stimulus will be given to the proper spraying of orchards during this and
coming seasons. Following are the ris covering the payment of the are the regulations A grant of $\$ 50$ will be made to
more farmers who unite to form a fruit-growers association, for the purchase and operation of a
power spraying outfit during the seas of
Then These spraying outnt during the season of 1907
These associations need not be incorporated qualify for this grant, though incorporation of co-operative associations is advisable.
Co-operative fruit-growing assocition
ing and operating two or more power ans ownwill be eligible to draw a grant for each machine The number of such associations receiving as-
sistance during the present year shall not one hundred. oughly sprayed acres of fruit trees must be thorA reasonable proportion of such spraying must
be done on the farms or orchards of each of the parties forming the association.
Such associations, before receiving any porfion of the grant, shall satisfy an inspector of the tions have been complied with, and shall make
such reports as shall satisfy the Minister of AgriAssociations desirous of participating in this
grant must apply to the Department not later than the first day of May. Department not later

ETHER AS A PLANT STIMULANT In reply to a letter of inquiry from ". The
Farmer's Advocate," anent a newspaper clipping,
in which prof Ithaca, N. Y., was said to Cornell University markable results in forcing plant growth by the use of ether, Prof. Craig says: "It is true that We have been experimenting with ether as a cors, and it is also true that we have secured some interesting results. It is not true that we because the method has been as an original idea, because the method has been employed in Europe have no recomg of of its ber some time, but we
of ased for the forcing

THE ADORNMENT OF RURAL HOMES By Prof. fully neglected in many cases is the condition o nome surroundings. Partly is this due to the
lack of information, partly to uncultivated taste, and partly to inertia. We desire to furnish the information, cultivate the taste, and stimutate the efiorts of our readers py publishing a terse, practi
With the foregoing remarks, the editor prefthe above subject. In responding to the re quest, we fully appreciate the need for more at
tention to this matter, knowing the great differ ence it would make in the joy and comfort o to it. it was quite natural that in a new country, such as even the oldest pirts should we to put buildings, clearing his fields, and subduing the surrounding forest. These humble dwellings, as they stood out in the clearing, sheltered and protected
by the natural forest, were indeed homes to be by the natural orest, were indeed homes to be
proud of. They spoke volumes for the industry and thrift of the sturdy pioneers, but as time has gone on the trees have disappeared, and the cases the pioneer buildings have been succeeded by more pretentious ones, but little or nothing has been done in the way of replacing the trees and these places are now bleak, treeless, many cheerless these hardly worthy of the name of home. Is it to be wondered at that the boys find no inducement to remain on such farms? I verily be lieve that one very import factor in making the improvement of home surroundings. We do not need to inquire about the intelligence and thrift of the occupants of these neglected places, for the appearance and surroundings of a home
are usually a fairly good index to the intelligence and progressiveness of those who live in it. It is pleasing to note that among progressive Canadians, both in the country and town, there has attention to home improvement. When property owners appreciate the fact that
the small outlay for trees, shrubs and vines, and the comparatively little labor required to put an keep a place in an attractive condion, adue of the
fifty to one hundred per cent. to the value property, then they begin to realize that improvement of this kind pays, even from a dollar-
and-cents standpoint. and-cents standpoint. For the sake of the fam-
ily. for the sake of comfort and convenience, as well as from a financial standpoint, home improvement is a paying investment.
One of the first things to be remembered in improving an alace, or laying out a new one
is that the adornment of the place should not $b$ confined to the little block of land hemmed in by four fences in front of the house, and known as
"the front vard." The improvement should be planned on a larger scale, and should include not only the front yard, but back yard and the entire farm. Probably one of the greatest hindrances to such improvement has been the idea that the
front yard should be fenced off from the rest of the place, and that the little bit of ground devoted to lawn must all he cut with scythe lawn mower. In improving the surroundings
a home. usually the first thing to be done is a home, usually the first thing to be done is to
remove all unnecessary fences-and it is surprisremo how few of them are really necessary-cut out dead or crowding trees. and clean out untidy
corners. The grounds should then lie laid out on corners. The grounds should then le laid out on
ordinary farm mower in keeping the grass cut, Care should be taken in sowing to get an even not only in the front and back yard, but all distribution of the seed, and it should be done on around the buildings and up and down the drive a still. day, when the wind will not bine ground
and roadsides. In most cases it may be found the lighter seeds. After seed, ng, the gren hecessary to plow up and properly grade the should be gone over lightly with a rake to cove grounds about the buildings and along the road- the seed, and, if the soil is dry, it is best to
ide. It is far more satisfactory to have this thoroughly roll it. This insures quick germinaside. It is far more satisfactory to have this thoroughly roll it. This insures quick germinadone properly than to attempt to keep in condi- tion of the seed and leaves a light roller by hand,
tion grounds which are not well graded. The is better to make use of a lige grounds should slope away gently from the build- rather than use horsses, which are likely to leave ings to insurg, good drainage. It is not necessary deep tracks in the mellow soil. The first mow nor desirable to bring the land all to a uniform ing had also better be done
level. If the grounds are somewhat rolling, the scythe, until the sod gets tough enough that it level. If the grounds are somewhat rolling, the scythe, until the sod gets tough of the mower; general deaf level. All little inequalities of sur- but after two or three months, when the sod has face. however, should be levelled off, so that the become firm, the mower may be used freely. Any nower can be used conveniently. In grading, as possible, and the
knives kept sharp,


An English Country Home
An English Country Home.
Note the winding drives; the vines; the lawn, and the natural arrangement of $\begin{aligned} & \text { The maip drive } \\ & \text { should enter at the } \\ & \text { side of the grounds, }\end{aligned}$ the trees.
where any deep cutting has to be made, good sur face soil should again be put on top to insure a are planted upon it. After the ground has been well worked up by done by means of a drag or float which will leave a smooth surface. As a final preparatiom for seeding, however, nothing can be used which will leave the ground in better condition than the to attempt to go over an acre or two of lawn but it should be remembered that this work is being done for all time to come, and it pays to
do it well. The best mixture with which to seed down the lawn is made of equal parts, by weight, of Ken-
tucky blue grass, red-top und white Dutch clover To insure getting good clean seed, these may be bought separately and mixed at home. This mix-
ture should be sown at the rate of about measured bushels per acre. In seeding down for a lawn, we want the grass to grow as quickly as possible, therefore much heuvier seeding is re
quired than when seeding for hay, where each quired than when seeding for hay, where each
plant has more or less room for development
may be used to keep the lawn in excellent conting can be done irequentid
enough to avoid
necessity for fukinn necessity for makins
ofi any cut gras,
so much the better so much the better
but if time cannot but spared to do this often, it should be
mowed at least once mowed at least once a month-during the the grass raked of Where one, wishee
to have a croquet a wh or tenni
court, a small por tion of the lewn may be closel clipped for this pur
pose by means of a
hand mower hand mower. One of the important items in
laying ou t. the
grounds about th grounds about the
home is the proper
ocation drive and walks. and not cut acr hould
towards the building as thiough it were the easiest natural means of approach, on it may run fairly owards the dwelling in passing, It is need less to say that the drive should be properly graded, that all surface water may run of readily;
and, if good gravel is available, it: should be gravelled, so that it will dry of quickly. It is well to avoid having too, many walks around the buildings. Those necessary usually locate themselves through the daily travel, and, wherove
walks are necessary; they should be made dry and clean, to avoid carrying dirt into the house. In our next we shall treat of the seleetion and planting
home.
man in Northumberland Co. Po red K. Sober, has a large chestnut grove, where. ho had grafted about 400 acres óf wild-chesinut land o the cultivated Paragon chestnut. The grafted ow came into bearing very young, and ar ing $\$ 5,000$ ing heavily, the sales last year returning $\$ 5,000.00$


Room for Improvement
ty and dilapidation of fences : fence-corners full of


A Picture of Neatness on an Algoma Pioneer's Farm.
absence of unnecessary fences; farm mower used close up to buildings ;
hardwood bush for shelter : vines and flowers near dorw

## A HINT TO ORCHARDISTS.

It has been truly said that success in anything is, attained only by careful attention to detail, and that the thing which we call "luck" naturally arises from an observance of this rule, which is, is this true in agricultural work. Carefulness in overy phase of labor is always repaid by increased returns. Inattention to detail in fighting the insect enemies of the garden and orchard will, in some cases, almost annul our efforts. Neglected fested fruit lying about, will greatly lessen the good effects of spraying. Another thing to which too little attention is paid, also, is the matter the wild or native trees growing around the orchand. Iet us notice the dangers of leaving these MOUNTAIN ASH ( Pyrus aucuparia. European) -This tree, fortunately, is not native, but, owing to its beauty as a shade tree, is sometimes planted near houses not far from the orchard. An American species (Pyrus Amerioana) also grows greatest size upon the north shores of Lapk Huron and Lake Superior. This tree, both forms of which are nearly identical botanically, is very its most dangerous insect enemies, Among the insects found infesting it may be mentioned the ollowing: Scurfy Bark-louse, Bud Moth, Case touse and the dreaded San Jose scale, the Amerioan Teat Caterpillar and the Cankerworms. Such a tree as this, planted near the orchard and negected, as such trees too often are, will harbor become too numerous for the trees in which they ilve, wit pass without tany difficulty to the WILD PLUM
of our native trees, and is Americana). -This is one of our native trees, and is not uncommon in On
tario. It is attacked by the Plum Lecanium and other scale insects, which suck the jucanium and
thee ; the clover mite, which tree; the clover mite, which feeds upon the leaves
of the plum; and the two very serious diseases, Plum Pockets (Exoascus pruni) and Brown Rot (Manilia pructigena). Under the influence of the former (Plum Pockets) the plums develop into
useless structures, wrinkled and dry, and without astone, hence receiving the name, "plum pockets." This disease, once fairly established In a tree, is practically beyond control, as the mycelium of the fungus hibernates in the tissue of The only remedy is pruning back the perennial diseased portions, and generally the best plan is to re move the diseased trees altogether and burn them. The other disease (Brown Rot) first attacks the
eaves and then the fruit, reducing it to a useless, mummied condition. The fungus does not pre ent such difficulties in treatment as does the have affecting fruit trees. These diseases infest wild and cultivated plums, and the Brown Rot also infests apples, so that they may be only too Willy carried to the orchard.
WILD CHERRY. Black Cher
tima: Choke Cherry (Prunus virginiana) ; Pin or
Bird Cherry (Prunus pennsylvanica).
These three trees are among the most common growing near the orchards on many farms, and scarcely a wild cherry tree which is not covered with the webs of innumerable American Tent Catand which spread with extraordinary rapidity through the neighboring orchards. The cherry is also attacked by the Brown Rot of the plum to some extent, and the Shot-hole Fungus (Cylin-
drosporium Padi), which attacks many of our arosporium Padi, which attacks many of our
truit trees. causing circular spots in the leaves,
which rot and drop out. Such diseased leaves which rot and drop out. Such diseased leaves
fall early in the season, hefore the formation of woiod has ceased; consequently there is a poor crop of fruit the following season.
Many other insects and fungous diseases attack
the wild trees around the orchard. The Barberry the wild trees around the orchard. The Barberry
(Berberis vulgaris) might also be mentioned in this connection as harboring the excidium stage of the wheat rust. Everyone has seen the little spring, and although it is believed that the wheat rust can reproduce without this stage, neverthelong and how vigorously, that it is well, in any
ovent, to dispense with the barberry, as its reoveval can be enforced by law.
The examples given will serve to show the danger of leaving these trees neplected in the
vicinity of the orchard. The usual sprayingParis green for biting in
for sucking insects, and
fungous diseases-may be used upon these trees
when infested, but by far the best plan, when they Wheom inferted, but butly aflected,
most

WASHING TREE TRUNKS
Am thinking of "scraping" my trees (apple) and then washing the trunks with lime or whale-oil soap.
Wrould you mind telling me if there is still time for these operations, and which material is best for the pared in one mixture together, with advantage?

I would like to ask what is your object in scraping and washing the trunks of the trees? I am afraid than it really deserves, and neglect the more important operation of spraying the whole tree. Scraping off loose bark and washing the trunk with lime may be beneficial in destroying the hiding places for a number of insects, but it will not keep in check a number of
more injurious ones which work upon the smaller branches, such as oyster-shell bark-1ice, aphides, etc. There would be nothing gained by combining the lime
and whale-oil soap; either one or the other should be suffient for a wash for the trunks, either would be to spray the whole tree thoroughl with the lime-sulphur wash. This mixture is one o the most ellective in destroying the oyster-shell bark
louse, and is also good as a fungiclde in destroying spores of applo scab which may be resting upon the branches. About this time there is no doubt thou sands of barrels of this wash is boing applied to
orchards in the Niagara District. The formula for the orchards in the Niagara District. The formula for the
lime-sulphur wash is 20 lbs. fresh stone lime, 15 sulphur, and 40 gallons water. The sulphur is made into a paste with a little warm water, and the lime is slaked and added while hot to the sulphur, and the
whole made up to about 15 gallons. This should be thoroughly boiled for about one and a hall hours, eithe over a fire or by means of live steam turned in from a boiler. After it is thoroughly boiled, the mixture can be made up to 40 gallons, and should $\begin{aligned} & \text { be applied wit } \\ & \text { a spray while warmo. } \\ & \text { Ontario Agricultural College. L. HUTT. }\end{aligned}$ H. Ontario Agricultural College.

## ONION CULTURE.

The onion crop is one which, when everything is favorable, will give larger net returns per acre farm. A dollar a bushel used to be thought the standard price, and is sometimes exceeded even
now, but the average price has fallen to about sixty or seventy cents. Still, even at sixty cents per bushel, a crop of three or four hundred bushels per acre gives, a large money return. In crop, and large quantities are grown, sales are easily made. If buyers can pick up car lots, they except in the neighborhood of large cities, the other objections to their culture as a farm crop ought to be considered before anyone goes in for raising onions. First, the labor involved is very and second, land needs to be specially suited or fitted before they can be grown profitably. The onion requires a liberal amount of plant food in quality of manailable form. The quantity and cabbages or many other warden make potatoes, will not.give even a fair compensation in onion culture, unless favored by soils highly fertile in y , perhaps srom lack of appreciation frequently, perhaps, from lack of appreciation of this
fact than from any other cause. Soils abounding in decomposed vegetable mat-
ter are generally most valuable for the cultivation of onions. Heavy clays or sandy and espesoil is one that is rich, not liable to bake, and that will withstand drought well. Where weeding is such an expensive item, as it is in onion
culture, it goes without saying that ground should not be used until it has first weedy cloanded by eibebessive hoed crops. As a preparation of the soil, a favorite practice in some sec-
tions is to sow clover, cut the frst allow the second to rot on the ground, and apply fall. The following spring plant potatoes, and the next year grow onions.
Fall-plowing is recommended, especially for
clay soils, and in all cases a heavy coat of yard manure should be turned under. Rotted manure is better than fresh, and too much can
scarcely be applied. Seed shoulted scarcely be applied. Seed should be sown as
early in spring as the ground can be worked. If the ground has been fall-plowed, surface-working
in spring is sufficient harrow, smoothing harrow and rulter or clod cor
crusher should be freely used until the crusher should be freely used until the seed-bed is
very fine and smooth. very fine and smooth. Seed is generally sown
with a hand drill in rows twelve to fourteen
inches apart, if cultivation is to be done by hend inches apart, if cultivation is to be done by hand.
If horse cultivation is intended, the distance
should be increased should be increased to sixteen or twenty inches.
About four pounds of seed per acre should be sown. May Mry of seed per acre should be
regulating the thickness of thever thin the plants,
reop by the regulating the thickness of the crop by the
amount of seed used, the aim being to have one
Ilant to every inch. It is probably better to
suw a little more thickly, and thin to an inch and
a half. From half to three-quarters of an inch is the proper depth for the seed. should be commenced, and, until the cultivation well grown, can hardly be overdone. For are culture, the wheel hoe is indispensable, but wher a horse can be used, the spike-tooth cultivator, after the plants are of thinning size, does a better
job, and is very much quicker. With all can be done by implements, one or two weeding by hand, or with a hand tool, will be necessary This is what takes time, but one has just to pad come in most useful row, and go at it. Boys vicinity of towns, can generally be hired. in the ing, pulling onion-tops are mostly brown and dry ing, pulling should be done. Three or four row are ready to be rathered in ten days is dry weather is unfavorable, some growers find it profitable to cure them under cover.
Onions, by liberal fertilizing
year after year upon the same groun be grown creasing yields. Rotation is generally with in
advised however, particularly where the onion magrot and onion smut are prevalent. For the former, noth ing else seems ias yet to be an effective remedy. ported. From five hundred bushels per been re to eight hundred, and even a thousand, are claimed to have been raised. A yield of three fair average crop. alter all, a pretty air average cro

## APIARY.

## VICTORIA CO. BEEKEEPERS' MEETING.

The annual spring meeting of the Victoria County Beekeepers' Association was held at Little Britain on Good Friday, and was much enjoyed y all who were present, a number of very inter esting discussions following the several papers Mr R F. Which were on the programme. erred to several mote, sociation which he hoped to see the local Asnear future. One subject he touched on is of inidea of having several associations. It was the tions arrange to have their meetings associa-gether-within a day of each other-and hear them club together to have some noted beekeeper brought to their district to address their meetings, giving an address each day for perhaps
three or four days. In this way the expense would not be nearly so large as if each expense tion brought in a man of its own account. The
subject is worthy of consideration by the memhers ubject is worthy of consideration by the members Mr. J. L. Byer, of York. Co., Ont., who is an spoke of his success (or failure) in outdoor winterng during the past winter. He had bought some
bees in hives with double walls with several thick nesses of paper between them, and left the bees without further protection, as these hives were supposed by their builder to be sufficiently warm forty per cent., the hives showing little was about sults than if they had been single-walled. Mr.
Byer is Byer is more than ever convinced of the portance of plenty of packing both on the sides
and top of hives to be wintered outdoors. He and top of hives to be wintered outdoors. He
also considers the Langstroth frame too shallow for best results in outdoor wintering, unless filled solid with honey, so that the bees may have
enough to keep them through the winter without enough to keep them through the winter without
being under the necessity of moving acress frames, which they cannot possibly do in in very
cold weather. Others who had had the matter were of the same opinion. Mr. John Timbers, of Ontario County, was present by special invitation, and read an excelHoney," a paper which, if followed to the letter
by every producer of honey, would big every producer of honey, would make a
improvement in the honey market in a very liew years. The chief points referred to were. Good body (having the honey well ripened by the bees); good color (using only white comb in the
supers); flavor (clean comb, and no mixing honey from different sources); finish mixd aroma He urges the cultivation of the local market, and thinks beekeepers should never sell honey on com-
mission, backing up his statement by telling of the condition in which he saw a prominent beepublic in a big commission house in Toronto-the Mr. E G Hand Victori the system practiced by him for handling bees through the honey seeson, without much work and
no watching, a course made necessary by lack of no watching, a course made ne
time to spend with the bees.
time to spend with the bees.
These papers were discusse These papers were discussed at considerable
length, and a number of good ideas exchanged.

President, Mr. E. G. Hand, Fenelon Falls; Secre- auction sales now taking place. Tt is well-nigh im-
tary, Mr. A. H. Moble, Cresswell. The matter of posibibe to buy cows except at those sales, and they
the time and place. cary, Mr. A. .
the time and
the executive

THE FARM BULLETIN
SEED, DOGS, AND OTHER MATTERS
the seed fair held in Summerside, P.E.I., His
 offered at this show for that good old variety of po-
tato, the McIntyre or Blue, and they certanty cato, the McIntyre or Blue, and they certainly were a
credit to the show. Notwithstanding all the torlat against this good old potato, and likewise in favor of
the Green Mountain, and other white and red varieties, the buyerr who are now busy bagsing and loading
potatoes ready for market are quite satisfled, yea, anxpotatoos ready for market are quite satisfed, yea, anx-
ious, to hande. nothing but the Mclntyre. The farm-
jos or this other varieties for a great many years, and in almost
very instance the vield is in fayor every instance the yield is in fayor of the McIntyre.
especially of the marketabie tubers. Many excellent samples of grain of all kinds, as well
as grass seeds, were shown at the fair, and as a result orders are coming in thick and fast to the exhibitors
for lots for seed purposes, and they are willing to pay
 twoen the price of good and poor seed. The good-seed
meetings which were held throughout the Island during meetings which were held throughout the Island during
the past winter, have done much to convince the farmer of the importance of good seed. It is unfortunate that
the Government Seed Act did not come into force some years sooner. Our Province has been made a a dumping
ground long enough for all the poor or refuse seed of Upper Canada, until many of our best farms are over-
run with weeds, and some very bad weeds, that seem
 most imposible to buy poor seed. Perhaps the worst
weed in this locality is a variety of chick weed. It has an small
white-eye. In the early summer many fields look as white as snow, and where this weed has got a good
hold it smothers out everything else, and it spreads very rapidly.
Now a word in defence of the poor abused dog. Every Parmer who owna a goon collie oog would rather
part with his best fillk cow than that dog. A good well-trained dog is a very valuable animal on a form
he can save his master many steps I fo not advo cate eltting a dog conase the cows to the barn every
milking time, but it is all right to take the dog with you when you go for the cows, and all that, you need
say when you open the gate is, ', Bark, LLion," and the up and start for the stable. In this country a great
many animals are turned out in the woods and highways in summer to get their living, notwithstanding
the fact that there is a law to the contrary, and the larmer who is fortunate enough to own a good dog io
saved a lot of annoyance. of experience about this stock nuisance, and the yarc
gate we use is a good collie dog. Because some for-nothing scrub-mongrel-curs get together and go and should be hanged, or oven taxed. of all the animals
on the tarm none is so aflectionate as the dog a on the farm none is so alfectionate as the dog; he will
fight for his master and protect him and his property, not ony and. A pack of sneak thieves have been going
the night. their rounds of late stealing oats, wheat, butter, meat,
and so torth, but they took good care not to molest the owner of a good dog. The country of late years
is thronged with a lot of those Italian peedders, and some of them pretty saucy fellows tood which are a
terror to the women of the house should they be alone When one of them eses a good noblo dog lying at the
pack, but if Mr. seat of the reasons why I speak in idefence of the dog. Yet
no matter how much the owner may be attached to his
 with thot ong, por pay all the loss,
further outbreak. That terrible gale of March 20 th blew down a great
number of barns and windmills on P. E. I ., our own wheel sharing a like fate. Atter many years of experience with wind power for farm use, I will say, for the the
benentit of those who contemplate buying a wind benent of those who contempro woods handy to your
that if you have a tall bush or a mill. for I can assure
You it will not give you satisfaction, but if you are wind blowing fair and square at your wheel, you have
a power that will do all the work on an ordinary tarow, and do it more cheaply than any other power
know of. of course there are times that you cannot do anything with this kind of a power, but a
avoid any inconvenience caused by a calm spell, you ast look out and keep the threshing and the grain
tushing and such other work ahead. Have something Last season was by far the best, from a dairy point
Liew, that we have yet had, put this coming season

are selling for big figures. Yet it we should have an
unfavorable grass season it will lessen the millk supply to a considerable extent.
 we hope no loss will be sustained by shippers on acc
count of the frost, which is liable yet to do some dam salable potatoes on P. F. I. to supply the local need. I do not think this at all, for many thousands of bushels will be exported from this Province this spring,
yet there are some sections potato crop was almost a total fallure. Farmers who
will have to buy their seed potatoes would do well not to leave it too late. Pork has advancod a little, 8tc.
is now being paid.
Beer is going to bo a good price ls now being paid. Beef is going to bo a good price
this spring. Some thave sold for fo. live weight, to be fed out to June 1st. Horses are very scarce, and Will sell high this spring. Eggs are now 18 cents per
dozen, and not tikely to come much lower. Great quantities of musel muc have been taken from ory
rivers and bays this winter. Farmers find this a very
valuable manure, and when applied to new land, 12 o 15 loads to the acre, we can raise great crone especially of hay.
East Prince, P.E.I.
wM. Meharey's clydesdale sale. The auction sale at Ottawa on April 2nd of allies
imported by Mr. Wm. Meharey, of Russell, Ont., was lapgely patronized. There waib a very large crowd of people prosent from Ontario and Queboc, and a large number wanted mares ; the day was aif that could be size, good colors, and the best of feet and legs, and no
better breeding has been onfered for sale in Canada. Unfortunately, they were in poor condition. It may are low in flesh, long haired and shagey-loolking thit time of the year, and the long voyage, 16 days all
told, 11 on sea and 5 on rail, did not improve their appearance, and. to make matters worser they very
 lendency to make would-be purctine the fat on before
bitd
It, seems the people must have the sold wery fast, but it was bargain day on the thin ones, and the purchaser got big value for his money.
It is hoped the fillies will do well in their new homes. It is hoped the fillies will do well in their new homes.
Following is the sale list : Shapely Queen, 3 yrs.; J. A. Farlinger, Cornwall,', 815 Nancy of Charlesfeld,
ston's Correass Ont. Heroine, 3 yrra, Jas. Croll, Ramsyille, ont........
Deaconess, 3 yrs; Jas. E. Muldoon, Falloweld,

 Borry Baroness ; A. Meharey, Ruseell, Ont.....Wa
Princess of Torr.,
B yrs.; Matthew Stacey, Wa

Mrmors on's Queen, 2 yrs.; Geo. Cornell, Lynn, ont
nat.

 Fanny Lawrence, 3 yrs,; Wm. Duncan, Hallville
Ont. Rosie Ascott, 2 yrs,; David Mowatt, Merivale
 Freniere, Que. .................................


Ont. ...............................
Average for 21 sold,

## ADULTERATED FOOD

The annual report of the Department of Inland
Revenue for 1905-1906 shows that maple syrup was Revenue for $1905-1906$ shows that maple syrup. wa
found more commonly adulterated than any other arti cle of food that came under official cognizance. Of the samples examined by the oficial analysts there were hundred and twenty-two samples of canned meat were analyzed, and only four were not marked genuine,
There were 116 samples of adulterated pepper, 14 of tincture of ginger, 16 of olive oil and 82 of fruit pre
serves. In all 2,095 samples of foodstuffs were ex amined, of which 1,804 were found genuine, 402 doubt ful, and 389 adulterated.

The Iowa Legislature has agreed upon a bill provide four agricultural high schools, under control lege. Provision is made in a one-tenth-mill tax lev lege. Provision the mhich wil
for the whole State, whilding each year.
one of the build

## THE TEACHER'S WORK AND PAY.

Yoir Your issue of March 7th contains " Theachers' Salarion and "A Farmer'ser," which I read carefully and compared with other articles of former iasues on this important question. Being mysel8 a farmer's son, also a teacher, though not at present actively engaged in
the profession, I beg leave to disouss this subjeet the . profession, I beg
through your columns.
". Farmer's Son" voices the sentiment that teach-
ars' salaries should be regulated by supply and doers' salaries should be regulated by supply and de-
mand. At present we know that the demand is somewhat. in At pressent of the supply. Teachers' salaries whould, accordingly, be subject to increase, but on account of the narrow-minded, niggandly trustees in charge
of many of our schools this is not the case; they either perof many of our schools this is not the case; they either per
mitting their schools to lie vacant or employing unmitting their schoois qualifid teachers. in a radius of 11 miles of home, one school has had a teacher for only a few weeks, and two other schola
employing teachers without legal certifcates. The employing chers lack a union of their own, and, moreover, as they hold their certificate from the Government, the Government has a right to see them properly protected
from incompetent outsiders who are willing to worle frym incompetent outsiders who are willing to wor 1or a pittance. Many of our teachers are migrating
to the West, to the United States, or are eqtering some to the West, to the Unitiod States, or are eptering some allow this state of affairs to contine, ander or ate lachers who ambition to make an attempt to bettor thetr present situation. May I ask if "Fermer's son " would consider it more proftable to engage for the
coming season's work an ambitionloss, pleasure-seoking man, at a salary of, say, $\$ 20$ per month, or a good, pushing, energetic fellow, at, perhaps, $\$ 28$ per month It is easy to lose all that io cheap, incompetent
A "Farmer's Son" considers \$1,500 an excessive for one and count the cost? The majority of student at a Collegiate who live in the country have to pay
their board in town. Granted they are earning during their board in town. Granted they are earning dur
the summer, they are still required to pay during the summer, they are still required to pay durnag at least $\$ 3.00$ per week for board, or a total of 8504 .
The fees, if at College, are $\$ 4$ per month, or ght Allow $\$ 60$ for books and supplies during the four years. and at least $\$ 50$ per year for incidental expenser $=$ $\$ 260$ outlay. The Model School training under above which gives in all \$875-the price of a third-class pro lessional certificate, the lowest standard which qualine to teach. The Normal training for a second-class pro Ressional winc years of ex tra Collegiate work required for the arst-class certiacate, at $\$ 400$ ( $\$ 200$ per year), we reach a inal tot of $\$ 1,47 E-$ how far short of $\$ 1, b 00$ ? and "time it money" even to a Oanadian boy on the farm. The above is a conservative estimate, based on facts, and I challenge anybody to dispute it. It is inferred that a certificate may be secured th
less than four years.
Probably, but \% laborer wotthy of his hire" -the extra effort put forth to secure the prize is well worth the difference. Having had some experience in this "quick-work business, to try the whereot I sp
experiment.
The cry during the past has been, "Ratse the
standard of education in public schools" standard of edication in public schools": Quito proper, tions of the teachers.. This is an absolute necosility for success in your project. If teachers are required to have higher qualifications, they have
higher salaries to enable them to do so.
higher salaries to
Last Christmas I was offered several schools, at a salary ranging from $\$ 400$ to 8500 . At a ealary of $\$ 400$, it will cost me at least $\$ 175$ for board, laundry or $\$ 225$ clear. I cannot secure a man competent to fill my place at home for less than $\$ 250$ and board. I do not intend to defend the case of morality
among the teachers, but for that matter I do not conamong the teachers, but for that matter 1 do not con-
sider that men or women should be patd to onduct themselves as ladies and gentlemien. The sense of honor should be sufficient to stimulate anyone in this respect.
ing were placed in a teacher's shoes; if they over that ing were placed in a teacher shous; iaughters to the the thothrs profession, or if , they themselves would exercise tholr
mental facultios about fifty per cent. as energotically mental facultios about fifty per cent. as energoticaly
as the individuals who secure teachers' cortifientes, as the individuals who secure teachers cortinceus,
they would place a somewhat diferent estimate on the salary of $\$ 300$ which they at present would grant thelr veachers.
"Get down and walk and you will change your tall,
When you feel the peg in your boot."
The fate of our cquantry depende upon the proper education of the youth of to-day. The boet qualifod and most energetic teachers are entering other callipe
where there is greater remuneration and greater ecoplik where there is greater remuneration endowed. Would you, for the sake of a tew paltaty
dollars, entrust the very important, yee, sacrod. dite
of moulding the future of the coming generation
those teachers who do not themselves possess any
sire to sire to climb, believing that they will labor to inculca those aspirations in their pupils? Remember, it not possible to give what you do not possess.
Ontario Co., Ont.
H. E. GEORGE'S HOLSTEIN SALE. The auction sale of registered Holsteins, held by
20. E. George, Crampton, Ont., at Napanee, on March H. E. George, Crampton, Ont., at Napanee, on March
20th, was a great success, taking into consideration that 18 of the cows had had been milking for nearly six
months. months. Of the bolance but two or three, had recently
calved, and their calves were sold separately from the calved, and their calves were sold separately from the Conly a few days old, one being born in the car going to Napanee. There were about 1,000 people present and everything was sold. J. Merritt Moore, of Spring field, wielded the hammer, and D. Derbyshire, M. P
gave a grand address on the prosper gave a grand address on the prospects of dairying
This being the first sale of the kind held in the east is probable another sale would do still better. The greatest number of enquiries for catalogues came from
readers of "The Farmer's Advente." readers of "The Farmer's Advocate."
the list of those selling for $\$ 70$ and ofet
Calamity Maid Jane, 4 yrs.; M. Parks, Hawley... $\$ 150$
Farks, Napanee
Jenny ,Lind, 6 yrs.; W. L. . Grass, Westic................ Jenny, Lind, 6 yrs.; W. L. Grass, Westbrook
Daisy Dunham, 7 yrs.; S. Lines, Latimore Daisy Dunham, 7 yrs.; S. Lines, Latimore..........
Phobbe E. Netherland's
II.,
8
yrs.; Wm. Norri
Napanee
Lady Hamming De Kol; W. R. Shields, Mt. Pleasant 14
etty, 8 yrs,; John Frink, Collier's Bay...............
Lassie Artis Beauty, 10 yrs.; D. A. Black, King
ston
Maid Netherland Flow, 8 yrs.; D. A. Black
Coloma Canary Gem, 3 yrs.;
A. Black

Phyllis De Kol, 3 yrs.; A. McDonald S...................... 19
Fairmount Queen, 3 yrs.; Wm. Pringle, Nhannon ville
Marion De Kol, 6 yrs.; E.; H. Hinckly, Wolfe Island 14:
ane Ykema, 5 yrs.; R. Shannon, Shannonville... 14.
Kingston ....................... ................ A. .
Martha Aaggie Ne
Guinnes, Roblin
Bleske Calamity Jane 3 yrs.: Wm.......................................... 190
Bleske Calamity Jane, 3 yrs.; Wm. Doran, Roblin
Wietske Hengerveld De Kol Mercedes; P. J. Salhy, Wietake Heng
Montreal
Bessie Fairmount, 6 yrs.: Ira Been, Hawley...
Wietske Duchess
Wietske Duchess Aaggie; J. A. Caskey, Madoc
Duchess
Tweed
Johanna Sarcastic De Kol, 11 mos.; Alf. Curtis
Willett's Home

Napanee ..................................................... 130
Menuaue, 5 yrs.; Wm. Doran, Roblin...............
Nenuaue, 5 yrs.: Wm. Doran, Rob
26 head averaged $\$ 145.50$.
Dementia Americana"/is the name Attorney Delmas gave to the peculiar form, of alleged insanity with
which Thaw was supposed to be afficted. We do not know just what "Dementia Americana" is, but there would seem to be a good deal of it in some States of
the American Republic.

CLYDESDALE ENTRY AMENDMENT CHALLENGED
Farmer's Advocate" of the 11 th inst., from Mr. J. W taining a resolution passed by the Board of Directors of that association, points out that the amendment
the rules of entry in the Clydesdat ada, requiring that the cynessale studbook of Ca ada, requiring that the parents and grandparents
all imported stock be duly recorded and numbered the Clydesdale Studbook of Great Britain and Ireland has not been legally made. Article 8 of the constitu
tion of the be amended or chanced . This constitution ma ing of the association, with the approval of two-third of the members; 15 days notice of such meeting being given to each member. bers present at this merol of two-thirds of the memhence, it is inferred, that the Board of Directors has no power to change or amend the rules of entry. Apart from this, it is pointed out that, according to the
National Records Act, a copy of any resolution sort must be sent to the Minister of Agriculture for his approval, and for incorporation in the constitution of the association. Furthermore, this action by th
Board of Directors, even if the resolution had been through in the legal way, would have an effect not put pected by even the men composing that board. Our
correspondent holds that if the standard for the Canadian book is to be raised for imported animals, four crosses or mares and five crosses for stallions, which
is the standard for Canadian-bred animals, would be reasonable and consistent. This, it is understood, cor-
responds with the American rule

## EASTERN DAIRY SCHOOL

In all forty students wrote on the final examinations of the long course at the Eastern Dairy School. science, bacteriology, dairy chemistry, miscellaneous (boilers, engines, soldering, etc.), cheesemaking, cream separators, buttermaking and milk-testing. Besides written examinations on all of the foregoing subjects, named.
The total marks oltainable were, 100 . The following is a list of the successful candidates arranged in order of general proficiency: Class I. (75\%, and
over)-R. T. Gray, 940 ; W. H. Gibson, 930 W and Gardiner, $995 ;$ R. W. Ward, 919 ; W. J. Ragsdale,
915 ; Roy Gibson, 911 ; D. F. Brennan, 905 : T. E. 915; Roy Gibson, $911 ;$ D. F. Brennan, $95 ;$ T. E.
Farmer, 897 ; C. W. Norval, 887 ; A. Garratt, 886; A. Farmer, 897; C. W. Norval, 887; A. Garratt, 886; A.
M. Smirle, S84; 1. Flliott. 882; H. Juhy, 878; (C. M. Smirle, $884 ;$ R. Filliott. 882; H. Juhy, 878; (G,
H. Bensley, 877; W. Finkle, 870; H. Lackie and N.
Nolan (equal), 869 ; F. Little, 858; (. H. Barker, 850 . Nolan (equal, $869 ;$ F. Little, 858 ; G. H. Barker, 850
Class II. ( $60 \%$ and under $75 \%$ )-A. Macdonnell, 804 . Class II. (60\% and under $75 \%$ )-A. Macdonnell, 804; 6 ,
C. Valleau and A. H. Wilson (equal), 792; H. Howey, $790 ;$ J. J. Brennan, 787; R. Rolfe, $7777 ;$ S. S. Cheet-
ham, $766 ;$ John Snetsinger, 761 ; J. B Bowery G. Graham, 732: H. J. Crowe, 710; C. B. Larry, 672 and J. A. McDonald, 666.
SCHOOL NOTES.
The attendance at the school during the session just
osed was very large, and a record the final examinations of the record number wrote on the final examinations of the long course.
So pleased were the students with the course given
that a number of the successful candidates expressed
their intention of spending a portion at least of wext session at the school.
It would appear that the time is rapidly ing when practically all of our cheese factorics an creameries will be manned by dairy school graduat
Proprietors of factories are const for makers and Certificatess will hereafter be selected as syndicate
structors.

## U. S. CEMENT INDUSTRY

vey shows that ssued by the American Geological Sur ment in the United States in 1906 was 50,027 haulic ce rels, valued at $\$ 54,015,773$. This represents an crease in production of $9,133,013$ barrels, and $\$ 18$ 1906,45 in value over 1905. Of the total amount value of $\$ 51,240,652$. natural rock cement with barrels, valued at $\$ 2,362.140$, and 481,224 barrels ruzzolan cement, valued at $\$ 412,921$.

DEATH OF CHARLES RANKIN

$$
\begin{aligned}
& \text { We deeply regret to announce the death, which oc oce } \\
& \text { curred on April 9th, of Mr. Charles Rankin, of We }
\end{aligned}
$$ reeder of Shorthorn cattle and Oxford Down and Mr. Tankin barrie and Allandale place suddenly on the train been due to acute indigestion. The deceased was in his

coth year, and 70th year, and leaves a widow and nine children. He he
was one of the leading farmers in Simcoe Count was one of the leading farmers in Simcoe County, and
man of sterline character. a man of sterling character, an elder in the Presby

NO NAML

Will the Yelverton, Ont... subscriber who wrote us
on April 12th be good enough to forward his name,
when the questions asked will be dralt, with? An Ottawa despatch of April 12th stated that the Department of Inland Revenue is complating an anal-
ysis of some thousard samples of butter collected from various parts of the Dominion, with a view to determining the quality and purity of the article being
turned out by Canadian farmers and dairymen turned out by Canadian farmers and dairymen. As a
whole, the results of the analysis have been quite sime oleomargarine in ten cases it has been found that against the law been used as an adulterant. It is oleomargarine in Canada, and the Department of of ure jurors for conviction of murder in the first degree seven five for acquittal on the ground of insanity. The whole
miserable proceeding amounts to now have to be another trial, and very probably an
acquittal. This will amount to cather, to a failure of justice. to a miscarriage or,

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The Mormb
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Arene Montreal Horse Show is

The Montreal Horse Show is to be held at the
Arena, on May Sth, 9th, 1.th and 11th. Entries close
on April 20th. W. Northey, Windsor Hotel, Montreal,
is the secretary.

## qUESTIONS AND ANSWL. Miscellaneous.

ECZEMA Yearling colt is losing its hair in grea patches, leaving the hide bare, except io
a thick scurf. It it not particularly
itchy. Is this mange? itchy. Is this mange? SUBSCRIBER. eczema. Clip him. Wash thoroughly with warm, strong soft-soap suds, applied with a scrubbing brush, and rub with twice daily, sublimate, of water. (Remember that this a quar poison, and should, he so latelled.) (iive him, internaly, one ounce Fowler's soll
tion of arsenic, twice daily, every al ternate week as
belicve veterinaria
czema contagious.
MARE WITH COUGH Clydesdale mare, aged nine ywns, ha
a cough, which acts very much like th heaves.
winter.
Ans.-It is' probable she h
heaves. Dampen nll she eat
heaves. Dampen all she eat
be sparing of hay
after a meal, and
a ball composed of two drams
dract of gum opium.



The Quiet Hour.

SUORA MARIANNA
In a convent, old and quiet, near a little he left them, heavy-hearted, and his Now the night had closed around then,
on a chestnut-shaded hillside, to the In the low Maremma country; where men For the sky was black and starless, an

 weariness endure:




Yet she lived as rich and happy as a
queen upon her throne!
She was rich, though few would think it;
for God gave her rew woce to choose, it,
Not the world's deceitful riches, but the
Wealth one cannot lose.
There are many heap up treasure, but it
is not every one
Who will take his treasure with him

nd her eyes, with all their sunlight,
seemed to swile as trough a veil
And her step was weak and heavy, as
And her step was weak and heavy, as
she trod the step ascent.
Where through weeks of wintry weather
to her loving work she went.
twainer
wint fotpath, one and narrow,
wop among the trees,
winding up among the trees,
And 'twas hard to trace in winter, when
the slippery ground would freeze, en
And the sow fand fall thick above it hiding
every sigm the
every sign and mark; so often, she
But she went that way so
could climb it in the dark!
Twǎe to nurse a poor young mother, by
fierce malady assailed.
That she made the daily journey, and
she never once had failed.
Now the short sharp days were over, and
one shine
the spriny had just begun;
ivery morn the light came sooner, an
more strength was in the sun.
Mann ninhts had she been watching, and
with little rest by day,
or her heart was in the cham:er where
that heplpess woman lay ;
that he:pless woman lay;
There the fame of tile she cherished,
when it almost ateased to burn,
Praying Goo to help and keep them till
the husland should return
Twas the old and common story, such
as all of us can hear.
If we care to, in the thountains, every
She the thomunhout the year :
She languished, weak and wasting,


She wild birds in the air.
the ben had neither place nor part
simple orymes they made,
nd with glowing words compared her


in the man who played at weddings Thau hast stretched towards Thy Mother
with his ancient violin,
With his sad, impassioned singing, had Thou hast knomen the wants of children,
contrived her heart to wing
, one hrillient heart April morn morng he had
brought her home, a bride,
his farm and low built cottage on the
mountain's terraced side.

with love and health and music How her gentle heart was beating. on
was much to make it gay.
that night of tears and strite,
ro hapy, carelesss people, and
thought not to complain,

## 

The the fire with branches,
The winter stoms swept by
rost their life wis mostly

unt timely, chest nuts blighted. Sick-
Came and debts were made
ware sold dan sold, alas, to pay them; yet or hor son! hearrd the answr, that Then H1. Hurned ditis face toward her, and




## A WONDEEFUL HELP

to the busy housekeeper is a flour which is easy to use．＂Five Roses＂Flour is exceptionslly easy to use，because it is always uniform．There is no waste of time，flour or money；no trials of temper over spoiled bakings when you use＂Five Roses＂regular－ ly every baking day
Ask your grocer for it to－day，and learn what easy baking is．

LAKE OF THE WOODS MILLING CO．， LIMITED．

## The Advice of Experts：

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

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

Rennie＇s Seeds are fresh．They are Northern grown and adapted to the Canadian climate．They are care－ fully selected and free from weeds．This is a plain
statement of facts，

and we stand behind it with a record of thirty－

$\mathbf{W}^{\mathrm{M} .}$ RENNIE $\mathrm{C}_{\text {Limeres．}}^{0}$ Ask your dealer fon
RENNIE＇S SEEDS

OUR ENGLISH LETTER．
品号。 I am afraid that，owing to the of my letters in our Home Magazine，
and the exigencies and the exigencies of a limited
space，they must have a somewhat
patchworky aspect to our readers． can but again ask their indulgence，
and just pind and just pick up the dropped threads
as best I can． To－day I find it difficult to choose
my topics，for I have had many
delightful little trips around and me topics，for I have had many
delightful little trips around and
about South Devon since I last
wrote wrote，and I want to sell you about
them；but then，again，there have，been many，evain，there
penings in the hap penings in the political and so－
cial world，and I should like to
tell your dust tell you just a little about them，
too，or at least try to pass on to
you what those who have been in closer touch with them all have
thought or said about them．There are thought or said about them．There are
some very grave considerations before
Parliament this session，each having its turn for discussion，but first of
all，on the opening day，came that all，on the opening day，came that
of the bill for＂The Enfranchisement
of Women．＂a bill which met its final doom，but its postponement by the well－known process of being
talked down，the last man holding Vide！＂and interruptions，until the relentless hand of the clock reached
the exact moment the exact moment which，by Parlia－
mentary rule，made further discussion mentary rute
impossible．
Under the heading，in a London
daily，of＂A Great Debate，＂the
writer says ：＂Never has the cause Writer says：＂Never has the cause
of woman suffrage been more ably of woman suffrage been more ably
presented，whilst the old jibes were conspicuous by their absence，wand，
in spite of its temporary defeat，to－ in spite of its temporary defeat，to－
day＇s debate has helped forward
powerfully the whole question，which powerfully the whole question，which
has been lifted up to a higher plane of thought and feeling．Woman suf－
frage has now taken its place def－ frage has now taken its place def－
initely in the sphere of practical politics．There can be no recession．
It won＇t come in this Parliament． It won＇t come in this Parliament；
but it will come as certainly as the sun will rise to－morrow，＂，as the
Premier voted －declaration of his opinion that the exclusion of women from the fran－
chise chise is neither expedient，justifiable
or politically rieht．＂We have or politically right．＂We have out－
lived the idea，＂he said，＂that wo－ man is an outlander by predestina－ in the case of others who as as it was favored the principle，he felt that there were many changes needed in
the details of this especial bill before it could be accepted as a whole．
Whilst it was inevitable that the actions and utterances of what is
known as the physical－force group of suffragists，for，whom the title of
＂Sufiragettes＂， Sufragettes，has been coined，
should provoke just criticisms，as well as witticisms，they have not
very seriously or permanently in jured the movement．mermanently in－
Even those who deplore their methods，say，in
kindly excuse，that even the worm will turn；and as the quiet and digni－
fied efforts of fifty produced so little effect，it could hardly be wondered at that the
patience of some would fail them and the protestation take a more turbu－ It seems next to impossible to
judge of any subject which is brought up for legislation solely upon its own
merits，whether it be merits，whether it be the enfranchise－
ment of women，the abolition of barmaids，or the building of the
Channel tunnel；self－interest，political reasons，and，with many of the
Members，a seeming impossibity Members，a seeming impossibility to
make up their minds once for all and then to abide by their convic－ which will illustrate my of a story lady had a pet chamelon mathat chanc－A
ed its colors ed its colors in sympathy with its derful rapidity．It was with won－ of an old and faithful man－servant James，bring me the chamelon，I
want to show it to hady ＂．Sorry，I canna，ma＇m．＂．＂Ma，＂Why
not ？
this way＂Well，you see，ma＇m
her，I just showed her your pet，
＂Yes，there is no ＂Yes，there is no harm in that．＂ No，ma＇m；well，I put it on a ＂Yes ？＂＂I put it on a pink cues ion and it turned pink．＂＂ink＂cush－ very good．＂＂I put it on a yellow
cushion and it turned yellow ＂Yes？＂＂I put it on a gray cush ion，and it was just as aray as your lady＇s dress．＂＂Well，well ？＂ it on a tartan plaid，and it just bust I see I am not going to get upon the subject of my wanderings in this Instead，let me pass in to item clipped from the Daily Mail of 22nd February，which，being another added link between the Old Land and The lady mentioned，Mrs．Scholes，is a personal friend of my own land－ lady at Teignmouth，who tells me
that she has not one，but two that she has not one，but two large
provision stores in the neighborhood of Torquay．The item was headed． ＂Message in a Cheese＂： cheese on Tuesday，Mrs．R．R D． Scholes，of St．Mary Church－road Torquay，found a small glass bottle containing a piece of paper，on which
was written the following ：

$$
\text { Westport, Ont., Aug. 14, } 1906 .
$$ this cheese，trusting the receiver will kindly answer and let me know where it was bought，the price，and also made to－diked it．This cheese was my husband，w．C．Taylor，in Salo by factory．Waiting for a reply，Salem （＇）MRS．W．C．TTAYLOR．

Wrestport, Ont.
' The cheese is of excellent quality

$$
\begin{aligned}
& \text { "The cheese is of excellent quality, quan } \\
& \text { and Mrs. Scholes intends to com }
\end{aligned}
$$ municate with the writer to that effiect．＇

whose cheely hope that Mrs．Taylor commendation，has with such high from Mrs．Scholes，according to promise．

UASES OF LONGEVITY a previous I have already alluded，in mentioned in the public press of the great ages reached by people of both
sexes in the Old Land．Since ther I have come across some most inter－ esting records，all within the last month．The Church Guardian，in a covers only from February 7 th to February 18th，inclusive，gives the names of twenty－three who have died thirteen over 90 ，one being 96 ，but three 94 years of age．other papers Af the month tell as follows of Mrs． Ann Marshall，of Liskeard，who has
just died，celebrating her 103nd birth－ day a fortnight ago．She distinctly remembered the national rejoicings ＂Granny＂Hudson of Waterloo． aged 105 years，in Lambeth Infirm Rayley，Mrs．Willis，nee Frances land，who，had she North Westmore－ five weeks，would have att another 101st birthday．The parish register she was born there shows that 1806．Deceased had lived in five reigns，and was in London at three coronations．She saw Queen Caro－ line thrust aside at George IV．＇s coronation，and remembered the city
watchmen，the running of the first London omnibus，and Lord John Russell＇s first experience at the hust－ ings．The Iron lyuke only lived
three miles from her native place She was an enthusiastic whist－ player Of Willima Horne，who still
lives at Swanmore，near Bishops， lives at Swanmore，near Bishops，
Waltham，Hampshire，and who re taitham，Hampshire，and who re
tains most of his faculties at 104 Of Mrs．Ann Elizabeth Jennings，who is about to celebrate her 103 nd birth－ day at King＇s Lynn．She has a son living，aged 83；has lived in five
reigns，and also rememberd reigns，and also remembers when，as
a child of five years，her parents took
her to Russell Square to her to Russell Square to see Queen
Caroline，who，Mrs．Jenning her to Russell Square to see Queen
Caroline，who，Mrs．Jennings says，

APRIL 18, 1907
THE FARMER'S ADVOCATE.
679
would not allow her to be crowned,
Another old lady, at Yatton, Mrs Another old lady, at Yatton, Mrs
Honor Coleman, celebrated a few weeks ago her 10ath birthday. Her
grandmother had lived to be 101, and her own mother met with death
accidentally at 100; whilst it is told of Elijah Lindley, a Nottinghamshire worthy, that he has been for sixtythree years clerk and sexton of his
parish; that he lives in the house where he was born, and has only been absent from the village four
Sundays during his life. He has served under five vicars, assisted at
210 marriages, 1,500 baptisms and

With the Flowers.
SOME HARDY ORNAMENTALS
By Mrs. Anna After mid April, one need not be surprised on examining the flowers of the scarlet maplo to find them ready to un-
fold, and the spice bush follows closely. Pussy willows and alders have filled the air of the swamps with the pollen from their floating catkins. The shad bush is
waiting to feel a few warmer sunrays, and the flowering dogwood in warm
corners shows opening buds.
In the garden, the daphne In the garden, the daphne surprises us
with its clusters of pinkish flowers, or as bush of pure white may be seen with
their honey-sweet fragrance that is a charmed breath of spring.
Presently, the little
Presenty, the little Magnolia Stellata opens Its starry blossoms all over the
liefless tree, though there is danger that a frost may destroy the beauty of the
venturesome treasure, and turn the petals brown. If it has been a favor-
able season, the golden bells of Forsythia will open next; but il severe wintry
weather, there will only be the few drooping branches in bloom that were
under the Spireas soon begin their procossion, for
"Arguta, often blosso mas with light show on the ground, and Spirme What a wealth of shrubs bloom in late May, with calycanthus, golden currant, pearl
Spirea,
Tartarian
honeysuckles acaceas. Lilacs hold their own, and add
to their $\begin{aligned} & \text { reputation the old fragrant }\end{aligned}$ to their reputation the old fragrant
clusters, and in June we have horse-chestnut and mountain ash, while hocuect treses
line the country lanes. Nor must the barberry and snowball be forgotten, the
viburnums having a late effect of red berries that keep up a brightness all
season. Then June is the month of roses-
queenliest among the flowers-that glorify while they last. The carsalpa shourd be
better known, with its orchard-like better mown, with its orchard-like
blossoms, white, with a tinge of yellow or
brown, the dense and graceful. The cucumber mag nolia swings its seed-pods late in the sea-
son; it large leaves are clean and hand-
some, while the le beaut, of theirir own.
Hydrangea paniculata is a shrub that has taken first rank; its white sprays
change to the other seasons as autumn approarhes, the other seasons as autumn
till November finds them browin and dry.
So many shrubs and ornamental trees We a ays a a regret for forthore that there is that will not
endure our winters. But endure our winters. But an experience of
shrub-planting for over forty years in Quebec Province proves that theare are
enough hardy plants to survive and form home, and a procession of any country
utility.

WILD FLOWERS FOR THE GARDEN (3) Do you know the wild hepatica, the stems, white or bluish flower, with downy first days of "White white trillium, commonly called scattering floral though a fairy had been The dog's-tooth violet, or adder
tongue, with its bright yellow blossoms and smooth, ilotched leaves ?
The scarlet suggestions columbine, yellow-lined, with
of nectar-in its knobbed
fower-tubee suggestions
fower-tubes ?
graves for which he whas dug of himself
He has tolled the bell Heigns-George IV., William three so Quean Victoria. He was only years old when George IV. died, but
his father, who was then sexton, took him to the belfry and made him pull the rope.
With which little history I must close my letter, reserving for must
next two on three the story of pleasant prowlings through the vil ages and lanes of lovely Devonshire

The little herb Robert, odoriferous,
spreading, with tiny plink blossoms some
what what resembling with thiny pink blossoms some of the shamrock ?
The
Indian turnip, or Jack-in-the-pulpit, luxuriant of leafage, with little pul-
pit gorgeously striped with purple green? gorgeously striped with purple and The dainty dicentra, or " lediee-andevery other flower as to seem almost The bloodroot, with its great cleft leave and snowy blossoms, and stems and root touch? The cardinal lower, gleaming like sen-
tinels in scarlet along the banks of the streams ?
The wood violet in white and yellow, blooming nearly all the sum mer through?
The graceful Solomon's seal, and twisted The graceful Solomon's seal, a
stalk, cousins of the trillium?
Are not these
Are not these beautiful? And do you
not know that with just not know that with just a uttle care
they may, one and all, be transplanted to the shady, moist spots of your garden,
where they will grow without the slightest care, save to se that they are not encroached upon by the aggressive weeds of the cultivated plot
Even the cardinal flower will from its native streams, if given a deep, rich bed and plenty of modsture. It is
especially attractive when grown along with ferns, and since it wwill flourish
elther in sunshine or shade, planted on the north side of the house, where the ferns will do best.
Some of the most attractive gardens I
have seen were composed almost wholly of these contributions from the wildwood; but in every case, nature's arrangement
was followed. Wild flowers simply nes followed. Wild flowers simply could they would look like caricatures. They must be given their own sweet will, and
permitted to spread and mass themselves permitted to spread and mass themselves
as they choose. Try a flewe of them in some out-of-the.
way corner, where the necessary partial way corner, where the necessary partial
shade and accumulation of leaf mould are available, and see if the wild-flower nook
will not soon become one of the most highly-prized spots in your ganden. Then, some day in the future, when you have
become fully impressed with the decorative become fully impressed with the decorative
value of our native growth, you may
feel impelled to group akillully your house and lawn clumps of wild plum and cherry, flowering elder and dogberry,
the Juneberry with its wealth of bloom, the clambering wealth of white
giniape and Virginia oreeper, bittersweet and wird
clematis; and you will wonder why your neighbor chooses to worry over and work
with exotics. which coaxing and wheedling to induce them to
grow in a climate and soil alike grow in a climate and soil alliko

PUSSY WILLOW. Puesy Willow, Pussy Willow, Soft as any downy plllow,
Sleeping all the winter long, Cease your sighing-
Winter's dyingWinter's dying-
Don't you hear the robin's song ? Pussy Willow. Pussy Wdilow, Solt as any downy pillow,
Standing by the little stream, Cease your sleeping
Spring is peeping-
Wake and tell us all your dream

## Pussy Willow, Pussy Willow Soft as any downy pillow,

Don't you love the children dear
Hear their Hear their laughter
They are after They are after
Pussy Willows

| POUNTRY |  |
| :--- | :--- |
| COEAGSOD | O? |

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 Oak . On .



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 Mo Monve omiok FEED







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and












36th Annual Fair



## When You Buy Telephones Do You Consider the Quality?

Poor telephones give poor satisfaction, and is money wasted or thrown away

When you buy telephones or telephone apparatus, buy the best, it's the cheapest in the end.

We make the best because every piece of our apparatus is made out of the very best material obtainable, and is made in our factory, and not bought here, there and all over the country

We manufacture a complete line of telephones, switchboards and also carry a large stock of line material and supplies.

Write for Bulletin No. 2.
Northern Electric \& Manu'fig Con, I imited WINNIPEG. montreal

## John Chambers \& Sons

HOLDENBY, NORTHAMPTON, ENGLAND


Wieh to inform their many friends and customers in Canada and the United St.tes that they bave established permanent headquarters in Canada, at St. Thomas, Ont., under the direction and management of Dr. Geary. A shipment of 10 stallions and 9 show horses among them, weighing up to 2.600 pounds, and full of quality and flash movers. The mares and filles are sa'e in foal. Positivelv the best
lot of Blires ever landed in Canada. Address all Long-distance 'phone. lot of Bhires ever
correepondence t
DR. GEARY, ST. THOMAS, ONTARIO


London FACE DOWN Adjustable Conorete Bullding Block MachIne

THE LONDON CONGRETE MACHINERY CO, 28 Redan st., London, Ont.
Largest exclusive concrete machinery company in Canada.


FARM LANDS AND CITY LOTS


ADVERTISE IN THE ADVOCATE.

The Ingle Nook.

ig. 1.-Plan for compact house: E trance at side of hall ; (A) cellar stair goes down under upper stair ; (
wardrobe ; (C) closet for coats ; (D) stairs going up, with turn; (G) grate


Fig. 2.- Fither this plan or the one
above may be used with upstairs shown
kitchen is preferred, use this plan, and place built-in cupboard near dining


Fig. 3.-In above plan, long closet door
should be more to the right to come

sity for taking one awny winecessary the nepeces-
kit
kitchen door should be in the position most convenient to barn, pump, etc., and
should have fust within in the position should have just within it a small closet
or hall in which the " men ", may hang
their their hats and overcoats, thus saving so
much " muss"" in the kitchen, while premuch "muss" in the kitchen, while pre-
venting the clothing from becoming
chilled ac it must of chilled. as it must. of necessity if hung
in an outside shed.
or
or built-in serving pantry, or built-in serving cupboard, as the casee
may be, should be placed at the nearest may be, should be placed at the nearest
available point to the dining-room-between the kitchen and dining-room, if possithe: a back stairs would be a con
venience, also a downstairs bedroom, so useful in time of illness or when there are
old folk in the house; Old folk in the houses or when a back porch,
vinecovered, to which one mich weuthor. If to to all this buring edded a barm
ment laundry, with stationary tare taps over them, and a door leading
directly out on to the yard, where the clothes-reel stands, or, still better, to a
porch from which a pulley clothes. line. such as that described not long ago
in. The Farmer's Advocate," runs, one's in The Farmer's Advocate," runs, one's
joy so far as the downstairs part of
the house is concerned, must needs be well-nigh full. . We have not
spoken of library and living-room. Some
will choose to make one will choose to make one apartment
answer both and answer both purposes, others wart care
to have nimither, but, in place of them
the old-time the old-time parlor. in Little by them,
Little,
however, we are becoming educated
nway from this a parlor in idea; by the away from this "parlor ". idea; by the
time the next decade has passed, we
shall all probably have come to learn
$\qquad$ fow general ideas on other phases of tiee
subject which are satistactory to myself and mav lie suggestive to you, and sing this extraordinary request came whose virtues seem rather patent, such
as they all are, you are very welcome to Passing hy the first essential, then, a dry site, und the second, ans pleasing an
outlook as possible, we shall go on to
speak of house-building under speak of houss-building we shaller go on the follow-
ing heads: (1) Arrangement of interio ing heads: (1) Arrangement of interior-
(2) lighting and heating ; (3) exterior. Speaking of the interior first may
seem somewhat like putting the cart he sem somewhat like putting the cart be-
fore the horse; yet, since it is in the in-
terior that we chiefly live and move int fect is, perhaps, rather natural. In in the
first place and, of course, this must
afect the outer contour too), the to this climate of extremes, should be com-
pact. Further south, where com pact. Further south, where conserva-
tion of heat is no object, all sorts of rambling arrangements are permissible,
and, it must be confessed, present
css artistis Tess artistic possibilitiess, but present endNda that plan which confines all of Can-
practically under one roof is likely to be
the most satisfactor the most $\begin{aligned} & \text { satisfactory. Such a pro- }\end{aligned}$ shity to be
vision ensures that no room shat ore than two outside walls, and haite more than two outside walls, and quite
d es away with the old-time kitchen,
which. which. in this respect, withe iitsthen,
sides exposed to the weather, was a de-
ided sides exposed to the weather, was a de-
cided mistake. An outside kitchen, with
a saie chimney, will, of course, obviate a safe chimney, will, of course, obviate
all difficulty of cooking in hot weather. all difficulty of ccooking in hot weather. Again, the interior should be arranged,
if possible, to do away with the neceswithin the bedroon. A slight mistake

$\qquad$ "arches.", $\begin{gathered}\text { years ago, the fashion of } \\ \text { struck the country like a }\end{gathered}$ there were arches everywhere, botw: sn
hall and parlor, parlor and dininveroont, or litrary etcor, parlor and infinitum. At first, Ang room thesp openings were supplied with folding
dooms, hater curtains took the place of


## 8,000 FIRMER STOCKHOLLERS,

Won Out Agsain for the Harvest of 1906 .


## The Farmers' Binder Twine Co., Ltdl.

We want farmer agents in every locality between the Atlantic and Pacifio
Oceans. No others need apply. Also advise any other territory adjacent Ooens. No others need apply. Also advise any other territory adjacent
where we should be represented. Write instantly you ment. Remember, we are the last left of all the co-operative family fighting the most virulent opposition ever pitted against the Canadian farmer, his home and ohildren. Our Red Star and 8pecial Manila said to be equal to wily ways of the opposition.

JOSEPH STRATFORD,
General Manager,
Brantford, Canada.


Costs Practically Nothing.



The only medium which conveys weekly to the farmers of Canseda, the advertser's place of buel noes, 52 times s yerp, Is THE FARMER'S ADVOCATE AND HOME MAGAZINE, Bubserlption, 1.50,

COSSIP
A New Shipment of shires, Admirers of the great English draft horse, the Shire, will be pleased to learn that one of the leading firms of Shire
breeders in lingland, Messrs. John Chambers \& Sons, of Holdenby Northampton, whose several shipments to Canada in the past have been so much admired, and have proven so proftable an investment to those fortunate enough to securo them, have opened up permanent quarters in Canada, at St.
Thomas, Ont., for the better accommer dation of their many friends and cus tomers in this country and the United States. The Canadian end of their busi-
ness will be entirely under the ness will be entirely under the control
and management of Dr. Geary veterinary surgeon of many feary, a perience and of high repute in his pro-
fession, and a gentleman in the eession, and a gentleman in the fullest
sense of the term, in whom the public
may place the utmost may place the utmost confidence. Every
animal sold by Dr. Geary will be sold under the most reliable guarantee, and
should anything should anything turn out not right, it
will cheerfully
be remedied, as the Messrs. Chambers are in the Canadian market to stay, and will constantly have a stock of their noted Shires on hand at
their St. Thomas stables. The latest shipment, consisting of 10 stallions and 9 mares and fillies, arrived a few days
ago, and, when seen by "T The Farmer's ago, and, "when seen by " The Farmer's
Advocate", representative, were in splenAdid fettle after their long journes, not
die
one of them even having the one of them even having the almost in-
evitable sea cough, so frequently found evitable sea cough, so frequently found
in new arrivals. Prominent among the In new arrivals. Prominent among the
stallions in this consignment is the
massive $2,600-\mathrm{lb}$. black King of Anglesey massive $2,600-\mathrm{lb}$. black King of Anglesey,
sired by Mere Boy, dam by Wocdland Prince. King of Anglesey stands over 17 hands high, on the best possible kind
of feet, ankles and legs, and is rising five Years of age; as a model of the breed and a high-class show horse, he has had few
equals in England. In 1902, he won equals in England. In 1902, he won In 1903, he was h. c. at Hollyhead. In 1904, he won first at the Anglesey
Show, at Llanerchymedd, also first at Slangefni. In inerchymedd, also first at
Lla05, he won second at Llangefni. In 1905, he won second at
Llangefni May Show, and second at the
Anglesey Shiw, Anglesey Show, a record of winnings,
year after year, that proves him to year after year, that proves him to be
what he is-one of the best Shire sta rions alive. Bay Prince 9th is a bay, rising four, by Lokinge Forest King, the
premier Shire stallion premier Shire stallion of England, many
times champion and grand champion times champion and grand champion, and
whose book is now full for 1907, 1908 and 1909 at 15 guineas a mare, dam by
Leake Superior. Mr. Chambers says Leake Superior. Mr. Chambers says
this horse is the best Shire that ever
left England left Fngland. He is a marvel in con-
formation, size, style, quality and acformation, size, style, quality and ac-
tion. Trenathan Prince is a black, ris-
ing five, by Trenathan Marquis, dam by ing five, by Trenathan Marquis, dam by
Merkeaton Loyal IIarold. This horse is richly bred on winning lines, both his sire and grandsire being noted winners,
and he has won second at Campbellford and Launceton shows. He, also, will be
a revelation to Canadians who Shires have not style and quality enough.
One word fitly describes him . One word fitly describes him, "superb," as
he has fautless form and action, with a
thick heovy he has fauttess form and action, with a
thick, hearvy body. Space will only al-
low mention of one other, although there low mention of one other, although there
are others equally as good: Champion 30th is a chestnut, rising five, by
Colonel 5th, dam by Ashton Briton. This is a horse of great scale, exceptionally
smooth. smooth, with massive, flat bone and
grand good ankles. One thing the grand good ankles. One thing that par-
ticularly struck us was the marvellous cicularly struck us was the marvellous
action of every one of them. This, com-
bined with their bined with their great size, natty,
stylish $\quad$ carriage and grand stylish carriage and grand quality of
bone and ankles, stamp them as certainbone and ankles, stamp them as certain-
1y a way the best lot of Shire stallions ever landed in Canada. Others in the lot are: Milnthrope Victor Chief, a black
three-year-old son of Halker Chie?. This three-year-old son of Holker Chief. This
colt is a cracker. Major 19 th is a three-
year-old chestnut son of year-old chestnut son of Nailston Royal
Harold, and is a show horse all over. Cramore Girton is a three-year-old bay
son of Girton Harold, a big, flash-qual-
ity colt. Bramshall Violet three-year-uld son of Blythwood a black
This colt has several This colt has several first prizes and a
reserve championship to his credit reserve championship to his credit, and is
certainly a rare good one. Candyke Prince is a black four-year-old, by Hen-
dre Crown Prince, another grand good
one rising 9 , by Nailston Ccour-de-Leon
heavy in foal to Fxton He Sheen is a brown, rising 9, by Lincot of shire Boy; she is safe in foal to Birdsult Gaslant. Stuntney Gaeta is a brown,
rising four, by Hitchin Drayman rising four, by Hitchin Drayman 2nd; she
is in foal to Girton Senator Hold Handy is a brown, rising six, by Hallmark 2nd; she is in foal to Princeps matched pair of two-year-old a wellboth in foal, and a mighty nice pair Ashly Princess and flash action galore. by Colehill Paxton? bay two-year-old Colehill Carbon.. Favernate Oharm is to bay two-year-cld, by Elverden Pioneer she is in foal to Extraordinary. Single ton Rose 4th is a brown two-year-old ing the only ones not in foal. Here are a lot of mares and fillies that will cer tainly delight the eye of draft-horse ad-
mirers. They combine great strong, flat bone and the flashiest kind of action, and quite contrary to the imShession of a great many people, these they are an exceedingly choice lot and without doubt the best lot ever seen to gether in Canada. They will be sold well safe in foal make them doubly attractivg as an investment. Address all communications to Dr. Geary, St. Thomas, Ont.

TRADE TOPICS.
A $\$ 500$ FARM.-Five hundred dollars ductive land, close to large markets in Old Virginia, is the proposition oflered in our advertising columns elsewhere in
this issue. It is not even necesary to pay all cash, for terms of payment to be arranged to suit the circumstances of each purchaser. Readers Who are in-
terested are requested to write $F$. Baume, Agrl. and Indl. Agent, N. © Le W.
Ry Ry., Boz G. D., Roanoke, Va., for the two pamphlets, "Back to the Country", and
" What $\$ 500$ Will do in virg Contain full description of these $\$ 500$ Will ind with maps, etc. In writing, please men. The Farmer's Advocate."

PREFERS THE SWINGING stan a question, "Chalns va, Stanchior to in question, "Chains vs. Stanchions,' Nova Scatia. R. Dunn, of Pictou Co. Maritime stanchion, which he devised the
few years the Truro Agricultural College, at
the quarantine barn at St. John, N. B., and adds that Prof. Grisdale has ordered
some for the Experimental Farm stable at Ottawa. A very strong advantage of
this stanchion, as compared style stanchion, as compared with the old comes the serious difficulty that it of cerand lying down, and it is also geasy to unfasten. This stanchion was advertised in "The Farmer's Advocate"" last year
by the Baily-Underwood Co., New Glas

A NEW FENCE FACTORY.-The facCory of the McGregor-Banwell Fence
Company, Walkerville, Ontario, was reenergy and push that has but the same acterized this representative Canadian manufacturing concern, simply utilized
the disaster for an improvement of their the disaster for an improvement of their
facilities, so that now they have one of the best-equipped plants known. A late $\cdots$ It is not as bad as it might thelly says: We were fairly-well covered with in surance. The fire occurred on the 16 th another factory, and had the had built work weaving new fences by April 8th While a large amount of fence stock on
hand and a considerable quantity of
hard steel wire hard steel wire Was seriously quantity of damaged.
much of the fence and much of the fence and fence wire was
only slightly damaged, some of it only
in appeater appearance. This is on sale at reduced prices in order to move it quickly and make room for the new product.
This is a pointer on where to get fence bargains for a short time. All the fence
is the large wire ind fere is the large wire "Ideal., All the fence, made
of No. 9 hard steel wires mater of No. 9 hard steel wires. The Mc-
Gregor-Banwell people say they hope Gregor-Banwell people say they hope,
working double time, to be able to
all orders for new fence promptly

THE FARMER'S ADVOCATE.


Toronto, Canada.

$\begin{array}{|cc|} & \text { GOSsIP. } \\ \text { Fricial } & \text { Records }\end{array}$
Friesian Records of 120 HolsteinAmerican Holstcin accepted by the March 12 th to March 22nd, 1907, three being cfficial records begun not less than being semi-official records. All made thirteen made fourteen-day and nine made thirty-day records. The 6 years 5 months 19 days; days front 6 years 5 months 18 days; days from
calving, 24 ; milk, 468.8 lbs.; per cent. calving, 24 ; milk, 468.8 lbs .; per cent.
fat, 3.52 ; fat, 16.499 lbs. The first
eleven cows in the average in the seven consecutive days of
560.8 bs. milk, containing 20.918 d 560.8 lbs. milk, containing 2.9 .918 liss. of
butter-fat; showing an average of 3.73 per cent. fat.; an average of over 80 ibs.
or nearly 40 quarts milk per day, and Imost $24 \frac{1}{2}$ lbs. of best commercial but-
ter per week. per week.
Segis Aaggie De Kol Beets leads this
ne list of full-aged cows, with 25.645 ays, and 100.215 lbs . fat from in seven s. milk in thirty days; thus displacing Pietje 22nd for third place in the seven-
day division, but falling behind her in the thirty-day division, and gaining fourth place.
The followin
acluded in this report :
Rachel Schillaard Clothilde 64144, age
5 years 3 months 4 days; days age




 ing, 46 : Milk, 605.8 lbs.; per cent. fat,
3.44; fat, 20.837 Ibs. Fourteen-day
record, days from calving, $39:$ Milk. $1.194 .5 \mathrm{lbs} . ;$ per cent. fat, 3.29; fat,
39.247 lbs.
Owner, G. A. Gilroy, Glen
Rose Rattler 68640, age 5 years 8 months 6 days, days, frome calving, 46 :
Milk, 464.6 lbs, per cent. fat. 4.17 . Milk, 464.6 lbs.; per cent. fat, 4.17; fat,
19.359 lhs. Thirty-day record, days from
 ce, Tillsonburg, Ont.
Coral De Kol's Pet 50982, age 7 ' years months 12 days; days from calving,
$2:$ Milk, 449.0 lbs.; per cent. fat, 4.02; 18.044 lbs. Fourteen-day record,
days from calving, $7:$ Milk, 865.8 lbs. cent. fat, 4.10; fat, 35.540 lbs Carmen Sylvia 4 th 5 5月791, age
6 davs; days from calving, 44: Milk,
 Qe 5 years 9 monthy do days; days from alving. 39: Milk, 520.8 lbs.; per cent,
att, 3.21; fat, 16.674 lbs. Fourteen-day record.
days
from calving, $35:$ Milk,
lbs.; per cent. fat, 3.16;
fat, 2.269 lhs Owner, G. A. Gilloy.
Countess Chase 50913 , age 8 years 11 months 4 days; days from calving, 14:
Milk, 420.5 lhs.;
per cent. fat, 3.68 ; fat. 15.468 lhs. Owner, G. H. Manhard.
De Kol Madura Clothilde $57 \mathrm{Ma4}$. De Kol Madura Clothilde 57044, ege 6
years months 22 days: days from
calving, 26 : Milk, 3e0.0 lbs.; per cent.
fat. 4.03. fat, 4.03; fat, 14.492 lbs . Owner, G.
H. Manhard.
 Milk, 507.0 lbs.: per cent. fat, 8.24, fat,
16.455 ths. Owner, G. H. Manhard.

### 16.455 lbs. Owner, G. H. Manhard. De Kol Imperial Duchess 63940 , age

## aving, 15: Milk, 346.5 loys; days from per cent.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Netherland Lassie 72812 , age
months 20 days; days from
Milk, 252.0 ths.: per cent.
at, 10.023 ths. 0 wner $G$ HenRhoda Crowning Shield Colantha79747, age 1 year 8 months 18 days;
days froni calving, 25: Milk, 280.3 lbs.:

Mr. C. D. Wagar, of Enterprise, County of Addington, Ont., recently purchased,
from Mr. Peter White, of Pembroke, the choice young Shorthorn bull, Starry Morning $=58887=$. This is a grand aniWal, and should greatly benefit Mr
tife bullying lawyer.

$$
\begin{aligned}
& \text { Joseph H. Choate recently said, at } \\
& \text { lawyers' dinner: }
\end{aligned}
$$

lawyers' dinner:

$$
\begin{aligned}
& \text { We lawyers colidn't do better than } \\
& \text { resolve, on the new year, to be gentler in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { our cross-examinations. Rudeness in } \\
& \text { cross-examination never, never pays. This }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cross-examination never, never pays. This } \\
& \text { is a truth that I once saw proved in a } \\
& \text { damage suit. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { damage suit. } \\
& \text { "In this sui }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "In this suit a cross-examining lawyer } \\
& \text { shouted at a witness in overalls: } \\
& \text { ". Yon thate }
\end{aligned}
$$

$$
\begin{aligned}
& \text { shouted at a witness in overalls: } \\
& \text { "• You, there, in the overalls, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ". You, there, in the overalls, haw } \\
& \text { much are you paid for telling untruths ?" } \\
& \text { ". Tese than }
\end{aligned}
$$

$$
\begin{aligned}
& \text { much are you paid for telling untruth s } \\
& \text { "' Less than you are,' the witness re }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "' 'Less than you are,' the witness re- } \\
& \text { torted, 'or you'd be in overalls, too ! '" }
\end{aligned}
$$

The imported shire stallion, Birdsall

$$
\begin{aligned}
& \text { peared in "The Farmer's Advocate" Ap- } \\
& \text { March } 28 \text { Ath, has been purchased by }
\end{aligned}
$$

$$
\begin{aligned}
& \text { March } 28 \text { th, has been purchased by } \\
& \text { Messrs. Jonathan G. Moore and John } \\
& \text { Ros. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { p.-. address is Conn, Ont., for the sum } \\
& \text { of } \$ 2,500 \text {. } \begin{array}{l}
\text { Birdsall King }
\end{array} \text { was imported }
\end{aligned}
$$

$$
\begin{aligned}
& \text { of } \$ 2,500 \text {. Birdsall King was imported } \\
& \text { by Hamilton \& Hawthorne, Simcoe, Ont }
\end{aligned}
$$

$$
\begin{aligned}
& \text { y Hamilton \& Hawthorne, Simcoe, Ont. } \text { O } \text { Onhibited by them at the Canadian } \\
& \text { and en }
\end{aligned}
$$

$$
\begin{aligned}
& \text { National Exhiby thition, Toronto, Sandian } \\
& \text { Nate } \\
& \text { 1906. Whera }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 1906, where he won first prize. .in hi } \\
& \text { class, and championship as best stallion, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { any age, in strong competition, stallion, and was } \\
& \text { also first and champion at the Western } \\
& \text { Fair. Tondol }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Fair, London, 1906, and first at the On- } \\
& \text { tario Horse Show, Toronto, Feb., 1907. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { He was bred by Lord Middleton, Birdsall } \\
& \text { House, York, England, foated in 1904, } \\
& \text { sired by Birdsall Calinh }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Violet, by Grafton II. (18120). He comp- } \\
& \text { bines size with quality, weighing } 1,800 \\
& \text { lbs... coming three woar. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { straight, true. goer. The farmers, of } \\
& \text { Wellington, Grey and Bruce are to be }
\end{aligned}
$$

Wellingto, Grey and Bruce are to be

$$
\begin{aligned}
& \text { congratulated in having the services of sc sc in } \\
& \text { excellent a horse within their reach. }
\end{aligned}
$$

QULSTIONS AND ANSWERS. Miscellaneous.

## SALE OF UNSOUND COW.

$$
\begin{aligned}
& \text { A, being a cottle buyer, bought a } 10 \text { t } \\
& \text { f fat cattle from B. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { f fat cattle from B. A shipped them } \\
& \text { o Mcontreal. A young cow of the lot }
\end{aligned}
$$

$$
\begin{aligned}
& \text { was condemned as have having of the the lot } \\
& \text { The hide and inspector's certificate were }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The hide and inspoctor's certificate were } \\
& \text { returned to A. Can A compel B to re? } \\
& \text { fund rice }
\end{aligned}
$$

$$
\begin{aligned}
& \text { returned to A. Can A compel B to ref } \\
& \text { fund price of cow, or what is customary }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to do in such a case? Nothing said at } \\
& \text { time of sale about guarantee. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { time of sale about guarantee. B sold in } \\
& \text { good faith, thinking that cow was all } \\
& \text { rioht }
\end{aligned}
$$

$$
\begin{aligned}
& \text { yood faith, thinking that cow was all } \\
& \text { Ight. A. W. } \\
& \text { Ontario. }
\end{aligned}
$$

Ans.-Wo do not think that $A$ is in a
position to enforce a refund by $B$ of the ice paid enforce a refund by $B$ of the

RETENTION OF PLACENTA.
$\qquad$
for advice concerning cows write to you afterbirth, having six out of eight which
did so. They were fed clover har chop and roots all winter, and are tied cause for it, and a remedy you give any
Ans.-Sometimes A SUBSCRIBER.
existence of contagious abortion in the
herd. herd, retention of the pracenta being
more common in cases of premature
birth. commer birth.
though can assign no other cause, where the cows have been well fed. Not
knowing the canse, gest a preventive. A feed of oats heated
in the oven, blanketing in the oven, blanketing, and placing a
bag of hot salt over the loins, will often hasten the coming away of the placenta.
If the afterbirth does not come away in
24 hours it should 24 hours, it should be removed by intro-
ducing the oiled
right hand into the uterus, and, with the fingers and thumb, button-like cotyledons, while drawing the placenta gently with the left hand till it is entirely released from the buttons. It is wise to use carbolized oil on the
hands and arm to avoid blood-poisoning.
Anyone with a little practice Anyone with a little practice can success-
fully perform this operation, and it

The Ontario Farmers＇Weather Insurance Mutual Company
 Prosident，Wiliam Park；Vice－Proeident，W．A．Wansbrough
Policies in Force，2，300．Assets，$\$ 75,000,00$ ．Ineurance in Force，over $\$ 2,500,000.00$ ．

 ared by this Company，without being specially mentioned．


## STAMMERERS

## Stammering Positively Cured

The Arnott Method is the only logical method for the permanent cure of stammering and speech defects．It treats the cause，not merely the habit，and thus insures natural speech．The Arnott Method easily and permanently cures the failures of other institutes and schools．Full infor－ mation，pomphlet and references sent free upon request．Write today，

THE ARNOTT INSTITUTE，BERLIN，ONT．


## MITHS OVARY TONIC <br> When eggs are 40 c ．and 50 c ．a dozen，there

 18 good money in them．That is the timeYOU will have plenty of EGGS TO SELI if you give your hens Smith＇s Ovary Tonic
regularly once a week．
It makes hens lay，
It makes hens lay，Winter and Summer． of course，if you want eggs all the year
round，you have to give hens Smith＇s Overy
Tonic all the year round．Start NOw Tonic all the year round．Start NOW 25c．and 50 c ．a bottle．At dealers．a


IT IS not what your crop brings In this new country you can raise costs y it costs you to ra．
counts in farming． If you are farming on high－priced land under the most trying difficulties ＂－if your soil has begun to fail，and
your crops are not so large as they Your crops are not so large as they
used to be－if it takes so much high－ priced help to produce and harvest your crops that there is no profit left， you are
farming． larming．
Why don＇t you sell out at the
just suit you，and you can restassured prices you can sell out at the hi，$h$ that if you farm it fifty years you will Your cash in land where you can get for rain－no chance at all to take－ hive or ten times as many acres for
the money，of better，newer soil than a certain，sure crop every time
you put seed in the ground，and a that you own at present？bigger crop than you can hope to When you bought the farm you now
own，it was cheap－the rise in land own，it was cheap－the Why not do
values made you rich．Whe that same thing over again？ In Southern Alberta，Canada，is to you on terms that，we can sell it to be found as rich land as there is any－is no excuse for any man being
where where．It will r．ise anything that
your land will ran．．．．．with possibly Write a farm． one or two exc．ns．It is the let us tell you how to see Alberta


Qatatian Pac：ation Colonization Company，Limited， 109 Ninth． est，Calgarx．alta．o Canada．

Last year＇s lambe sold in Chicago
Stock－yards market，on April 8th，a
$\$ 8.50$ per c⿴囗十 $\$ 8.50$ per cwt．，and clipped ones $\$ 7.15$ ．

A Prolific ewe
ve belonging to Mr．Wm．Boyd Colvend，Scotland，has this year give birth to five lambs．Last year she ha
four，and the vear before three lambs； Your，and the year before three lamb
total of 12 lambs in three years．
At a meeting of the Directors of the held in Toronto，on April 3rd，Mr．H．M Robinson， 8 Albert St．，Toronto，Was
elected Secretary－Treasurer of the Asso－ elected
ciation．
In ordering a change of advertisement
Messrs．W．G．Pettit \＆Sons，Freeman Messrs．W．．${ }^{\text {G．．Pettit \＆Sons，Freemany }}$
Ont．，writet Ont．，Writet since we last wrote， report the following sales for the pas
two weeks：To Messrs．Peter Young Sons，Red Mountaif，Que．，the choice
yearling bull，Villager，of the Cruick－ yearring bull，
shank village Blossom tribe．This is young bull of grand quality，and as he
is to be used by a farmers＇club，he is to be used by a farmers＇club，he
shouid be a great benefit to the neigh－ shoula be a great
borhood he goes to．Messrs．J．L L
Red Pa．，came to buy a herd bull to take the place of the one they purchased from
five years ago．They selected the choic Broadhooks bull，Broadhooks Champion，
whose quality and breeding make him whose quality and herd．He is sired by
suitable for any herd．
our Princess Roval bull，Prime Favorite， our Princess Royal hull，Prime Favorite，
and his dam is a hall－sister to the re nowned bull，
after winning honors in Great．Britain，was exported
the Argentine，where he sold for the
highest price of highest price of any imported bull ever
sold in that country．They．also took the
show heifer Show heifer，hverne 12th．Messrs．Jos an extra good eleven－months－old bull ca
of the Marr Raan Lady family，whic was so much thought of in the herd o
the late W．S．Marr．A．A．Cunning and，selected one of our imported York－
shire sows． shire sows．She is a perfect type and
cannot fail to produce good results for
Mr．Cunningham． Mr．Cunningham．As our advertisemen
shows，we still have a number of bulls $t$
offer，and offer，and as we have a large crop o
young calves coming along，we are offer
order to make more room for this sea－
son＇s crop．Any persons in need of fe－
males for either show or breeding pur－
poses will do well to visit us before pur－
poses will do well to visit us before pur
chasing．We are also offering a choice Your－year－old impor
due to foal May 1 s．

## TRADE TOPIC

PROTECTION FROM STORM．－One of forests of the country has been to in crease the number and viclence of storms
with consequant with consequent oss the prmersty．＂The The
the destruction of their propert
Farmer＇s Advocate，＂in season and out of season，has，therefore，been urging re
oresting and the preservation of existing wood－lots．But the work of restoration tornadoes do not abate．As elsewhere， Canadian farmers find it now a needful precaution such losses，inst as they do
against
against fires，and on the same principle against fires，and on the same principle
How this idea is growing may be seen frow the fact that the Ontario Farmers＇
Weather Insurance Mutual Company，of Wrand Valley，Ont．．organized a a few years ago on a strong basis，has now in
force no less than $\$ 2,500,000$ insurance on such properties as houses，
vehicles，implements and li atter are also covered against loss
damage through the blowing down damage through the blowing down of
trees．It is purely a farmers＇company，
the officers being Wm．Park，President； Wm．
Manag
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Baby Was Chookng With Cold in Ches

Parents in Great Anxiety，When Turpentine Was Obtained an Brought Quick Relief and Cure． Mr．W．F．Smith， 864 Nepean St．，
tawa，Ont．，writes ： tawa，Ont．，writes ：＂My sister＇s littl
baby，Albert＇McDermott，four months age，was so bad with a cold on the chest
that we were afraid he would chole death．Dr．Chase＇s Syrup of Linseed an Turpentine was obtained，and I an happy to say that it brought relief al ${ }^{\prime}$ ．The baby use of three bottles，and my sifter and her husband are very grateful for this cure．We
medicine．＂
Plenent Pleasant to the taste，and composed of simple，yet powerful，ingredients，Dr is especially suited as a treatment for children suffering from croup，bronchitis whooping cough，and severe coughs and colds．
Beca Because there are imitations of Dr
Chase＇s Syrup of Linseed and Turpentine be sure you see the portrait and signa－
ture of Dr．A．W．Chase on the bottle you buy ； 25 cents a bottle，at all doal
ers，or Edmanson，Bates \＆Co．，Toronto


A delicious drink and a sustaining food．Fragrant，nutritions and economical．This excellent Cocoa maintains the system In robust health，and enables it to resist

COTTAM BIRD 8EED 38 Bathurst Streer．Lordon，Ontario．

Now is the Time to Ship Butter，Eggs \＆Poultry．

QUEEN CITY PRODICE COMPAMY ITD QUEEN 100 Front 8t．E．，TORONTO．

APKIL 18. 1007
TRADE TOPICS.
$\qquad$ Everybody is interested in home-building these days. For that reason, our readto Chas. W. Killer's new residence, Preston, Ont. The house is 29 feet by
feet in size, including bay window eet ${ }^{\text {in }}$ size, including bay window
The spacious double veranda not counted in these measurements. The house contains seven large rooms, with a
bath-room which could be utilized as a single bedroom where there are no throughout, is ash, with weathered oak
finish. There is a fine cellar ( 7 feet clear of the joists) under the entire house, and the garret is large enough for three good-
sized rooms. The exterior of this house, which is strikingly handsome in appearance, is finished entirely with galvanized
steel, except for the veranda railing, steel, except for the veranda railing,
which is of wood. The Metal Shingle \& Which is of wood. The Metal Shingle \&
Siding Company, Limited, of Preston,
Ontario, supplied the deep stone siding Ontario, supalied the deep of Preston, siding,
Safe-lcck shingles, window and door Sntario, supplied she wiep stone siding,
Safo-lock shingles, door
caps, and all the ornamental metal work caps, and all the ornamental metal wor
on the building, and they have built
number of residences in Preston number of residences in Preston along
similar lines. This house stands on a hall-acre lot, and the cost, complete, in
cluding the lot, was only $\$ 2.034$. was built last summer.
A GREAT HORSE REMEDY.-Ken dalis in a small way about 30 years ago
usgd
by Doctor B. J. Kendall, in the then obscure
Since thage of Enosburg Falls, Vt Since then the name of Kendall's Spavin
Cure has gone to all parts of the world. The merits of the remedy have done it While Dr. Kendall was practicing, he
wrote a little book entitled "A Treatise Wrote a little book entitled "A Treatise
on the Horse and His Diseases," which on the Horse and His Diseases, which
was originally handed out to the horsemen with whom he came in personal contract, and it said that upwards of $1.2,-$
000,000 of these little books have been published and gratuitously distributed. The cures of spavin, curb, ringbone,
splint. wire cuts, sores, etc., and the expense and labor saved to horseyond comprehension. For the greater
part of these 30 years, Kendall's Spavin Cure has, with thousands of horsemen,
been the only remedy used for its pur been the only remedy used for its pur-
pose. It is not confined to North America. It is decidedly a world above to guide, and with Kendall's
Spavin Cure at hand to treat promptly any case of sprain, wound, lameness, incipient bone growth, etc., the ordinary
horse-owner is well fortified against all horse-owner is well fortified against all
the common ailments to which horseAlesh is liable. It is unquestionably an
efficient remedy, and adapted to the cure of a wide variety of horse ailments-
more, the manufacturers claim, than any aore, the manufacturers claim, than any
ther in the world.

GOSSIP. Mr. J. W. Burt,
reeder of Aberdeen-Angus cattle,
Orites - We have recently been doing a little
business, and our sales have been very business, and our sales have been ver
satisfactory. We shipped last week to Mr. John Eldridge, of Hepworth, one
bull and one cow, and to Mr. Albert Maw, of Horning's Mills, one bull and an in the Angus circles, and is a firsta fine lot, and they will, no doubt, give
a
a good account sold one bull to Mr. Norman McLaugh lan, Caledon P. O. I think probably the
people have been holding back until spring to make their purchases. We have
four nice young bulls yet. $\begin{aligned} & \text { The } \text { imported } \\ & \text { shood } \\ & \text { Drayman } \text { stallion, Berry- }\end{aligned}$
e

Gocsip.


#### Abstract

Park, Burgensville, Ont. recent auction sale Crites that his recent auction sale of highost price was for a pair of yearling ewes, prizewinners at the leading fairs last fall, which sold for $\$ 150$, bought by A. B. Moore, Otterville. Mr. Moore bought ten head; one choice ram at a good price, from imported stock: $\mathrm{Mr}^{\mathrm{Mr}}$ Woolnaugh, Pt. Dover, bought some highWoolnaugh, Pt. Dover, bought some high- priced ones. The 50 ewes sold, including ambs, averaged $\$ 22.50$. Only a fow rams were sold, but at good prices.

Mr. Hugh Thomson, St. Mary's, Ont. writes: "I send change of advertise ment, as I have sold all the young bulls ment, as I have sold all the young bulls I advertised. Mr. Jos. McMillan  the red bull, Nonpareil Kuroki. To Mr. Harvey Scott, Cobble Hill P. O., Ont., $\begin{array}{cc}\text { went the } & \text { roan Clementina Lancaster } \\ \text { =63870 } & \text { To Mr. Joseph A. Lang, } \\ \text { St. Mary's, the richly bred voung Broad }\end{array}$ St. Mary's, the richly-bred young Broad, hooks bull, Roan Champion $=64617=$; to James Kyle, Ayr, Ont., the yearling heifer, Rosy Cloud $=78479$, woild heifer, Rosy Cloud $=78479$. Woild ad- vise all breeders to advertise in • The Carmer's Advent Farmer's Advocate.'

Mr. Wm. Colquhoun, of Mitchell, Ont., the well-known importer horses, reports the demand for the right sort of Clydesdale stallions and fillies as experience, his two importations in the last six or eight months being all sold and distributed over a very large extent of country, which very satisfactory of country, which very satisfactory state of affairs he, to a very large attributes to his a very large measure, Farmer's Advocate." He is now offering for sale the high-class Hacknoy stal- lion, Imp. Davie, an eight-year-old chestnut son of Dainty Boy, and out of that great show mare, Fantail. He is a horse of extra quality throughout, an all - round natural actor, and all - round natural actor, and one of the best-broken horses in Canada. A child can drivo child can drive him, and, as a sire, he has had few equals in this country. He has had few equals in this country. He is safe, active and sure, and can be

IMPORTED SHORTHORNS BY •AUC


On Thursday, May 9th, the farmers of this country will have an excep-
tionally favorable opportunity of buying choice imported Scotch Short
horns by auction, as on that day, as vertised, will be sold by auction the entire hard of Mr. W. J. Thompson, of
Mitchell,
Perth Co., Ont., a Mitchell, Perth Co., Ont., a few miles
west of Stratford, on the Goderich west of Stratiord, on the Goderic
branch, G. T. R. The importing of branch, G. T. R. The importing of Shorthorns is, for the present, imprac-
ticable, as they are worth much more money in Gredt Britain than they are
worth here, consequently none are being worth here, consequently none are being
imported, and none are likely to be for some years at least. In Canada, just now, good Shorthorns are selling for
prices that place them within the reach of the average farmer, and the prospect is that they will soon be selling much
higher, as recent sales in the United higher, as recent sales in the United prices, and the heavy losses of cattle in the West, owing to the serere winter, will raise the price of beef cattle and of
Shorthorns for breeding purposes. Shorthorns for breeding purposes. Mr
Thompson's herd consists of 35 head of straight Scotch Shorthorns, 16 of the cows being imported, and all very richly
bred, all in splendid condition, and either well on in calf or having calves at foot. well on in calf or having calves at foot.
The balance of the herd are sons and
daughters of these-young, a few days to daughters of these-young, a few days to
two years of age-and all got by his two years of age and all got by his Fuller particulars of the breeding of this gilt-edged herd will appear in next week's
issue. The terms of the sale are six
months' credit, or five per cent. off for months' credit, or five per cent. of for
cash, and conveyances will meet all
morning trains at Mitchell Station on

THE EVANS VACUUM OAP is a practical invent scientifio and hygienic principles, by the simple means of whiol on on and normal circulation is restored throughout the maolp. The minute blood vessels are gently stimulated to aotivity, thus allowing the food supply
which can only be derived from the blood, to be med Whietcan only be derived from the blood, to be carried to the hair roots, the
ffiect of which are quielly seen in a heallthy vigorons grow There is no rubbing, and as no drugs or chemicals of whatsoever of hair. employed, there is nothing to cause irritation. It is only necessary to wear
60 DAYS' FREE TRIAL! The Company's Guarantee.


 rury


 Dr. W. MORRE. reforring to the invention, Eays thet the primolple upon An illustrated and descriptive book of the Fovans. Vacuum Cap will be sent, poifl THE SECRETARY, EVANS VAGUUM OAP GO_, LTDo,

GIENT HOUSE, Regent St., London, Eng

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and hollows, the tension
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To be sold by Public Auction at the FRASER HOUSE, King Street, London, Ont., on
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Eighteen extra choioe imported Clydesdale mares and fillies, several of which are in foal. This is an essentially high-class lot, with abundance of size and quality and very richly bred. A number of them are show animals, and, we think, the best lot we ever imported.

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CAPT. T. E. ROESON,
JAS. DALGETY,
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It means most profts with least labor. Send a post
carad now, we waut to prove it to you at your own home. the canadian manufacturing co., ltd. 182-186 bhearer st. montreal. canada.
Price. 885




OUESTIONS AND ANSWER: Miscellaneous.
CUTTING SHADE - TREE I have maple shade trees along road,
inside fence.
Please inform me if Telephone Co. or electric-light company
has any right to cut limbs off those has any right to cut limbs off those
trees, where limbs extend over fence on trees, where limbs extend over fen
roadside and interfere with wires? Ont. Ans.-We think so. The cutting must
however, be done judiciously and uit necessary damage avoided
SMALLPOX QUARANTINE How long can a health officer, or a $M$
D., keep a man quarantined after bein exposed to smallpox, provided there is
no sign of development the 15th day no sign of development the 15 th day
after exposure? after exposure? A SUBSCRIBER. Ans.-The period of incubation is 12 to
14 days, and it is formed, to detain one longer than that after being exposed, but no time is speci-
fied as a maximum period of quarantine fied as a maximum period of quarantin the matter heing ler
the health officer. A owns house. B has it rented for
$\$ 75$ a y year, and has lived in it for
several years. His year is up on June
1st. A wants to raise the rent. What 1st. A wants to ra
notice can B claim? Ans.-B appears to be in the position
now of a tenant from year to year, and now of a tenant from year to year, and,
as such, entitled to half a year's notice
to quit-the period of such notice en quit-the perion of such notice
end with some vear. of the tenancy. It
follows, therefore, that he cannot bo
legally required to leave the premies legally required to leave the premises
pay a higher rent for same before Ju
pas pay a highe
1st. 1908.
LUXATION OF THE PATELLA Caps on colt's stifles are loose (noticed
When two months old), on part of the time, and off part of the time, according
to how it walks. Is not lame, but has
and not the proper use of its joints. Ther
are small puffs in front of stifle both alike. Is there any remedy for it,
will they come right in time ? Ans SUBSCRIBER. or partial dislocation of the stifle joints, Keep quiet in a comfortable box stall,
and blister the joint on the front and
inside Ye inside. You may have to repeat the
blister several times. and it is probable
it will come all right in time. CLEANING BRASS MOULDINGS Could you please give me a recipe fo
cleaning brass picture moulding? Ans.-Brass may be cleaned as follows
Rub the surface of the metal with rot tenstone and sweet oil, then rub off wit chamois. Tarnishes may be removed by a solution of oxalic acid. The acid must
be washed off with water, and the brass
rubbed with whiting and soft leather. rubbed with whiting and soft leathe
The above mixtures must not be used o
gilt, only on brass mouldinge mouldings may be cleaned by washing
with old ale, or by rubbing with oil o turpentine.
THE LAW'S DELAYS. 1. In regard to cases in the Court
Chancery, is there a limit of time
which they Chancery, is there a limit of time in
which they are to be settled? If so
what is the limit? 2. Can the defendant urge a settlement
at the expiration of the time? If so
how would he proceed? Ontario.
Ans. -1 and 2 A Subscriber. Chancery now in the Province of on
tario. Its successor is the High Count Justice. And there is no arbitrarily
fixed period of time within which a cas

$\$ 10$ and Up Per Acre

 to
COMPLETE FARM FOR $\$ 500$
 Tr rite for orr teanutifal pamphlet, lists of farm
and exzcursion rates.
F. H. LaBAUME,


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            ANW NORFOLK&WES
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            ANW NORFOLK&WES
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Doyou wear a Truss?
Name.....
Address...

## Ingleside Herefords, <br> for sale $\left\{\begin{array}{l}\text { COWY } \\ \text { HEIFERS } \\ \text { CALYES. }\end{array}\right.$

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Hackney Stallion, Calvin A. H. S. B. 306,

By the chanpion Matchless of Londesboro and
مyt of ch mpion mart. D.umar hy benmark
For partioulars addre s: SHELBURNE


40 WAVERLY HACKNEYS 40

1
Imported Stallions and Fillies.
 and

ROBERT BEITH,
Bowmanville $P_{1} O$, and Station. Long-distance 'Phone.

## 323 PERRHEERONS FRENOH COAGHERSS

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DUNHAM \& FLETCHER, Wayne, III.

CIdesoale $\begin{aligned} & \text { I have on hand for sale another } \\ & \text { choice lot of Clydesdale stallions }\end{aligned}$ -T-first-class Hackney. Wm. Colquhoun, Mlitchell, Ont Phone to mesidenoe.

Graham \& Renfrew's
CLYDESDALES and HAOKNEYS


BKAHAM \& RENFREW, BEDFORD PARK ONT,

Ancthon Bale of


Conatamentreollitiod, orrverondence
 Clydostals Stallions and Wares, For sale: Lyon Biomatigraen,
to meli known in Canadian show ringst town need anyaia
nient. Tho Nobleman (imp.

 H. G. Boag. Barrie, Ont. SHETLAND PONIES! porrorioullouth ion. Brodert, ind im


 Imp. Clyidesidale Fillies!


 old atalition. W. Imported Clydesdales

 right. Tormu to suil noll thow
$\qquad$ coo. e. Stewert, Mowlek, Ouo. Fir Sale: A Registered Clydesdale stallion















MAMILTON \& HAWTHORNE, SImcoe, Ont. milles sonth-west of Toronto on the G. T. B.


Clydesdales, Percherons and Hackneys


 Ite-brize and championship hors
reasonable and on torms to suit.
DR. T. H. HASSARD, Millbrook P.O. and Stn.
GRAHAM BROS.
"Gaimbrodie," CLAREMONT, nсровлвв or
HACKNEYS and CLYDESDALES
Instablighod 80 Years, and winners at all large ahown In Canada and United States. Besto of stook salway
on hand for sale. New importation of Royal winnent just arrived.
W. C. KIDD, LISTOWEL, ONT. Importer of Clydesdales, Shires, Peroherons, Belgians
Hackneys, Standard-breds and Thomoughbreds Hackneys, standard-breds and Thoroughbreds



BMITH \& RICHARDSON,

2COLUMBUS, ONT
bike and on on hand a ohotioe selootion of Clydoedale Stallions, combining


Imported Clydesdale Stallions and Fillies. Having sold most of my last importation of CLYDESDALES, I an
leaving for Scotland for another importation of stalliong and mares
 columns of "The Farmer's Advocate.". Come and see me on my
return.
Andrew Aitchison,
Guelph, Ontario.
Whan Writing Plaase Montion Advocato

INSTALIING AN INDEPENDENT The TELEPHONE LTNE.
 ose building 20 miles, with $\left.\begin{array}{l}\text { about as } \\ \text { many } \text { 'phones to start with. } \\ \text { We expect }\end{array}\right\}$ to extend our line from time to time,
and put more 'phones on the present pro-
 direct from Alexandria to NcCCrimmon;
three-mile branch from Laggan to Kirk Hill, and an eight-minete branch from
Fassifern to Glen Sanfield our town, and wo are getting connection
there with the Bell long-distance and the there with the Bell long-distance and the
different phones in town. 1. Will you kindly advise us what
2. Do we need a central?
3. What would be reaso
charge stockholders. $\begin{gathered}\text { non-sto colktes to } \\ \text { not }\end{gathered}$ and those taking 'phones in their private 4. Any other of business? fleased to give, will be thankfully
ceived.
 2's Advocate," pages 169,203 and 253,
254, of the Jonuary and February issues your this year, you will find answer to
question.
By all menas buil a metallic line if your finance will a 2. With twenty miles of line (metallic)
and
twenty and wenty instruments properly in-
stallect, you ought to experience no dift culty in being ough to experience no dim-
20 subscribers. able to call any of your better servicice by bavinge, you can give
baly about 10 subscribers to the line. But if it io it
your present limit, I would not instal
centrot


## THREE TRYING WONG TIMES IN

 A WOMAN'S LIFE Thare are throe poriods of a woman'r lifo Whin the in in need of the hoort strongthtningo marve toning, blood enriching

## MLLBURN'S HEART

AND NERVE PILLS
The first of thees is whon the young girl

 arower, and unleem har hailt hit bilit an forlilt toconumption or bes moak womac or ilie
The second period is motherhood. The train on the aytum in great and the or-
haunted morve forco and depleted blood require replenihhing Milburn'is Heart and Norve Pillis supply the elomente neodod to

The third portod is "ohange of lifo" and alin ie the poriod when whe in most liablo whart and norvo troablon talking pleoe in ato ayetom, and it in at this time many olfronie diveases manifost themselvee Tortify the hoart and nerve system by the
are of Milbarn'l Hoart and Norve Pillis and theue tido over this dangerous period. Mre Jemes King, Cornwall, Ont., writon: ", troublo-the eanase being to a grest exten dee to "change of lifo." I havo been takling Milburn's Hoart and Nerve Piiius for some man truthfully seal thoy aro the boest remod Iharo over ased for building up the syytem.
You are at liberty to uso this statement You are at liberty to use this statemen
for the benefit of other sufforera" Prioe 50 oonte por box, three boxes for pl.25, all dealore or TT3

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 Put Good Grazers on Youf Grass !
 The HEREFORDS are the
range cattle par txaellene.
They grow near the ground.
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easily, and they will make
 A. S. HUNTER, DURHEMM, ONTARIO. Sunnyside Herefords





## Broxwood Heroforics

Cows, heifers and calves For Sale.
R. J. PENHALL, Nober, Ont. FOREET VIEW FARM HEREFORDS

 HEDEFORDS - We are now offering a fow

 READ THIS ! $\begin{gathered}\text { We are offering a } \\ \text { dark red Durham }\end{gathered}$ bull 14 months old. weighing 1,000 ibs., for 875 .
A two-vear-old bull bul light roan heavy boned.



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## CAREY'S $\begin{gathered}\text { fexmerir } \\ \text { cenkit } \\ \text { ROOFING }\end{gathered}$







The Philip Carey Mig. Co., Toronto (Ont.) London (Ont), Montreal (Que.)



QUESTIONS AND ANSWER QUESTIONS AND ANSWE
Miscellaneous
TIME FOR PRUNING. At what time is it best to prune appl
trees? Also, at what time is it best $t$

 been done this year, and it will prob-
ably continue for the next two or thre weeks. Some kinds of trees bleed much
more than others when prume spring. This bleeding is simply a loss of
sap, due to strong root pressure, ond is
not nearly so serious vitality of the trees as some suppose, al
though, trees should be tapped is not bos sestere that
prevent excessive loss of sap, it is is heavy lead paint. This, also, protects
the wound from entrance of spores, whit
cause decay, and tent causè decay, and enables the wound to
heal without serious injur CRANBERRY CULTURE. Where can I get a book on cranberry
culture, as I would like to grow them, if
grown from canes, like currants, or
cranberry culture is is given in a a "Report
on Cranberry Investigations in Wis
sin ",
 be obtained upon application to to the
Director of the Experiment Station, at
Madison. Wisconsin.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

 STAVE-SILO BUIIDING. Was thinking of building a stave silo Wis summer.

1. Would hemlock lumber be as pine?
2. Would it be much better to build it with 30-font lumber, instead of lum-
ber 14 feet and 16 feet long? 3. Is it necessary for the lumber to be thoroughly dry before being used, and the hoops tightened as it dried?
Would like to and Would like to see some articles abour
stave silos when you are discussing the stave silos when you are discussing the
corn question. 4. Can you give me the name of a
good book on silo building, and where can it be procured? building, and where
Ans. -1 . Hemlock is for silo-building, though it may be used for the purpose. It is not so durable,
and is more liable to check. $\left\lvert\, \begin{aligned} & \text { and is more liable to check. } \\ & \text { 2. Thirty-foot staves are better than } \\ & \text { shorter ones ininted but not }\end{aligned}\right.$ shorter ones jointed, but not enough bet--
ter to be worth the extra cost. By bevelling the jointed ends, and by al-
ternating the short and long staves, putternating the short and long staves, put-
ting first a 14 -foot stave on a 16 -foot one, then a 16 -foot on a 14 -foot
one, an excellent silo may be bult 4- and 16 -foot sturf. There may be ma
little waste at the joints, but not much 3. The lumber need not be thoroughly seasoned. Some use it green, and tighten
hoops afterwards as hoops afterwards, as you suggest. It is
better, though, to have it partially sea soned before erecting. Crops and En
3. Soiling, Soiling silage, by F. S. Peer, price $\$ 1$, through
this office. The Central Experimental this office. The Central Experimental
Farm, Ottawa, published a good bulletin on the subject some years ago, which
could probably be obtained yet for the


BREED UP!
Get more eggs when eggs sell
high-raise chickens that grow high-raise chichene thatgrerow
faster, mature younger-make faster, mature younger-make
our pointry PAY BETTER.
You can do these thing with You cando thees things with
birus. (silgelo fowls trios or
pens-fair-pricod) from our pens-fair-priced) from our
BRED, olean
STANDARD
 Barred Plymouth Rocks
White Plymouth Rocks Buff Plymouth Rocks
Silver Laced Wyandottes Silver Laced Wyandottes
Golden Wyandottes Buff Wyandottes
Single Comb Brown Leghorns Rose Comb White Leghorns Buff Orpingtons WORte for our FREE BOOKLET, that tells why each
breed is bets of its ind and
why our birds are
 HATCHING EGES by the estings and
hundred, att prices
woun
ont
grow
 plan that makes
poultry-risisigg anfor
and more prontable. Able editor of this

 POULTRY YARDS of Canada, Limited, Dept. 17, Pembroke, Ont.


## SUCCESS DIIRY FEED

$\triangle$ OORN AND OAT FHED. splemndid valum.
$\$ 17.00$ per ton, in saoks on oaser at Woodstook. Write for man WOODSTOCK CEREAL CO., LTD. Woodetook, Ont.
 Roan bull, juat. 8, jearr old, , purohaed from

 D. ALLAN BOL Darkiliaulanand priee Writo

- HE only modlum whloh oonveys weekly to the fanm tisere place of busine adyome Fermornis Advoonte and fith Matazine.





## Belmar Parc Shorthorns

WE think we have as great a lot of young show animals as has ever been one farm in Canada. Our herd is large, the individuals are ahoice and e richest Scotch breeding, and our pios 25 heifors under spree years. A splendid group of breeding and show mate Mostly in calf to the champion Marigold Sailor $=53258=$ and the prizerin Nonpareil Archer (imp.) $=45202=$. Pembroke is on the main line of prizewinning and the Canada Atlantic Division of the G. T. R. You can leave Toronto C. P. R arrive Pembroke $12.05 \mathrm{p} . \mathrm{m}$., see the herd, and arrive Toronto next morning at 7 m., We prefer you to see the cattle, but if you can't spare the time we take specis] in filling mail orders satisfactorily.
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R. A. \& J. A. TVA"以 Offer at reduced prices two highly-bred red
QEHORTAEEORN BULI OALYEE
They are the last pair they hive to offer, and are not the poorest of the great dozen they sola Elora Station, G.T.R. e C.P.R. 'Phone 42K.

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AT "MAPLE SHADE" Our young bulls are the best that our herd has ever produced. We can come that should produce the best prime steers. We have a bull
OHN DRYDEN \& SON, $\qquad$ Rmookllm, Ont.
Valley Home Shorthorns and Berkshires



s. J. PMARSON, BON \& COMPERY,


Speclal Offering of Scotch SHORTHORN BULLS

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SIX IMPORTED SHORTHORN BULLS


ROBERT MILLER, stouffyille, 'ONTARIO
Pure Scotch Shorthorns
19 Bulls. PRESENT OFFERING. 75 Cows and Helfors.

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## Clover Lea Stock Farm

 SCOTCH SHORTHORMS ain R. H. Rill. Pive river, ontario. STRUAN SHORTHORNS

For sale: Ohoice young bulls from foar
to ten monthe old, sired by Scottibh Bear



Emprior. h. B. Robertbon, JOHN LE \& SONS, Highgate, Ont
 shorthorns a lincolns The ohampon hotd ot Rybly


Shouthopns gamporid


,


SHORTHORNS
 CLYDESDALES Two mares 5 years old, one an ex
and a pair of keldinge 4 years old.
JAS JAS. MCARTHUR. Gobles, Ont. Shorthorns for sale-Five ohoice balls, all from imp. dams I also fmales of all ages. otiland's Fame (imp.) at head of herd.
ALEX. BURNS. Rockwood P.O. and G.T.R. Sta Maple Hill Stock Farm $\begin{gathered}\text { Scotch Shorthorn- } \\ \text { gpeciiol offering }\end{gathered}$

 orihorn Bull-


QUESTIONS AND ANSWERS. Miscellaneous.

WHAT IS THE ENCLOSED
SAMPLE OF SEEDS ? What is the Oncl
$\qquad$ Ans.-The material has been examine at Ottawa, and found to consist of smal
plates of brownish-yellow mica of no ic value.
WRITING SONGS FOR MONEY Would you please give me your opin conducts business such association, that sheet describes? An aged friend mine has the knack oof agaking friend of and was induced to send some of her productions to them. Then they wrote money, they would geve herm half of thec profits of the song, etc. I advised her
to have nothing to do with them. to have nothing to do with them.
(MRS.) M. J. T Elgin Co., Ont.
Ans.-Your advice was sound.
doubtful if your friend would ever see her
deposit again, or deposit again, or get any return from it,
We are advised by reliable music house that the demand is very masic houses
"" big." for contributed songs. The leat
The lead big," for contributed songs. The leat ing music houses of America have thear
own paid composers, who receive a royal ity on productions that "take," and compared with the volume written. The ear-marks of being run off on a printing
press, and distributed press, and distributed indiscriminately
wherever persons can be induced to drop Wherever persons can be induced to drop
penny in the slot. SELLING GRASS SEED TO Is it legal for a farmer to sell grass
seed, which has not been tested, to a dealer? Which party is liable to be be
fined?
OLD SUBSCRIBER. Gined? OLD SUBSCRIBER.
Ans.-It is as legal for any person to sell
grass seed, or any other tind grass seed, or any other kind of seed,
which has not been tested, so long as such seed will conform to the provisions
of the Seed Control of the Seed Control Act. In provisions
of seed to a seed vendor sale or seed to a seed vendor or dealer, farn
ers are hetd to the observance of the Act
except when such $\left\lvert\, \begin{aligned} & \text { except when such seeds are to be cleaned } \\ & \text { or graded before being offered for sale } \\ & \text { for the purpose }\end{aligned}\right.$

Maple Lodge Stock Farm 1854-1907.
Am now offering agrand lot of


a. w. smith, maple lodge, ont Six Red Shorthorn Bulls




## J. T. GIBSON, Denfiold, Ont. GIVL HERD of high-aleen

## SHORTHORNE

We offer for sale 8 young bulls, a number
of ther for from imp. sire and dam alo
fomales with calf
 R. Mitomell a soms, Welson P.O., Ont.; Burlington Jumo eth
T. DOUGLAS \& SONS


 John Gardhouse \& Sons,



 EENWOOD STOCK FARM, 8HORTHORNS.

 of ohooome braed, and other bulls; also heiliar
oigs just oft the ing. A fow ohoioe Borkehtr h hinime bros.,
seed ve say is a simple thing,
The germ of a flower or weed But all earth's oforkmen, laboring With all the help that wealth could Never could make a seed. Look for the best, and the best shall
-ise up always to reward you.


35 Head Imp. Scotch

## Shorthorns

## BY AUCTION

At his farm, "Hollymount," $3 \frac{1}{2}$ miles north of Mirchell, Ontarlo, or
Thursday, May 9th '07


Mr. W. J. Thompson will se'l his entire herd of 35 head of Scotch Shorthorn cattle, including the stock bull, Imp. Rustio Chief,
a roan 6 -year-old son of Clan Alpine. Sixteen of the cows are imported, a roan 6 -year-old son of Clan Alpine. Sixteen of the cows are imported,
the balance sons and daughters of theirs, all got by Ruastio Chief. Nearly the balanoe sons and daughters of theirs, all got by Rustio Chief. Ne
all the cows have calves at foot, the balance heavy in calf. All are
splendid condition, of modern type and richest breeding. See Gossip.

TERMS-8ix months' oredit on bankable paper, 6 per oent. per annum off for cash

Conveyances will meet all morning trains at Mitohell.
CAPT. T. E. ROBSON
JAMES ${ }^{\text {jONES }}$ Auctioneers. Cataloguee on application.
W. U. THOMPSON, Prop., Mitchell, Ont.


SHORTHORN FEMALES.

 RUA THOMsOn, Box BEE.
SUNHYSIDE STOCK FARM


 JAMES GIBB Brookedale, Ont ATHELSTANE SHOATHORNS
 the Bruce. Kanckle Duster, Vicar 3illige-bre a. yo bruce M
yoang bull
reasonatble. om 6 to 12 moniths old. Prices
Wox. WALDIE,
B24, Stratiord, Ont.
Sunny Southern Alberta
 Te Grand climate. No irigg
of fuel famine. Cheon land, and
$20 \%$
form 5i feet from stanchion to drop; then
a six-foot manure passage, with sloping gutter, say a foot wide, on each side 18
feet in all); then another row of stalls with 5 -foot platform; then a 5 -foot feed
passage; then a row of stalls for smaller cattle, with a 5 -foot platiorm; then an-
other 8 -foot manure passage; then a row of this stable would be 38 the capacity The two rows of stalls for large cattle
would each allow for four double stalls, Wheur wide. The row for smaller cattle
fould accommodate four doulle stalls, 6
woul feet wide, and a single one besides, or
perhaps, 5 double stalls might be gueare in. This would allow for 25 or 26 head
in stalls.
The box stalls would 12 or 15 young cattle and calves. Doors
for driving through should be not should be $3 \frac{1}{2}$ feet. Sixteen inches makes
$\qquad$ be to have one full row of stalls length wise (except for across feed alley, op-
posite root cellar), row of stalls opposite, filling out tha
remaining space with This would accommodate, say, 24 head calves and young cattle in the box stalls.
The total capacity of 34 head would the be a little less than with the layout first
described, but not very much. Iar end; then a row of stalls, with pla

OURSTIONS AND ANSWERS,
Miscellaneous.
What isIFY.
She What is the reason I can't grow
salsify ? For the past three years, the
root has been a hairy thing, with ${ }^{\text {a }}$ a thousand small rootlets, instead of the
straight taproot it should be.
Other crops grow on adjacent plots-most ex-
cellent turnips cellent turnips and good potatoes, but I
am disgusted with the salsify. J. W. B. Ans.-The difficulty lies in the char-
acter of the like parsnips in requiring a deep and
well-nrepared well-prepared soil. If the land is shallow; that is, if the plowing is shal-
low, or even if it is not well prepared to a good depth, the main taproot is
very likely to break up into a large numer of small ones, as your correspondent
describes. Even a lump of earth, if it describes. Even a lump of earth, if it
lappens to be directly under. the crown
of the salsify plant, and if it is fairly hard, may have the same effect. If it is
vossible to select a good, friable, loamy oil, and have this deeply and thoroughthe trouble. The soil should be rich
ailso, and kept well cultivated, espectally during the hot, dry weather of midsum-
mer, as salsify needs a cool soil, and should make a steady growth to give the best results. I can see no other reason
than some soil diffculty to account for than some soil difficulty to account for
this lack of success, as I have myself grown excellent salsify at Wolfville, only 18 miles from Windsor, year after year. The only other possible explanation
would be seed not grown with sufficient care given to selecting well-formed roots from which to grow the seed the second
year, salsify being a biennial of course year, salsify being a biennial. or course,
this is a matter for the seedsman; and could only be obviated on the part of the grower by care in selecting his seed
fealer. ARRANGING BASEMENT STABLE
 Want to stable as near 45 cattle as pos-
sible, and wish stables arranged with sitble, and wish stables arranged with
manure passages wide enough to drive through in cleaning out. Would like a
few box stalls. Please indicate the best way of laying out the stable, giving, also, width of doors necessary. There is
to be a roat-house under approach to be a root-house under approach at one
side of the barn.
J. J. Ans.-To have two rows of stalls
lengthwise, and a row of box stalls besides, would be the ideal arrangement but in this case it would make too close quarters. Perhaps the very best way
therefore, to secure maximum stablin space will be to have a five-foot, alleyway
along the side on which the root cellar is along the side on which the root cellar is
and have three rows of stalls extend across from this passage to the o posite wall. This, will leive room fo
three rows of stalls, and a row of bor three rows of stalls, and a row of boxe
across one end. $A s$ to dimensions, w



Zam-Buk is oompounded from pure
herbal extracts, is highly antiseptic and applidi to a wound or sore kills all bacilli and diseas germs which otherwise set up
foistering, blood poison, eto. It heels cuts, farterning, oackles, bruises; and cures eozema prairie itch, salt rhoum, poisoned wounds
uloers, eto. All stores and druggists seli at 500 , per box, or post free from Zam
Buk Co, Toronto, for price. 66 boxe
for $\$ 2.50$. Send le: stamp for trial box.


SHORTHORMS. jub ofted oid ini

 ax
A. EDWARD MEYER





MAPLE GROVE SHOBTHORIIS


 , mid
Queanston Helghts Shorthorns


Mudson Ustier, Queanston. Ontario. Shorthorns and Clydesiales

 ЈOHN MILLER, ERoutham, Ont. Pleasant Valloy Shorthorns



 - CEORGI D. FLETCHE A ,


 simp hot i faitime Bpring Valley Shomthorns Bulle in Rerrieo aros. Raption

Staor for ano at ill time

## avLe mios.



 SHORTHORNS \& OXTORD DOWNS






## TO FARMERS

 AND DAIRYMENIt will pay every farmer or every farmer's wffe to sit right down and write for Sharples "Buslness Dairying." This valuable book contains ination that can be found in no other book,
and will help any dairyman to make his business more profitable. It tells to Care for Feed, What toed, How to Care for Feed, What Foods Proto Care for the Amiry Cow Milk, How to get best results, and the in the way to get best results, and the whole book your milk you should of course use

## THE SHARPLES

 TUBULAR CREAM SEPARATORIt is not only guaranteed to more than pay for itself annually, but the ease with which four can skim, the low can, the self-oiling litgs, the simple Tubular bowl with only one little part inside to wash, the moderate for the free "Busin you should know about. Send today bout the Shers Dairying and full information you keep. Ask for booklet G. 193

Mrs. J. Renken, Trenton, Ia., says "We cleared neeo.00 in six
THE SHARPLES SEPARATOR CO WEST GHESTER, PA.

Chloage, ill.

## BRAMPTON JERSEYS

Canada's Premier Herd
Strengthened regularly by importstic ns from United at and and ho maland of Jerao
We have animals of all agos and both seres for
sale, and the largest herd in Canada to choose from.
Write for prices and partioulars
Long-distance 'phone at farm
B. H. BULL \& SON, Brampton, Ont.

HOLSTEINS Fon






h. E. GEORGE, Crampton, Ont




Pine Ridge Jemeys $\begin{gathered}\text { Por fint } \\ \text { vory } \\ \text { chen }\end{gathered}$ somo oboioe yoang bulle bred in the prpallo ol
 High Grove Jerseys- Choice youns bull for servioe A prizewinnor at toronto laet tall ROBT. TUFTS \& BON, Tweed, Ont. When Writing Ploeso Iliontion Ithis Paper

ANNANDALE
FINE STOCK FARM
tillsonburg, ont.
Premier sire, Prinece Posch Calamity,
whose in oficial test 86 rbs. mam average
and 26 bibs hutter 1 day and 26 lbs. butter in 7 day

GEO RICE, Tillsonburg, Ont.
RECORD OF MERI HOLSTEN



 MAPLE HILL HULSTEIN-FRIESIANS

 a. W. CLEMONs. st. George, ont Evergreen Farm Holstieins ir hoodod be bed



OULSTIONS AND ANSWTES Veterinary.

## HORSE PANTS

Feur-year-old horse pants in ho
weather. He is nearly all right until ho starts to travel, and then pants freel,
on slight exertion.
Ans.-This is a congenital weakness for
Which nothing can be done Which nothing can be done. It is prob-
able he may improve with age and regu

PRESSURE UPON BRATN.
Wro weeks ago my cow commenced to
ary her head to one side, and became lame, stifened up. She seems sore and Ans.-There is pressure upon the T. either from conjestion of the blood eosens or rion a growth or thickening
of the tissues. Give a purgative of 2

ENTERITIS.
$\underset{\text { Pig died. }}{\text { A Post-mortem revealed the }}$
watter, and they appeared to be grown
Ans,-This was inflammation of the
It is cousels.
Ittatal. Treatment consists in in usuly. the bes
fortable . Feeding food of good quality In fact, taking general good care

## blind staggers.

Mare. eighteen years cld, has had a
ew attacks of onlind stangers When being led out of the stable in the
morning, she goes sideways and backimmediately, and is all right. ${ }_{\text {ap }}^{\text {G. T. }}$ T. ns. -This is apparently what is co
monly known as mony known as ". stomach staggers
bind stagers," due to stagers,", due to a congestion of
the blood vessels of the brain. whic supposed tossecur of the orain, which is
 O 8 quarts of blood from the jugular vein, and give a brisk purgative of
drams aloes and 2 drams ginger. Fee
$\qquad$
$\qquad$
$\qquad$
acute spinitis, etc. 1. Four-year-old mare was found down

d unable to rise on Sunday morning | her hind limhs were cold. |
| :--- |
| She was |

$\qquad$ 2. Would it he wise to shear sheep Ans.-1. The symptoms indicate acute


inappetence


MAPLE GLEN HOLSILIN HERO
 Woor othat her son by sir Alta Posoon Beoblt


Ridgedale Farm Holsteins ${ }^{-}$Present onerer


 HILTON sTock FARM-Holetome Ootworide nel Tamworthe-rpeí
 Glonveod Stock Farm-Ho Iolstoins all sold out Five Yo Pkomit and


IHE MAPLES" HOLSTEIN HERD


Wallburn Rlvers, Folden's, Omt
LYNDALE HERED
 Wayn Pall Conoridat four of whooby Bare

 Imperial Holsteins - An Adranaod Reidar

 "GLENARCHY" HOLSTHEINS


 Holstelins and Yorkshires
 Greenwood Holsteins and Yorkshires
 . Jomen Yortahires of dither sox. Grove Hill Holstein Herd
 Springhill Ayrshires.


 Robt. Hunter \& Sons, Maxville, Ont


 SPRINGBROOK AYRSHIRES
 STEPHEN, BOX 163 , Huntinedion, Que: Ingleside Ayrshires mon more prizes in 1906


APRIL 18, 1907
QUESTIONS AND ANSWERS. Miscellaneous
son dying intestate.
My son, aged 45, unmarried, and living
with me, was drowned in February. He
had worked on my farm all his life. H Was to have $\$ 120$ a year and board
after maturity. He had also an interes in certain breeding stock on the farm
We advertised and did business in the

 due him (about 87,000 as ast payyount
on the farm, the balance to be paid ovent to me. Deceased son never made a will,
and never expressed a desire as to what of his death. Besides deceased son, my self and wife (mother of deceased son)
have two sons and three date have two sons and three daughters, all
of mature age, and all married but the voungest daughter.

1. Can I lay claim to the property money that was coming to my dead son? 2. If so, can I sell the property and
claim the proceeds of the property as well as the money?
2. I intend to do this, and to add the proceeds to my own means, and then to parts-one each for my wife and the five
children-specifyin or her sharo after my death. Con paid his
or mill egally do this ?
3. If not, can a malsanater son's property and money with my own,
and give each heir a percentage whole now, and will the remainder to Ans. -1 . No, only, a share thereof.
2, 3 and 4 . No. Your wife dren are legally entitled to participate in
your deceased son's estate equally with you, and, unless you can arrange an
agreement with them to dispose of matter otherwise, the estate must be ad-
ministered and wound up in the regula way. ROOTS VS. ENSILAGE. 1. Which do you think is the most
beneficial to stock, roots or ensilage? 3. Do you think roots are better than
ensilage for feeding stock? If so what kind of roots would you recommend?
4. If you had a silo, and were raising corn, or ensilage, and did not like it, If not, why ?
5. Is there not more iron and strength Have taken your valuable paper for
about fifteen years, and would not part with it for any price. I enjoy reading
the questions and answers answered through your valuable paper, answered
the diffierent watering systems. W.F. S. Waterloo Co., Ont.
Ans. -1 and 2 . If unable to provid both roots and silage, we would rather
prefer to have the roots, from the stand-
point of the enima point of the animals' welfare alone, leav-
ing economy out of consideration. Rut
corn silage is a very much more profitcourse, in suitathe corn districts. The
best plan is to depend on corn silage for
the tulk of the ration makes besides. As to kinds of roots, it
great difierence, except that
mangels or sugar beets should be pre ferred to turnips for dairy cous, expeept
in districts, like most parts of the Mari-
time Provinces, where time Provinces, where turnips yield much
better than the beets.
3.. If we had a silo and did not like 1t. We would set to work to find oout
why. There is always a good reason
somewhere, it it can be got at. Among
tho

## Dr. McLaughlin's PLAIN TALK TO WEAK MEN

Now that it is generally conced ed that "Electricity is the Basis of
Life," you should give some credit to the theory of my teachings.
guesave spent twenty years to perfect my appliance; there is no
guesswork about curing when used as I advise.
The current slonled by my Belt
enters the body in a glowing stream of vitalizing heat, so gentle that the nerves and vital organs babe drinks milk. This force is added to the natural power gen erated by the stomach; it satu rates every vital part, and soon transforms the debilitated body into a natural storage battery and closes the doors forever to disease and debility.
I am an enthuslast, you saiy.
Why should I not be?
I have the gratitude of thousands of people
who have been cured by who have been cured by my Elec-
tric Belt after the failure of the best physiclans. I am enthusi-
astic, because I know that I reastic, because I know that I re-
lieve suffering humanity with the
liuree surest cure for the least expendi-
ture of money that is known to-

Every man or woman who comes into my office gets a practical illustration of my method of treat-
ment, and goes away convinced that the claims that I have made for it are true. After seeing orighal letters from the cured (letters which I am permitted to exhibit), thel d doubts are. Aispelled, and they know
that my Electric Belt makes strong men out of weak men, gives new life and ambition to men who merly were weakings. letters from men a They read grateful letters from men and women who were cured by my Belt df rheumatism, backache,
lumbago, sciatica, stomach, liver, bowel, kidney and bladder troubles. They also see evidence of wonderful cures of locomotor ataxia and some forms of paralysis. Every day brings fresh evidence of the wonderful
cures.

My Cures Prove the Truth of My Arguments
Dear Sir, I have worn your Belt for several months, and it has cured me of rheumatism and plles. I would not talke siop
for the benefits i have recelved from tit so far and be without It. I can recommend it to any one suffering from any troubles for
which it is recommended.J. H. MIKEL, Mapleview, Ont. I will gay that I am perfeetly satisfled with your treatment. I used your Belt as directed, and found it yust as you repres-
ented It. and I can thank you alone for the cure it has given me. I have it yet in fust as good condition as ever. If I knowany

 Bruce Mines, ont DR. MCLAUCHLIN'S ORRER
Any man who is suffering from any wrakness, let him come to me and I whll cure him, and it he
will give me evidence of his honesty and good faith by offering me reas onable securty, he may uee the Belt PAY WHEN CURED

## FREE BOOK

I have a book which every man should read. It
contains hundreds of letters from men all over Canad s, telling of how they have been cured when hope was lost and all other treatments failed to give the desired
relief. If you oanriot call, write to me for a copy of relief. If you oanrot call, write to me for a copy of
this valuable book, setting forth the key to strength and this valuable book, setting forth the key to strength and
manhood. Call or write to-day.



## Burdock Blood Bitters

molde a position urivalled by any othen blood medioine as a cure for Drapipsia, siriougires, COTETIPATION, HEADACH SALT RHEUM, SCROTUL GEARTEURN, SOUR STOMACH, RZZINESS, BROPSY,
RHEUMATSM, PIPLES, RUYGWOR1, or any dimen rofieng from a dinordored atate of th Etemach, Liver, Bowele or Bleel. Whe poe require a good blood mollicise tht munoce nlood nixc:e

## Y MONKLAND <br> Yorkshimes

We toop 35 brood sowes, sad have oonstunur.


JAS. WILSON \& SONs FERQUS, ONT


Large White Yorkshiras.

 H. d. DAVIs, Woodetook, Ont Importar and Breodor of Yorknhires

## CLENBURN <br> HERD OF YORKSHIRES




David Berr, Jr., Boz 3, Remfrement Maple Grove Yorkshiret


 sexes All age
and homebre
none better.
H. 8 McDiARMID, Fingal P. O.. shedden stration

## Fainview Berkshiree



 OHN S. COWAN, Donegal P. O,
SUIHYMOUHT BERKSHRES


 John Meleot Fairview Berkshires Brad from Imbortrod and damm uad brad den riteo



[^0]:    THE WILKIMSON PLOUQH 00 en LImited, Toronte, Camada vard Maminomin,"-Please nend mo(freo) the book, "Preotioal Mxperloseo will Barn mamo..
    

    Have you a Manare Bpreadery Answor.

