## PAGES

MISSING

0OOD, big "mealy" potatoes can not be produced without a liberal amount of Potash in the fertilizer-not less than ten per cent. It must be in the form of Sulphate of Potash of highest quality.
"Plant Food" and "Truck Farming" are two practical books which tell of the successtul growing of potatoes and the other garden truck-sent free to those who write us for them

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## " The Clothes Oft Proclaim the Man"

> The oolors of the paint with which the house is "clothed " will certainly proclaim the judgment and taste of the owner or painten of the domicile. If one or two "COATS"" of the CANADAA PAINT COM- COM PANY' PAINT are applied, the house will be in a class hy itself, viz.: the first clas. itself, viz.: the first olass.

ask your dealer to show you a card of the
Canada Paint Company's Smart, Clear, Durable Shades.

"Success"Manure Spreader


DOES THE WORK OF FIVE MEN AND TWO TEAMS - AND BETTER

If you spread your manure with a "success" you know that

1. It will be sproad unitormly.
2. That it will be thorounhly pulverized.
3. That the land will plow easily, because the plow will not be choked ut
sithlumpa
4. That no manure will be wasted
5. That it will be epread exactly in the proportion that sou want.
6. That your shorses will not the abused and worn out ty dra
aumbersome macoine.
7. That you are using the greatest manure spreader in the world.

Write for our free illostrated catalogue "How to Increase Your Crows.
It contaia ins valuable intormation for verery farmer." Manutecoured by
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THE EARMER'S ADVOCATE
and Home Magazine.
the leading agricultural journal in the DOMINIO
the william weld Company (Livite) john weld, Maxager


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\begin{aligned}
& \text { LovDon (ENGLAND) OFFICK: } \\
& \text { w. w. CHAPMAN, Agent, Mowbray House, Norfolk Stree } \\
& \text { London, W. C., England. }
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illustrated with orignal engravings, and furnishes the illustrated, with original engravings, and farnies, hand the moo
practical , retiable and profitabel information for farmers, dair men, gardeners, stockmen and home-makers, of any pubbicatio

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& \text { Adress-THE FARMER'S ADVOCATE, of of } \\
& \text { THE WILLIAM WELD COMPANY }
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 like the Railway Commission. A resolution a
ing the Coovernment to place it under the purvi
of that body was passed at the reeent Domini Conference month, and a deputation subsequentl upon the Premier. Sir Wilfred
ired intimated his sympathy and could
included
tablishing
Tablishin

promise it before long, althongh he could not
interview
Whethe
will be for the
The companies
The companies point out that rath th downmin omplain of trouble
,ther hand, t
,usiness mah
$t$ is ham must mo much extra lacturso to th Two years have elapsed since the Canadian shower than a longer distance umless the
Railway Commission. established by Parliament. missioners are satistioed that, owing to com at the instance of the Dominion Government, en- tion, it is expedient to do so. Under tered on its duties. There was much to te dome syatem ireight latifls are governed by a classith in the early stage of the existence of the Board tion which the Board must approve. The ob in the matter of establishing the new order of is 10 hat this classification uniform. When
things, but the Commissioners hate proved men directe! by the Board railways have to place aul of energy, and it is sursioners have proved men erecter goods in any stated class, and and and have band be in such form and rive unch dotaids and paratively short time that has chapsed since the board repuires. Railway Committee of the Pricy Council gave The Railway Commissioners have also the pow place to the Board appointed under the Railway (or to regulate and supmervise the highways a

If any one had misgivings as to the improve comeral construction of railways and the ed


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high classification, or tariffs, or car shortage,
by means of other excuses, made it very dificul by means of other excuses, made it very difficult
for proprietors of wood-lots to profitably engage in the business. The Board heard the complaint and ordered that this discrimination must cease rates, cannot arrange them for an exclusive regard for their own interests, but must have reslect to the interests of those who may have occasion to employ their services, and must subor-
dinate their own interests to dinate their own interests to the rules of relative
equality and justice. In like manner, the Boar equality and justice. In like manner, the Board
has done justice, as between the railways and the has done justice, as between the railways and the
iruit-shippers, and in cases where manufacturers had unadjusted grievances. Then, as a result of had unadjusted grievances. Then, as a result of
the big harvest last year, and the attendant the big harvest last year, and the attendant
shortage of cars at many points, it was necrssary for the Commissioners to deal with th over them in the assignment of cars mission directed that a fair proportion of cars should be placed at the disposal of local ship,
pers ; and as this could only be regarded as pers; and as this could only be regarded as
temporary relief for a ticklish situation, indicated that the Commissioners would go into the subiect
fully before the crop movement of the presinnt fully before the crop movement of the pressnt
year, so as to provide that justice shall tee dome all parties.
The Commission has not only settled many public, but it has frequently adjudicated disputes between rival companjes, having an eye, of course to fair play for the public at the same time. In it the Commissioners held that the object the Railway Act (Sections 177, 253, and 271) is o ensure that all reasonable and proper facilities for handling, forwarding and interchange of his purpose, the 13oard may, without the san , ion and against the will of a railway compans, permit a junction to be made with its line by
another railway, where, in the public interest, another railway, where, in the public interest,
and in the interest of traffic in the district
through which the railway passes through which the railway passes, such is
quired. It was further held that the parties a lease of a railway cannot by stipulation bethis discretion, if, in the opinion of the Board,
such junction is reasonatlly necessary THE COMMISSIONERS. The Commission is presided over by Hon. A Manitoba, and for many years Chief Justice of that Province. At the time of his appointment as chairman, Hon. Mr. Killam was a judge of
the Supreme Court of Canada, to which he was the supreme Court of Canada, to which he was
alled as eminently fitted to occupy a seat in the highest judicial body of the land. The portrait fiven herewith shows the Judge in his Supreme vide experience and shrewd common sense emiently qualified him for the important duties of Is office, and the Dominion Government was for-
tunate in being able to prevail upon him to forake the Manitoba Bench for the onerous post wo holds. The other two Commissioners Mr. James Mills and Hon. M. G. Bernier.
Mills was for many years President of the ( Mills was for many years President of the in-
tario Agricultural College, at Guelph, and the fowledge he acquired in that famous institution ommission in dealing with the many questions - agricultural interests. Hon. Mr. Bernier is a farin". as well as a member of the legal profession,
and when living at s.t. Hyacinthe, Que, where hi. was bern and raised, he was for years selected Fiends and neighbors as President of the and County Agricultural Association. In e. successive general elections he was dicte. Homsentative for st. Hyacinthe to the Dominons, and, on the retirement of Henri Joly to take the Lieutenant-Governor binet as Minister of Imland Revenue, which of he held till appointed a member of the RailCommission. The chief Commissioner re-
remuneration of $\$ 10,000$ a year, and his remuneration of $\$ 10,000$ a year, and his
associates $\$ 8,000$ a year each. The salari-s made purposely substantial, so that the best vailable could be secured for the Board. and
a imancial interest in any railway or its equipment. To assist them, the Commissioners have traftic expert. Ay the agency of a qualified intraftce expert. By the agency of a qualified in-
spector, also, all railway accidents, and the causes of accidents, are now investigated. This much-needed reform has been carried out on the fines of the British law, and is calculated to be oi much benefit. The Commission, even with nto force disadvantages arising from the putting ready proved of the greatest value to the public. At the same time, the Commissioners have done sion ane to the railway interests. The Commis-


Dr. James Mills, LL. D.
Member of Canada's Railway Commission


Hon. M. E. Bernier.

States legislators by the press of the neighboring Republic as a model of what their Federal Railway Commission ought to be when, as is strongly
urged by President Roosevelt. Congress summon cnough courage to cmancipate itself from sumons enough courage to emancipate itself from special
"interest," and gives to the people a National Rallway Commission that can be relied on to dear justly, as does the Canadian Board of Railway

The Country was Knifed!
hid you get one? If not, you camnot afford to
wait much longer, as they are going rapidly. It
only takes one new subscriber to secure a knife.
surely you can do that much for yourself. Let's

Government Regulation of Telephones. The construction of independent rural telephone lines has made phenomenal strides in Canada the strung last year will probably be more than duplicated in 1906. Economically constructed and managed, they earn their promoters fair dividends, revolutionize rural life, and expedite rural ways of doing business. But trouble begins when long-distance connections are wanted, as the Bell monopoly in railway station is encountered Foreseeing a rising storm, the Dominion Government undertakes, by an amendment to the Rail Way Acl of 1903, Wirduced by Hill Brat ership admit the instruments of any telephone company to their stations, and cannot set up any exclusive contract with some one company as an obstruction. This is to be retroactive. In the next place, complete control of telephone rates and service is to be placed under the Railway Commis sion. And, thirdly, interchange of traffic between all companies is to be made compulsory. The Bell Company must give connection with independen companies. As far as possible, this must be died when communication, but this is to be modi are so inferior as to cause trouble. The Government have done well to realize that the people of this country will not tolerate the fastening of a restrictive monopoly upon its growing business.

## HORSES.

If the colt's hoofs are not growing wide enough blister to stimulate growth. The real difference in value between a good and a poor stallion is not in the first cost, but don t let a high price convince you that the horse
is really worth the figure.

Have the Exhibitions Perverted Our Type?

## Fuitor " The Far The question cate" of February 15th, in relation to the im

 provement in horse-breeding in Canada, is raised none too soon. There has been, and to a certainextent still is, such a great desire for what might be termed extremes in all lines of breeding, that the useful or dual-purpose horse, like the dual-
purpose cow, is by the large breeders-and they purpose cow, is by the large breeders-and they
are those who are controlling the thought, to a
very great. extent of the small formers are those who are controlling the thought, to a
very great extent, of the small farmers-considered an impossibility or a freak. The exhibitions,
largely controlled and supported by the larger largely controlled and supported by the larger
breeders, have, to a great extent, aided in supporting the special-purpose idea, and the special purpose has been either extreme size, speed or action, without considering it possible that a happy medium might exist combining some of hose three qualities, substance, in everything You ask, should a farmer's principal aim be to produce a horse for his own use, or a horse for the market ? In answer, I would say, to a great and locality of the farmer. If he is only raising one colt each year, he had better raise for the market, and raise the same as his neighbors are, if of a class in deniand. If raising several colts
each year, he had better have some for his own
The breed of horses that will give the best results, mated with the general run of mares, difare sired probably by Standard-bred stallions. In Slych instances, the use of an active, clean-boned than any other. If, on the other hand the eral run of mares is Clydesdale grade, I have known istances and localities where the use of a good highest class of useful and produced the very And, in fact, if you enquire into the breeding s. ome of those handsome and highly serviceable worses that do the express delivery in cities, you a grade Clydesdale, and the sire either dam was ard-bred or a Thoroughbred. Why a useful breed could not be obtained by a careful selection of horses, cross-bred as above, I have been unable
to discover. In my own observation, I think, among light
breeds, that a well-developed breeds, that a well-developed Standard-bred will probably, in most instances, be the best. While of the Thoroughbred, yet, in one locality tages which I am familiar, the offspring of the with oughbred from two different horses were almost

THE T $\lambda$ RMER'S ADVOCATE
ing ringbone or fetterbone, the instance developdeveloping spavin. Probably ninety per cent. o the colts from each of these stallions were un-
sound at seven years old ; the remaining ten per

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& \text { were exceptionally good. } \\
& \text { vould like }
\end{aligned}
$$ upon the Thoroughbred cross, as I am some others making a trial this season of a Thoroughbre bility of spoiling the horse stock of a the responsithe Thoroughbred is inclined to breed unsoundConcerning heavy horses, we have had experience with Percheron and Clydesdale, and, while

the Percheron stallion that I owned was the kindest individual horse that I owned was the seem to have the snap or the constitution do not
Clydesdale The colts of a good, clean-limbed Clydesdale the best and, win, in my humble opinion, be the best and most useful and salable horse farmer can raise. There will always be a d
mand for such horses in the development of ne farms and the increased delivery demand in cities.

## Prospects for Shire Horses

As far as I can judge from all the varied in Sir P. Albert Muntz, in the London Live-stock
Journal, the Shire-horse trade has never possese r.ore vitality or had better prospects the future than it has at the present moment
I base my opinion, firstly I base my opinion, firstly, upon the public sales prices have been higher thace, where the average
previous years. These are have been in previous years. These are, of course, practically
confined to animals for breeding purposes. Secondly, I turn my attention to working animals
and I find that good sound working animals has
never been scar never been scarcer or commanking animals have than they do at present. Thirdly, the iorcign
demand was brisker last year than it inas nonn
for many for many years past, and and at the present momen
is decidedly active and is decidedly active, and looks as if several grea
countries, in which the dematen countries, in which the demand might be fiunost
unlimited, have woke up to the undouhted sure riority of the whire over to the undoubted supe and might create a boom that would tax the re As I I have so often stated breeders to the uttermost the real foundation stated, by speech and writing ng must be durably built is the supply wif good
ound, weighty working animals that will pare favorably with any other hreed, either a
home or abroad. All that Shire home or abroad. All that Shire horse-breeder
have to do is to keep that object sicadily in
view, and by that mean the view, and by that means, there is no reation why
they should not, with intelligence ance, secure a practical monopoly for the shir I attach little or no importance of the power as a substitute for Shires, and, in to motor
tion of my view upon tha large of my view upon this subject, I find that power on trial, are discarding it in paver motor
poor the

## Clipping Promotes Comfort and Thrift.

 obliged to reconcile their of people have been though it secms to their judgment. Irrational this natural protection at a season when human beings are most susceptible to weather vicissi unanimously against discontinuance of war lothing, the fact stands out that clipped hors are less subject to colds and such affections. to suffer less discomiort than their unclipped a hard day's work, and will rest comforing after enefreshed for the work the following day an pneumonia and all sorts of colds, rheumaties etc. More especially is this so in the earl spring, , when the hair is long and he issoft," If worked hard he will perspire freels and the food that should go to by his long hai tantly taken from the heat that is being con of cold. Wet hair. If clipped, the perspiration wil wut in the stable, he rests comfortably, and his pany tested the talue of clipping in the car Commany tested the talue of clipping in the following
manner Ther 500 horses, and 250 of
these wore clippen warly in the were not chippelt A A careful record was and 2
whept
the rult dipponl lumses 15.5 wern afficted with coughs and

## Blind Staggers. <br> The Florida Experiment Station is responsible tate Veterinarian

Forage poisoning, otherwise known under the or blind staggers, is meningitis, grass staggers, licates, caused by poisonous plants, or, more menting grains and hay, or by grasses which have matted together near the ground and become mouldy Sour or mouldy silage has also prowater in which vegetation is decomposing. Mouldy or worm-eaten corn has also come in for its share of blame as a cause. It affects horses and mules The symptoms are as variahe and and, according to their nature. we recognize threo types of disease. In the first type-the most rapidly fatal-there occurs a weak. staggering yait, partial or complete paralysis of the throat, as a rule. The animal soon goes down, becomes delirious, and goes through the m
walking, trotting or runing whit Thiking, trotting or running while on its side. This stage is soon succeeded by deep coma, and onset of the disease. The second type is firs manifested by slowness in chewing, partial inabil ity to swallow, and weakness in the tail. There are about normal, and a slight constipation exists. In two or three days the animal r
 plete. the gait uncertain, coma or sleepiness ap


A Good Type of the English Shire Horse
is labored. Delirium now develops, the animal
goes down, the spine becomes rigid, and thor cramping of the neck becomes rigid, and there is a In the third, or mild, type, the control ability to swallow is not lostly affected, and the pain, or unconscious movements, and the animal reoovering. st the most prominent symptom, while in others most attention. In all cases, if sleepiness or Conda remain absent for a weok, the animal will
inkely recover, but some form of paralysis may
shun find ures from the normal condition in the find depar simal cord. In mild cases there are no notable changes in the nervous system. In others we ord cavities, and distention of the blood vessels. vill appear softened, and even abscesses may bo The object of this article is omly to call attention to the causes of this disease, so that owners
will be more careul to provide their animals with
pure tood Note-No treatment is given, presumably for

## Likes It Better Every Wetk

## LIVE STOCK.

Our Scottish Letter.

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& \text { Connected with the breeding of cattle, we } \\
& \text { having rather lively times over the proposal } \\
& \text { amend the Cattle liseases Act of 1896, in fay }
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& \text { amen the Cattle Diseases Act of } 1896 \text {, in fave } \\
& \text { of Canada. Mr. Cairns, one of the members fo } \\
& \text { Newcastle-on-Tyne, has put down a bill for secor }
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& \text { Newcastle-on-Tyne, has put down a bill for second } \\
& \text { reading on Friday, April 6th, the contents of } \\
& \text { which are calculated }
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& \text { reading on Friday, April 6th, the contents of } \\
& \text { which are calculated to embarrass the Govern- } \\
& \text { ment, some of the members }
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\begin{aligned}
& \text { Which are calculated to embarrass the Govern- } \\
& \text { ment, some of the members of which rather tritled } \\
& \text { with the subject when in opposition. Meantime }
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\begin{aligned}
& \text { with the subject when in opposition. Meantime, } \\
& \text { Lord Carrington has been inundated with peti- }
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& \text { decide the question solely from the standpoint of } \\
& \text { what may be necessary for the protection of }
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& \text { what may be necessary for the protection of } \\
& \text { herds and flocks in this country from disease. The } \\
& \text { denutation in sin }
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& \text { herds and flocks in this country from disease. The } \\
& \text { deputation in favor of the maintenance of the } \\
& \text { status guo whs one }
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& \text { status quo was one of the largest ever seen with } \\
& \text { in the precincts of Westminster, and it was } \\
& \text { wholly arriculturo }
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& \text { in the precincts of Westminter, and it was } \\
& \text { wholly agricultural Meantime, representatite } \\
& \text { meetings in favor of maintaining the status quou }
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& \text { other centers in Scoland. The English farmers. } \\
& \text { with the exception of a section in Norfolk. }
\end{aligned}
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& \text { With the exception of a section in Norfolk, are } \\
& \text { unanimous in their opposition to Mr. Cairns bill }
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& \text { unanimous in their opposition to Mr. Cairns bill } \\
& \text { It receives some support in Scotland from farmers } \\
& \text { in Fife, Foriar, Aberdeen, Kincardine, Perth and }
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& \text { in Fite Foriar, Aberdeen, Kincardine, Perth and } \\
& \text { East Lothian. Otherwise, Scotland is as solid } \\
& \text { against the ber as Enctind }
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& \text { Wast Lothian Otherwise, Scotland is as solid } \\
& \text { against the bill as England. Mr. Duthie, Mr. } \\
& \text { Gordon of Newton, and the other leaders in the } \\
& \text { Shorthorn world, are active in opposition to any }
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& \text { Weration of the existing law. The attitude is } \\
& \text { We know where we are: we do not know where } \\
& \text { We might he if the law were changed.". } \\
& \text { The imperssion here is that the Board of Agri- } \\
& \text { Tulture is firmin its resolution to maintain the }
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& \text { The impression here is that the Board of Agri- } \\
& \text { ultare is firm in its resolution to maintain the } \\
& \text { tatus quo, but that Lord Carrington has some } \\
& \text { titticulty in finding a way out for a few of his } \\
& \text { iolleagues who commited themselves }
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& \text { lifticulty in finding a way out for a few of his } \\
& \text { olleagues who commited thernselves somewhat } \\
& \text { onanother course when seeking the suffrages of } \\
& \text { he wlectors. }
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proving itself worn active in the fathering of
sgistatice proposals of a radical nature, as ai-
cting land. A Land Tenure Bill has pas
Mosals for the protectiong of the interest of the


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the the than Then antare of the holding to
Cabort: It in alocs rempensed the reward of his

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& \text { broad hint to all and sundry that the Government } \\
& \text { is to be guided by its veterinary experts, and will } \\
& \text { decide the question solely from the standnoint }
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& \text { Weantime, representative agricultural. } \\
& \text { meetings in favor of maintaining the status qual, } \\
& \text { have been held in Perth. Aberdeen, Stirling and }
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& \text { Americans the Birniingham sale } \\
& \text { high; } 850 \mathrm{gs} \text {., or } \$ 4,462 \text {, was the highest } \\
& \text { but others were } 750 \mathrm{ks} .450 \text { ps } 400 \text { highest figure } \\
& \text { and } 200 \mathrm{gs} \text {. The Scots type was again the } 48 \mathrm{~s} \text {., } \\
& \begin{array}{l}
\text { and } \\
\text { orite, the highest-priced bull having been bred }
\end{array} \\
& \begin{array}{l}
\text { Mr. James Iurno. It is said that one Aberdcenshife } \\
\text { tenant-farmer has this year }
\end{array} \\
& \begin{array}{l}
\text { tenant-farmer has this year got as much for his } \\
\text { bull calves as would enable him to purch }
\end{array} \\
& \text { farm outright. Unfortunately, our purchase his } \\
& \text { not cnable a farmer to do anything of this kind } \\
& \text { but pernaps before long this may be altered, ant } \\
& \text { position to negotiate for purchase with the } \\
& \text { as the meantime very anxious to sell, but cannon } \\
& \begin{array}{l}
\text { Connected with the breeding of cattle, we are ( } \text { () } \\
\text { having rather lively times }
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days, ate, besidecs roughness, an average of 7 lbs.
ment a day, made an average gain of 80 ibs. each,
2.85 lbs., per day, and at a cost of 5.26 cents per pou
gain during pertod. These are good gains at a 1 m gaim cost, and there is encouragement in the stateme of them.
Most interest attaches probably to a discussion the feeding of market bullocks. It were better tha more intense interest be stimulated in the feeding
younger cattle. An animal can never be fed so chea as during the growing period. A growing calf will more per day than a fattening steer, and during the first year of his life will make a pound of gain at one-
third the cost of a pound increase during his third year. Moreover, the less time it takes to make a st
reach market weight the less will be the cost of reach market weight the less will be the cost of his so much every day simply to sustain life, and the costs days we have to feed a steer to make him reach his weight limit, the greater will be the saving in the co of his total maintenance. if we can feed a stee
1,400 lbs. at two years, as contrasted with taking three years to reach that weight, we hevencr the cost of his maintenance for a full year, an amoun unquestionably equal to about \$12 or \$15. arguing for intensive methods in agriculture, so armer cannot afford to feed a maintenance ration his calves and young cattle. He cannot afford to three years to fatten and finish a bullock when he nigh
do it in two. He cannot aford eap the profit of finishing a steer to let another reap the profit of finishing a steer that he himself ha
raised. There is a profit in the intelligent feeding rowing cattle : there is profit in the finishing of car ully-selected feeders ; there is double profit to him wh rising out inishes his own cattle. There are problem but space prohibits a discussion of them now. he hope that this article may be suggestive of touching the logic or suation of the cat ustry in Canada.

## THE FARM.

## A New Brunswick Agricultural Socier y' Experience in Purchose and Home-

 mixing of FertilizersEditor '. The Farmer's Advocate
more, then secretary of our started the idea of getting fertilizers in raw state and mixing at home, on the recommendation of a using them in that manner und, who had been something cheaper, and invariably to found them faction. Our Agricultural Society at that time got only a few tons, but the demand gradually increased, until we now handle over 100 tons each season. The farms are small here, and the members who use fertilizers vary in their purchases
from about 50 pounds for the cons for the largest purchaser. We found that the potash salts and nitrates and phosphates were uniformly of same quality, and gave best of satisthat a complaint came from any member. We obtain the nitrogen in the form of nitrate orm soda, and sulphate ammonia and potash in the and phosphoric acid in the form of bone black We have had acid-rock phosphate, but it did not five so good satisfaction as the dissolved bone black
In making up our composition, we knew the percentage of nitrogen, potash, phosphoric acid Sulphate of ammonia 25 pergen. equal to 19 to 20 per cent. nitrogen.
Muriate of potash, 60 per cent. pure potash. Sulphate of potask, 60 per cent. pure potash. soluble phosphoric acid
For potatoes, we would make a mixture fairl strong in potash, and also fairly strong in nitro gen. For strawberries and small fruits, we would
use a mixture quite strong in potash and rather weak in nitrogen, and containing a fair supply phosphoric acid. As an illustration :
No. 1, for Berries-
50 lbs. bone black, containing 15 to 18 por cent phoric acid in the mixed fertilizer.
12 lbs. nitrate soda, contan gen, making soda, containing 2 per cent. nitrogen. 0 lbs. muriate sulphate of potas. 18 per cent. p
handled.
$\qquad$
bers is a little over $\$ 30.00$ per ton, and varies little, according to the grade. We have wt times sold as low as $\$ 26$. Will say again that thero crop if properly cultivated with a satisfactory and they can be successfully used on almost any soil. Generally, I think, they do better in the heavier soils. For beets, mangels, sugar beets
turnips, cabbage, potatoes, peas, beans, berries, oats and other grain, I have not wis any barn manure for fifteen years, and always do irst-rate. else in our vicinity. Perhaps in another article 1 might explain method of using for different. crops. What barn manure I have I use on rhubarb and squash, and sometimes in setting st
0. W. WETMOR1.
King:

The Work of the Seed-selection Speciaf
portant experiment was tried in the Prairie Provinces
the results of which must surely bring great benetii
the results of which must surely bring great benetit to
the farmers of the West. For many years it has been
the farmers of the West. For many years it has been
known that smut was causing considerable loss among
the small-grain crops in that part of Canada, ant al-
treated some of the more advanced farmers every year
loss, many others did not. As the crop of 1905 came
front for shipment, Winnipeg, on its way to the lake
front for shipment, it was found that an alarwing
amount of the wheat was contaminated with smut, or
amount of the wheat was contaminated with smut, or
with the seeds of weeds. In 1903 the percentage of
dochace nd

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once be done to improve this state of affairs. The
Canadian I'acific Railway and the Dominion Depart ment of Agriculture consulted together, and invited oth.went aime of which was to remind farmers bial campaign. the aimu of which was to remind farmers before the siring
work began that more ccre was necessary than had
evidently been shown in wrenaring then evidently been shown in preparing their seed grain and
caring for the resulting crop. Mr. W. B. Lanigan, of caring for the resulting crop. Mr. W. B. Lanigan, of
the Canadian Pacific Railway, and Mr. G. H. Clark, of the Dominion Steed Branch of and Mr. G. H. Clark, of
culture, were the two leading spirits in this work. ArriCanadian 1'acific Railway provided the train, in which
the speakers lived entirely during the two months of the campaign, and hauled it over all their lines. The
Canadian Northern co-operated with the Canadian Pacitic, and all the chiep places along both of these
railways in the west were visited. The lecturers were for the most part officials of the
Dominion Department of Agriculture, and all were under Seed Division at Ottawar. Mr. Ankus. Mackay and Mr.
S. A. Beiford. S. A. Bedford, of Brandon, the wril-hnown and hichly
osteemed Superintendents of the Woitonn Farms, wave most valuable assistance, as also did Mr
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are, that reasons for getting fertilizers in this way quantities, and we think by so doing we get the
best that can be had, and each member knows just what he is getting. We weigh the kne ingredi-
ents, and each member mixes for himself at home We also find that they give the best of satisfac-
tion all the time, and will give a third to a half
more yield than ready-mixed fertilizers supposed O be about same grade, and in some cases will
nearly double. Price at present is not very much
less than ready-mixe so ss than ready-mixed fertilizer, as nitrates are
sell high, but at times we have heen able to han goods with the same analysis ready-mixed.
Personally, nost every crop without barn mamure, and where it trouble raising excellent crops, and where Iroper
rotation is followed the land will immon, ash is better to use for potatoes and hat. of poitgive a little off flaver, but we ha
any marked difference, although


THE FARMER'S ADVOCATE

## A Four-year Rotation.

I take the liberty of sending you a few notes, as quested in an editorial of a recent issue of your paper
on the subject assigned. I shall endeavor to give in this article something of an outline of the rotation fol the principal output, and where clean and fertile fields are not uncommon. We do not all follow the same rotation, for no rotation could be planned that would be applicable to every iarm of a township, or even com-
munity, let alone a whole county. There is no hard-and-fast rule of rotation, and I think it was realizing this that "The Farmer's Advocate" encouraged this discussion, and realizing this we shall profit therelly.
I said there were reasons why we should follow tion. Allow me to submit a few, which I think will make it evident.
First, while all farm crops are made up of the same
chemical elements, the proportion in which the different crops use these is different. The range of roots and the power of assimilating plant food differs in different
crops. For instance, wheat derives most of food from near the surface, while the clovers get mach of theirs deeper down. Ry a rotation we are able to
fraquently grow a leguminous crop, especially clo The growing of cereals or roots continually, tends to
exhaust humus and nitrogen, and the benefit of tior as a means of keoping up humus and nitrogen not be overestimated. Again, rotation is a means
destroying weeds and fungi, and this is of grant portance. In growing any crop continually, fungus d eases and certain weeds often become very troubleson Rotation will give you from a field the largest
amount of nutrients, and a rotation lessens the the farmer. The conditions of any one year afe t all of his crops: and, further, a rotation enabl a farmer to distribute his work much better over t
year. I think we have ere this grasped the import and value of rotation, and I think in planning ono should plan with these objects in view : First, bringin in clover as frequently as possible; second, the alternation of grain with grass crops; and, third, the alterna
tion of cultivated or hoed crops with unhoed crop with a view to fining the soil and to destroying weeds Conditions sometimes render it difficult or impossil,
for one to follow such a rotation as one would like, for one to follow such a rotation as one would like, or
to follow it as regularly as one would like
Such our experience in managing our farm, as we have
great deal of permanent pasture. Now, by rotation. do not mean simply a change, but also a change in fegular order, and there is no mistake in this,
not think it advisable to stick too closely not think ad avisable to stick too closely to a rot
tion. Do not be afraid to violate once in awhile destroy weeds in parts infested, or for other reason if you would have the greatest measure of success.
The rotation I am going to outline, and the one w follow on our farm as near as practicable, is a year rotation, and I consider this long enough.
tart with a clover sod or pasture, we plow this shallow, and turn sod well under as early as we ca
August or September, and then practice a thorough ivation on this throughout the fall months. tivation on this throughout the fall months. Thi-
hastens the rotting of the sod, and is very effectual in
killing many troublesome weeds. We endeavor througlikilling many troublesome weeds. We endeavor througl|-
out our methods of cultivation to save all humus alld surface soil, and keep this near the surface and a way
from the cold, hungry sulsoil. This land is intended for hoed crops the following seavon, and upon it we spread all manure arailathe in the fall and throughout The stabling season. for we always try to have an aren
large enough to take all the manure made. In the
spring this land is plowed very shallow with a wheel spring this land is plowed very shallow with a whee
plow, the object sought heing to thoroughly incorporate tivation necessary in steding easier and more offectual.
The growing crops are carcfully cultivatod throughout the summer, the soil stirred deep at first and shallower
as the cron progresses. Here is where we destroy the as the crop progresses. Here is where we destroy the
weeds. After harvesting this ground is plowed again,
as we find it essential in order to propare a seed-i. as we find it essential in order to prepare a seed-i)ed
of good tilth and depth in our soil, and we have failed as vet to notice any detrimental effects in loiss of humus seed to grain cropls, oats and harley, and a heary serd-
ing of timothy, red clover and alsike clover. ion thiis crop the only way to destroy weeds after seeding is
hand polling. which is sometimes resorted to. in (asis
of somwthistle or mustard. The noxt voar wo cut grass crop for hay, and a fine cut it generally is, at aging often three tons per acre, and when property cur
makes very desirable fodder; and then the clover atlo math is a crop of no little importance in this year
rotation. as it affords a great deal of excellent
turave tharsuchout the fall monthe for the dairy couns turape throughout the fall months for the dairy con
The fourth year we pasture again, or if the pasture not needled we take n second cut of hay and plow
early fall, and cultivate as I have previously explain early fall, and cultivate as 1 have previously explainin
By this system of rotation our land receives
liberal drussing of manure every fourth vear : we liberal drissing of manure ecery fourth year: we a
afforded an opportunity to combat with weeds fourth year in a hoed crop, besides the cultivation
the fall months, hesides the smothering from the crof of clover, as our land is seeded to clover every fourth year. and fertility added from this source. We fin
this system to ec.. saticfaction oin a dairy farm: w have an abundance if comphay. our pastures are a
ways good. and farmard matmere is plentiful. As ways good. and
result, weeds are
down that will be applicable to all farms, and furt Tet me repeat, one must not be afraid to strike oul from the general order of the rotation once in awhile
if best results would be had.
Dundas Co., Ont.

## The Split-log Drag.

## The cost is variously estimated at from one to

 terest has been aroused in the United States in a simple roadmaking implement called the splitog drag. It is intended to be used when the oads are muddy, the idea being to puddle them face. The dreap face. The object is thus entirely different from ot used until the surface is dry enough thich is
three dollars
How do around sidewise? keep the drag from doduing dodges around the earth
Will the dracerloaded.
Wou are moving, it is Yes and no. A dragged road will stanting? heary hauling than an undragged road, but not so much as a macadamized or well-kept gravel A sand road is a vary difierent propositif
from the black soil, clay or gumbo. An entirit from the black soil, clay or gumbo. An An entir
different method must be adopted. Three things may be done to a sand road to make it better
t rast, keep it wet; second, haul clay on to Third, sprinkle it with crude oil, as they do in California and in some parts of Southern Kansas
and Texas. The drag will be beneficial in keepIng the sand road perfectly flat. So that it will
athorb moisture and retain it a long time. To this catechism I would add the following
" Don'ts" : Don't drive too fast. Ion't walk:


## Spring Cultivation

## he soil preparatory to the spring seeding andion of

 ittle. Aliscussion of this ferature seeding, and a fions is seasonable at this period. As a rule, the land intended to be sown with spring crops hasbeen plowed in the fall, in order to give it the
benefit of the action of winter foost thenefit of the action of winter frosts, rendering
the soil more friable and easily reduced to a fine tilth in the preparation of the seed-bed. to a fine
There is generally There is generally little difticulty in securing
this condition of the land at the beginning of the seeding operations, the land being then sufficientmolst to break up into a fine tilth without much labor; but later in the season. if the weathture, especially in the case of clay lands lacking In humus, rapidly escapes by cvaporation, leaving labor in the cultivation, while froming extra time and sufficient moisture, germination of the seed is of ayed, and the crop is liable to be crippled in itsinfancy and the yield much reduced. By anticing it, and the principal difficult way of preventthe general scarcity of farm help, and the comhendable ambition to push the secting to complehave in mind is the horre. The method we have in mind is the harrowing oif light surface
cultivation of the fields before the laull becomes too dry, thus securing a loose-earth mulch to prevent
the evaporation of the evaporation of moisture and kuep the soil in
an casily-cultivatable condition While this suggestion may not be considered thacticable in all cases, owting to the objection drainage in carcews would be filted in, preventing in many cases, be adoptid partially on the higher portions of fieldsc which are tiable upsufticiently dry hard before the lower levels are arcurs that the lowwer parts of a field are not dry
$\qquad$
$\qquad$
$\qquad$
road is past
an invaluabl
The old-fashioned road
an invaluable implement, however. Of the split og drag we have had no experience, nor have claims are made for it, and the reasonableness the plan and the inexpensiveness of the implemen make it worth a trial. It is thus described by The inventor, D. Ward King, of Missouri :
The two halves of a split log ten both flat sides are set on edge thirty inches apart both flat sides to the front. The cross-pieces are strong oak or hedge bars, the ends of which are
wedged in two-inch auger holes bored throuph the slabs. In other respects, the cut is seli-explanatory. If working a clay or gumbo road, it is of the sort-on lower edge of dras at something months, for softer soil, at end of twelve of sid uses, read the following by the inventor and its tions have pouted of this work, so many guesconcerning which the public is prone to go astras in its understanding of how to build and use the split-log drag, that I have, prepared the following road-dragging "catechism," as covering, with far
completeness, the main working facts in the
problem. Wrould it not be better to flow the road berome ing the Prowing gives a soft fommation. Plow.


 hat is haulinge the drag slamt wise. with the tus hat is wown the dras samp wise with the "nd But suppes the poand




 How to von train the rawn?


Pril 12.1290
TRIL 12, 1906
THE FARMER'S ADVOCATE.
 principle may not be profitably applied in the case ime than the year before. It might be interest fore the land has got too dry, a weeder will do couraging to any-to know what can be produced his work better than a harrow. This simple in East Elgin, Ontario. I sold in 1905 implement is used in the West, we understand, extent, in Ontario, with marked bencfit on clay-
loam soils. Mangels may be sown on the loam soils. Mangels may be sown on the flat strokes of the scuffler, the weeder being used after lengthwise again with a tooth removed immediatc-
ly over each row. It is also a splendid thine ly over each row. It is also a splendid thing
to use on grain crops, and in corn. When used of good at nearly all stages, with incredibly little We shall be glad to hear from any of every farm. (3)

| Name at the Road Gate. <br> I have been thinking lately how conveniment would be if every farmer would have his nam painted on a board and nailed up at his roa way bring Could you not agitate this, and in <br> [ Note-It is a carital ideamRSON OGLE. <br> in our issue of March 29th. Our columns $\qquad$ <br> Permanent Pasture. <br> T. Macoun. Horticulturist of the Centra <br> laperimental Farm, writes: . While permanent bastures are not recommencied, as a rule, by the <br> Agricultural Ibpartment of the Experimenta Farms, one of the best mixtures for permanent <br> pasture is made by using 4 pounds each of alfal |
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## Income from a 67-acre Ontario Farm.

Reading your remarks, as well as those of your
many my mind back thirty years ago, when I first took
up farming for myself on a rented, run-down farm, in a not very prosperous neighborhood, and very young to begin farming on my own account, had a very hard up-hill road to go, principally on account of lack of funds and the run-down state
of the farm, and the unvelcome advice of the land his fashion:. That field ought to be planted to corn, as I have had corn on it for twenty-two
years, and never missed a crop." Another favorars, and never missed a crop." Another favor-
te expression of the landlord was: " Don't bryak
up that sod field ; it pays to cut as long as you ip that sod field; it pays to cut as long as you r, as it took so much strength out of the soil growing such a large crop. Such advice, or,
may say, rebukes, as these I got periodically, 1 may say, rebukes, as these I got periodically,
and the ideas were just the opposite to what I
thelieved and and the ideas were just the opposite to what I
helieved and to the way I was brought up, as my
ather was considerod a fond as Well
$\qquad$ ) twin with, and followed the three-year rota-
on that sour correspondents recommend, with
hee weeption of cultinge chen seonoff int the exception of cuttimg clover recomomend, with
phowing the second crop under. This he did by stimulatine the solil hy sowing plaster, though to
the detriment of the soil, as the old farm speaks this surcession will sears continuation of
less one keeprish land, un- wore stack than the farm will feed,

pure-bred calves ........................................ 19000
grade heifier
acres cannin
1400
5719acres canning cor15719
13900
${ }^{2}-$
$\because 2$

In addition to the above, we sold some apples cabbage, which I have, berries, milk, butter an but which must aggregate nearly $\$ 50$. Also the partle growth of four head of grade two-year-ol and stock $\$ 6815$, and prize money on root We also produced on the above farm:
 2
100 acres pens not threshed
10
The above amount with growth of five registerect Holstein heifers, and six Leicester ewes,
and two colts. would be increased fully $\$ 150$ if
many colts as a year ago, twice as many ewesoung cattle, and one more hog have as manymire-bred pigs. So, with anything of an ordinarIngin (
Lightning Rods.cral years, and three years ago I had copper se roderected on all my buiddings. I could, at the time
erected on my buildings, but iron wire has an \&por cent conducting power, while copper has
1 on per cont a heavy lightning bolt is
estimated at a
cable rod, and I often think it is mot capable
ric-car seompanies do not install iron wire compand
rensive copper wire they use if the of the ex
an iron-wire rod would attract the fightn:un inculd only carry off 8 per cent. of the electricityhg. and, therefore, doing greater harm to thehaiding than no rods at alt I Also llisklit thining-rod ought to be put ap sy someone who
has had experience in the business, and not byT. Maty, of Middlesex co. Ont subscribers, Mrhis barns himself with cable made of galvanizediron wire twisted together, sent us an account of
what he had done, and asked us to get the opin-constructed. We wrote to several, and the re
he had dome. The Provincial Inspector of Insur
si-urs crery your by lightning fires would soon be
at an end Among other authoritios consulted
Mas Mr. John Dearness, now Vicu-Principal at the
camions cencorsationdon, who geve a rather
and
Shod his orinion on the fencowire hommarle rod.
wher ain that well-qulamized foncerdedre made
nized as one the leading electricians of the It is believed that when lightning is being conducted along a rod, the current scarcely enters outer surface chiefly. What is needed is a bright surface, and plenty of it. The superior a able for a lightning discharge. Copper has about eleven times the conducting power of iron, but the statement that an iron conductor will carry only
$Q$ per cent. of an electric current, while copper vill carry 100 per cent., sounds like the talk of a lightning-rod agent. As we understand it, an ron wire eleven times the weight of one of copricity, so that if the weight is in proper proporion, the conducting power will be equal. This matter of weight no doubt has a good deal to do with the use of copper instead of iron for electric
viring. Increased weight would mean much-inwiring. lncreased weight would mean much-in-
creased expense for poles, etc. creased expense for poles, etc. This objection
does not apply to rods on buildings, however ; but if a person really believes that copper would he should not himself buy and twist the wire We think that he would find it more than eleven times as costly.
In regard to the wisdom of having men of nowledge and experience erect lightning-rods, ightning-rod agent knows as little and cares much less about the proper construction of them which there are no doubt honorable exceptions, of all the sharks who have preyed upon the public he lightning-rod peddler has been one of the most nscrupulous and extortionate. That is one o the chief reasons why there are not a greate In England, where it has become the fashion to rod buildings by tacking on a ribbon of copagainst the use of iron wire has been brought against the copper ribbon, viz., that the attrac huildinger exceeds the power of conduction, and huildings have been smashed in consequence. Very and it is at this point that rods put up by agents

## THE DAIRY.

## Developing a Cow.

Then we stop to think that all kinds and breeds pair that the catledly originated from the same we begin to realize what an artificial production conditions and todes are; how that environment, along different tines of men have developed them different breeds, with characteristics peculiar to cach breed, and each breeding true to the type, Color and conformation of its own peculiar breed. quires a great deal of skill, patience and, and reance; but it shows what can be accomplished if we have a defmite aim in vie. because of men, are good or bad, oftentimes and education. We environment, bringing up, to be good, if brought up in good and religious said, I have often heard it life, and I will tell you with a great of a child's dainty what the future of that child's life will ce So I believe that the conditions under which an her future usefulness ormines, in a large measure, As with men, the
and we look for and have good is of great value, ows to be better cows from a long to expect stone in the developing of then, is the steppingA profitable cow, in my estimation, is one that
can produce in a year, or, still betier, a sories jears, a good maximum yield of milk and butter. owner, and also produce a good profit to her cach year. This ought to be one of the requisith not only see that sire for the head of the herd, but from a family of regular a productive strain. not only reproduces his good qualities because ho intensifies his weak points as well. See that he is as near perfect in conformation and dairy exercise in mating our animals, some faulty mad
will develop that we hall not
wo figure sire is right, and that the dond, to see that the foundation are right, we have gone a long fore for
toward their I recently heard of a brecter that, when the ined, and if it did not have ho many develomeeth, and the udder and teats just as well de-
celoped, it was knocked in the beed
that most valuable animals, for we hate found duction of wolesome goods. veritable heifers do not develop alike. Some are regarded and steps are not taken for the improverment the handling of fruit. others do not develop real good cow qualities un- of such conditions, he may have a pernalty, not to ex- $\$ 50$, imposed on a each offender.
til three or four time many shares of the capita
stock of the company were transferred
til three or four years of age.
Calves should be fed in such a way
impair either growth or digestion, for later to
we are going to ask them to take care of a lot
of feed, so that they may develop and be profitable animals; but if fed and cared for in a care-
less and harmful manner, their digestive facultios less and harmful manner, their digestive faculties
have been impaired, and they simply say, "we can't do it."' a believer that heifers freshen too young; if allowed to drop their fir age, they will get a little more mowth strength, and we believe their digestive abilities are also strengthened
velopment of many things that enter into the development of the dairy cow, and possibly if any
one was dropped out the best of results could no be obtained, and the man that uses that part of his body above his ears the most freely usually ucceeds best.
We have come to believe that a large part i
due to the feed end of the question. the of digestion, like the other organs and muscles of the body, are developed best by constant use The breeder that through neglect has not pro
vided in some way for the emergencies that al ways come, is short-sighted. We all know when a cow once shrinks in her milk how hard it
is to get her back, and quite often it is impossible. hand to provide in some way ior these tas us in either have some soiling crops growing or enough silage stored up to supplement the short pasture I believe there is such a thing as compeling success. Every breeder should have compelling plete understanding of his business, and the in-
dividual needs of no timual needs of each animal, so that there is abundance of good rich, juicy foods best suited
The successful de
on the breeder's eksa Sunbeams, or Shadybrookt. Gerbens, do not
come by " happenstance." of equipment : First, right They are the result right feeding; third, right care.
One man, in writing of cows,

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does not make her milk from runnin
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sunny skies." To be sure she does brooks
believe that the water and the does notshine are yuite
important factors in the best milk moroduction.
Convenience for watering, and at the right tem-
perature, means something; and the pleasantly
perature, means something; and the pleasantly-
situated cow-stable, with plenty of windows
the sun to shine through, means something ; good
Warm, clean stables, well ventilated; balanced
rations, kindness, patience, watchílnocs,
toitiveness""-all mean something.
I made the assessment in our
year, and, in getting statistics, asked how many
cows were kept during the
pounds of butter were made year, and how many
ship, only found three or four men that could an-
swer definitely. Fach one knew how many buch
els of grain and potatoes were grown, and bush
question it was all an utter came
der, then, that the average butter
o jow, when so little interest in
F. H Scrimer in

New Dairy Association.

the members of the old association assembled last week
ment has assumed the liabilities of the old association
the formation of a new association, to be known as the
British Columbia Dairymen's Association
and officers were elected as follows
Wells, Chilliwack; Vice-1 President President, A. C
Sidney; Secretary-Treasurer, F. M. Iogan, Victoria
Deans, Victoria; w. E. Buckingham, Eburne; S. Smith
Auditors: W. J. Raymur, Kelowna; C. Quenell, Lumby
ningham,
The new
overnment
the inspection
and surroundings
mended, provides

Ten, per cent. of tine patrons. of every creamery or 130 k of the company were transferred to some
cheese factory in Canada, and in some localities fith cheese factory in Canarda, and in some localities bifty chards of the country, and the membership is con
per cent., adopt of the stable from getting int, the milk, so unless these Stantiy increasing. On the 8th day of August ground was broken shall the a long time in reaching perfection. This is on the railway-siding for their ten-thousand-harChink over; but thinking will not make No. 1 butter- cement, and said to be the finest fruit storage
March Notes from Guelph Dairy School. that it was only twenty-eight days from th. that it was only twenty-eight days from the
breaking of the ground till the plates were bolted
on the walls, which are 25 feet high The story is 10 inches thick, and the basement 14 ,
standing on a. footing 30 , inchos standing on a.footing 30 inches wide and 1 foot
thick. The walls are insulated with lumber, and 4 inches hard-stripped, kiln-dried planer shavings. The ceiling throughout is of matchec
lumber, and filled between joists with 8 inches lumber, and filled between joists with 8 inches of
Hlaner shavings. The building is also providel with watilators, which are working so ceffectual-
ly that there has been only thro Iy that there has been only three degrees chan-e
in temperature since December 2 nd-all the time
from nearly perfect for the kepeping of apples, which is
ping facilities are so convenient that a car can the ping facilities are so convenient that a car can-l
loaded in 30 minutes. How THE FRUIT IS HANDLED. The growers pick and pack their apples in
their orchards, but do not grade them. Thev are then brought to the fruit house and stored
till wated for shipment. They are then graded
and parked by experiened there is a uniform grade. All XXX apples are
the same, and also mis. either the have to go with culls, which are sent
to the evaporator or sold for immediate are to the evaporator or sold for immediate use for
what they are. One dollar por barel is advancod
whon when applese are received, and balance when sold Wait the close of the season. Many prefer tol
wait till the tinishing-up, and then get all their
momes at momes at once This is, done the ge get all their
warehouse receipt, and the bank adve of a
monev money. Of course, those who do not take the
money are not charred with amount are not charged with discounts, but these.
salus are sery little, anyway, as the proced sales are sory little, anyway, as the proceeds of
taken out. desired, although results have heen all that could be in tusimess. Their skillful the companys first year Mg and packing, ogether with up-to-date business
methods, have cnabled them to got the highest price in the Od Country markets of any highest
on this side of the water this chipers
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No Culls for the West, Thank You! The Georgian Bay Fruit-growers, Lid. Editor "The Farmer's Advocate ":

The Planting of the Farmer's Home
Elms Grounds. The making of a lawn was discussed in nur oit about cighteen inches and for about two feet or two will show up well. They have an advancheaply the work could be ,lone. While it womlin in width, where the climbers are to be planted, tage over the hard maple in that they may be probably not be possible in many cases to do all and replaced with good soil. The strong growth pruned up when necessary without losing their
the necessary planting of trees, shrubs and whes which will be made when this is done will well re- graceful appearance. Other large-growing trees the first season, a beginning should be madl, pay any trouble which is taken. As the plant- which may be used with good effect, but which "cen although it be with butt a vine or two or a ing is done close to the house, there should not are too large for a small lawn, are the hard maple, fow shrubs and trees. Sometimes planting is be much disturbance of the surrounding soil, Norway maple, red oak, white, red land Scotch pines, put off from year
that there will not be time to do all that is in whith lawn are taking for granted, is seeded down and the Norway spruce. They may be grouped at
nanting, the roots should the rear of the house and back of the lawn, and our mind, whereas, if a heginning
were made, and a little done cach yoar, it would be surprising how
somon there would be a change in
the appearance of the home surthe appearance of the home sur
roundings.
There is nothing which improves a prace so quickly as vines, and -
 is not troubled with insects, and
hence the veranda is kept cleaner,
and one can sit out with comfort,
The Climbing Bitter-sweet is also a very clean vine, and it is not af-
fected with insect., either. It has
pright-green leaves, and although the fright-green leaves, and although th chember of the household who is
old enough to know how to plant anything. Three of the best climb-
ers are three of our commonest ers are three of our commonest
wild plants, namely, the Widd Cle-
matis or Virgin's Bower, Climbing lifter-sweet, and Virginian Creeper. If these vines are not grow-
ing somewhere on the farm, one
should be able to recall where he has seen them growing wild, he they can usually be obtained without cost For a veranda, we preattractive foliage and flowers, and

Vircinian Creeper, covering a back porch and kitchen, turning an unsightly place
into an attractive one, and making the kitchen cooler in the hot days of suminto an attractive one, and mak
mer than it otherwise would be. wi! form an excellent background
if planted in a clump, and will if planted in a clump, and will
make a splendid wind-break both in make a splendid win
winter and summer.
For shade and ornament on the lawn, and near the house, smallergrowing trees and shrubs may be
used to advantage. There are many of these to choose from, but a few only will be mentioned, all of which are easy to get, and are among the most ornamental. One growing trees is the European Mountain Ash or Rowan Tree. This, is a hardy, rapid-growing, sym-
metrical tree, and is attractive in metrical tree, and is attractive in
flower, foliage and fruit. It looks best when the branches are left on near the ground.
Cut-leaved Birch.-While this tree Cut-leaved Birch.- While this tree
is a little more expensive than some of the others, it is so graceful and ornamental that one will never tire admiring it. It is very
hardy, and a quick grower. hardy, and a quick growe
Crab Apple.-There is more suitable. for a farmer's lawn or for any lawn, for that matter, than a well-shaped crab-apple
tree, the wealth of sweet-scented flowers in spring and the highly colored fruit in autumn making it very ornamental, and the fruit be-
ing always in demand for preserv-

Howers are insignificant, its highly-
colored fruit, which remains on the Of the winter, makes it quite attractive at that the latter pressed against them. There is no season of the year. It is a very strong grower, danger in planting the Virgin's Bower, Climbing
and will soon add much to the appearance of the Bittersweet and Virginian Creeper too deep place. The third climber, and one which is per- They are better planted a little on the deep side, haps more often used than either of the others, as they root readily along the stem, and will be
is the Virginian Creeper. As is well known, this in moister soil. We have discused climbers is the Virginian Creeper. As is well known, this in moister soil. We have discussed climbers at is a rapid grower, and will cover a veranda in a some length, as they are so easily obtained, will
short time, and in the autumn is very attractive make such an improvement in a short time, and on account of its highly-colored foliage. This can be planted by almost any member of the
vine is, however, much troubled with a little family, and hence will be more likely to be planter hopping insect called a thrip, which is so de- than trees and shrubs, some of which may have wither, and often during the latter part of the
summer the vine is quite summer the vine is quite
disfigured.
This is a verv difficult This is a very difficult
insect to control,, and
because of this we prehectause of this we pre-
fer keeping this vine fer keeping this vine Where in the background, luxuriant
where
crowth in the early part growth in the early part
of the summer and its rightly-tinted foliage in the distance. There is Self-fastening variety
of Virginia Creeper which
vill cling tighty will cling tightly to a a seful and this is very
the side of the ouse or unsightly out-
houses. In the warmer In the warmer
arts of the Province of
atario the Japancor Mtario the Province lest plants for covering
walls. There are other
Whimbers wi th more
Cheautiful with
 ing and jelly-making by the thrifty housewife Among ornamental shrubs, the following will give bloom for most of the summer, among the earliest-flowering being the Spirmas, which begin
to bloom early in May, and become a mass of to bloom early in May, and become a mass of
white flowers. Two of the most satisfactory are Spireoa arguta and Spirea Van Houettictory As these are under five feet in height, they may be planted near the house, and look well if several are
grouped together. Following the Spireas are the grouped together. Following the Spireoas are the Lilacs. There has been such a marked improve-old-fashioned kind is now surpassed by many of the never ones, which
vary much in color and vary much in color and
have both single and double flowers; but,
even if these even if these cannot be
obtained, there is no more popular shrub which blooms in $t h e$
spring than spring than the common
Lilac, and it should be difficult to get sơime from a friend. Then there is the Tartarian Bush Honeysuckle, ${ }^{2}$
hardy shrub, and a very hree bloomer, which grows to about 10 feet in height. This also blooms in May. Some
of the best shrubs which bloom in June are the common Mock Orange or Philadelphus, and the large-flowering species,
which blooms a
little later; the Snowball, and the High-bush Cranberry, the latter beins a
native species which is native species which is
not appreciated as much as it deserves, as the
leaves, flowers leaves, flowers and fruit fruit remains on the
bush most of the bush most of the winter,
and brightens up the grounds in winter very Clematis. varicties Plants should be dug up with as many roots
as possible, but instead of trying to save all the Want, only about two feet or less of the wood
Should be left on, the rest being cut away. if解 in the spring the planting is done the more there witl be, but if planting is neglected proper time, we should not hesitate to dig a plant even when it was in leaf, as, if the
is are not allowed to become dry before plant-
and the soil is moist it will be almost sure
small tree not often planted, but a


#### Abstract

cut back from time to time they can be kept well very desirable one,


 under control. It is a mistake plant trees 100 close to a to a height of fifteen or twenty feet, and alhouse, as when they grow up they prevent a free though it does nifteen or twenty feet, and alirculation of air, and sometimes make the house the common Lilac, it is well worth planting. Ittoo dark. Some of our native trees are among blooms from the last of June to early in the best for planting, and there is no tree which The last shrub which we shall mention in July. in time will give such character to the farm home large-flowered Hydrangea (Hydrangea paniculata as the American elm. As it is a rapid grower grandiflora). This blooms during the months of
and reaches a great size, it should not be planted August and September, and the inment and reaches a,great size, it should not be planted August and September, and the inmense panicles
within ifity ieet or more of the house, and should of flowers must be familiar to eversone. In order be placed in such a position that whon it grows to succeed best, the Hydrangea needs plenty order
moisture,
the spring,
e spring. When planting either the trees or shrubs men-
tioned, or others tioned, or others, the breaking or dividing up of as the planting and the lawn as much as possible, effective when the trees and shrubs are set towards the corners. at one side, or at the re much as possible, instead of to group them as here and there, without any apparent relationshid to each other
Unfortunately, a hedge is a rare sight on
farm, and yet there is nothing limits of the home grounds as well as a hines hedge is more effective along the side or back of
a lawn than in front, as a hedge in front of a lawn than in front, as a hedge in front of the
house lessens the effectiveness of a nice approach house lessens the effectiveness of a nice approach
to it. A hedge should be planted far enough
back from the edge of the lawn to teave remer a wide flower border between it and the lawn. a narrow border is left, it will probably get nar
rower from year to year as the in time there will be little left. Wrass grows, and vise setting the hedge far enough back so ad there will be at least six feet in width for a the most satisfactory hedge, and young thite makes often be obtained near the farm. The best satisfaction is obtained from planting young trees get them with living branches to the ground unless the branches come to the ground, the hedge will look ragged. As the Arbor-vita throws out
roots readily roots readily along the branches, it may be plantis not possible to get them with branches, if it ground, they may be planted deep enough to
bring them dewn bring them down. Although the Arbor-vitas will
succeed in most succeed in most soils, it does best in good loany
ground, and we should advise a thorough prepar tion of it before planting. The trees may be planted in a single row about The trees may be
and the earlier inches apart ter the results will be. As they are set, the bet bly be uneven in height if dug up in the fields or
woods, they woods, they may be made the same height cutting back the tallest ones after planting can be obtained trees are to be preferred when the For large grounds, the Norway Spruce makes an excellent hedge, being a rapid grower and pri should not be set so close. The young tree three feet apart being near as anough. The hedg will not be formed quite so quickly set at thi Buckthorns make excellent more permanent. Th green hedge is not desired, the Cathartic an Alder Buckthorn are good substitutes. The soi
should be kept well cultivated about a hedge dur should be kept well cultivated about a hedge dur
ing the growing season to get the best results. ecommendations regarding the making of flowid forders and flower-beds, and the growing W. T. MACOUN, Horticulturis
Central Exp. Farm,

## Vegetables for the Farmer.

 garden. is the time to get ready for the vegetable have in our gardens as early vegetablegh and how are we to succeed in growing them. For thowthat have proper hotbed storm sash proper hotbed sash-or the window time before April 15th to sow early cabbage, cauliflower, tomatoes, celery, lettuce, etc. The
hotbeds are very simple to those who to make and manage them, but the beginner scarcely knows where to start. Dut the beginner is to know the size of your sashes. Suppose they
are 3 by 6 feet, and you have four the make a nice bed, and will take two good loads of hot manure. Mark out your bed 8 feet by 14 feet, if the soil is not frozen, dig out about 9
to 12 inches deep. Put the naanure in evenly to the depth of 15 to Put the manure in evenly to season: 2 feet, if made up in March. Haye mayour frame. Have and tramp well. Now make front board 10 inches side board 14 or 15 inches above back and front boards, to protect the sach from the wind ; use $2 \times 4$ for cross bars for sash square, so that the sash will fit frame nice and Now put soil in to the depth and slide easily nice light, rich soil. If the soil is ' inchesput on the glass sashes, if well with not, make sashes and cover them wis : if headed tacks tetch tight, and tack with leather Bry this tims. Let them stand for three days. all through, the bed, and the soil warmolte active and the weed sceds near the surface have germh, thoroughlyen remove the sashes, rake the surface fine seed-bed. Now have you live near a market, sow one sash with celery -Paris Golden Yellow. You can raisi abont
2,000 plants, and in the same sash you can sow
halif a dozen cauliflower seeds. Dwarf Frfurt or to had. The plants were sown in window boxis
Snowball, as they generally bag. Sow cauliflower evenly all over the bate in April, and transplanted gown in window boxis
then the last if then cover with back of rake, and tread the bed Cabbage, ©.Jersey Wakefield. Cauliflowend ar. will after seed is sown. The cauliflower plants Frifurt. Celery, Carly, Paris Golden; late, Dwait will be ready to prick out in boxes, or another Pascal. Celery, carly, Paris Golden; late, Citant nicely up. The shade of the cauliflower is a pro- son's irom the hotbeds, Grand Rapids and sinn tection to the delicate little celery plants a pro- son's Black seeded. Peppers, Iong and Red imp sash can of growth, rather than otherwise. One ion Day, Pink Plentiful Red, Earliana and Domin and one for lettuce tomators. one for cabbage, lork Co.. onions for planting in the row of Prizetaker
friends. Just one row in the bed of asters
per fors and
petunia, phlox Irummondi and marigold, will
make a nice show by August. when sown in
hotbed and transplanted. Now you have the
hotbeds made and sown, be careful not to destroy


A Charles X. Lilac, showing how a Lilac should


The Large-flowered Hydrangea (Hydrangea paniculat shrubs. grown with flowers to shows how it should e
about by pround. This is brouve
your plants for want of air or vemilation Fan
at tho. chickse crew fister "re used all the way alone.


"indow Xex.er hate the boxes ment", that iom





United States Farmer' Bulletin No. 236 thus
summarizes its instructions regarding. ning of incubators :
study youn Acquaint your incubator Read the manuiacturer's directions for setting

Set it up carefully, and according to instruc
tions.

Set fertile eggs only. Waste no ceffort on those
Learn how to trim and clean a lamp.
Keep the lamps full, and the wick and twe

## Sce that the eggs are clean and dry before

setting them
Balance all cggs, large end up, a fow hours
fore pacing in the tray
Do not overfill the tray
Turn every egg the third day
Cool the eggs avery mornid
Be sure your hands are clean when handling
ho eggs.
Test again ay by the seventh day
Tost again by the elfeventh day


## the tirst hatch. Yon will learn that later cell Io mot disturb, the eggs after the evening of the "Mghteenth day.



at till darken all the folloen wey misture they octock

## ture was gradually ren about throwe weephe old this would

## Feeding Young Chicks

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THE FARM BULLETIN















Interesting to Horse-breeders.
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F. C. Elford
Chief, Poultry Division, Ottawa, who has accepted th
Macdonald College, ut Soultry Department of the de Bellevue, Quethe number of which was strictly in accordance with
he Act.
This old association, through the Toronto HorseShow, has accumulated quite a surplus. The Agricul
tural I Departmentbreeders' association composed was important of to have
same time it was recongized At Ansame time it was recognized that of bome of these local
associations were important factors in the tolding
$\qquad$
$\qquad$Cunadian Horse-breeders' Association to name of theHorsemen's Association, leaving them free to take in
$\qquad$
$\qquad$ny similar work elsewhere © thus, they can continueover $\$ 5,000$. The S.i surpluse of interest only to breeders, and, therefore, it isproposed to organize a new association, to be called the
Ontario Horse-breeders' Association, which will get its Ontario Horse-breeders' Association, which will get its
membership only from the breeders, and through which, it is presumed, any further grants will be made. The details, however, are yet to be worked out.
In the estimates is a vote for $\$ 6,000$ for spring In the estimates is a vote for $\$ 6,000$ for spring
stallion shows and investigations. It is expected that
the bulk of that appropriation will be used in investithe hulk of that appropriation will be used in investi-
gating the whole horse question this summer, with the hope of arriving at recommendations for future work in
assisting this industry. The new Act provides that each local Horse-breeders' Association shall make its own constitution, subject to
the approval of the Minister. and that it shall have by-laws providing for the number of directors, their
sepresentation, and their mode of selection. This will enable each asssciation, in connerenence with. the Minister,
to devise a method oi organization that will be suit1o devise a method of organization that will be suit-
able in each case, and that may be subject to change on the approval of the Minister. Any change, therefore. will not require an amendment to the Act.
The hill provides for the incorporation of the Provincial Winter Fair (Guelph), the Eastern Ontario Live-
stock and Poultry Association (Ottawa). and also for the organization of certain societies for the purpose of
advancing some branch of agriculture, these societies particul: rs by the Act. Provision is also made for the organization of an advisory board on live stock, to ad-
vise tho Ministor recarding matters of interest to the
livastock industry. The organization of the board is

Two Appointments to the Manitoba Agricultural College.

Frutit Institute Meetings, Niagara District.
Acting as Secretary at several of the meetings of the
Fruit Institutes, held by the Niagara Peninsula United Fruit-growers' Association, at Beamsville, Jordan, St. ruit-growers Association, at Beamsvile, Jordan, st.
David's. St. Catharines, and other points, I took a few notes on the various addresses. The meetings were well attended in most cases, and the questions asked and
discussions were most interesting. The two speakers,
The Willis T. Mann and J. S. Woodward, are both good, level-headed, practical fruit-growers, from Western New
York, and have certainly given the growers in this locality much valuable information The roads, in general, were heavy, or else, in some
instances, the halls would not have been large enough. Many grower's are now realizing as never before the necessity of spraying, and the advantages of growing
ruit of superior quality. The systems of culture and fruit of superior quality. The systems of culture and
heading of trees are very different to what they were a few years ago. apple culture.
the evening meeting, Mr. Mann took as a subect "Apple Culture." Apples as a fruit are of the
greatest intrinsic value. They have become more of a statest intrinsic value. They have become more of a
staple product than any other fruit, and are considered a ncessity by rich and poor alike. A few years ago
apples were considered an unprofitable crop in many apples were considered an unprofitable crop in many
localities, while to-day in his section (Western New localities, while to-day in his section (Western New
York) farms are now valued by the net income derived from the apple orchards thereon, or their adaptability to produce a good apple orchard. Many orchards have
averaged from $\$ 500$ to $\$ 1,000$ of fruit an acre in a single season. The last census of the United States in 1899 gave $201,000,000$ trees as the number in actual
braring at that time; these produced $\mathbf{1 7 5 , 0 0 0 , 0 0 0}$ The increased profit of late years, and consequent incranse of interest, has resulted partly from the the inroads
of the San Jose scale and fungous diseases, such as the of the San Jose scale and fungous diseases, such as the
"app,le scab."
These necessitate constant and careful spraying, and have wiped out the small orchards and coting. The market demands good fruit, and buyers eadily pick up a good article at a remunerative price, compete with each other in buying. To-day there have been radical changes made in care and method of culure. His system is to get two-year-old nursery stock fiom the ground, allow the lower branches to $2 \downarrow$ feet prune very little-just enough to shape the trees-rive thorough cultivation, and spray systematically. The orchard he plants on the filler system. The desired
distance of trees apart for certain feet; filling in between with other varieties makes the trees $20 \times 22$. The intervening trees are cut out when the limbs commence to meet and crowd. By this system he has had an orchard now seven years planted,
which has produced crops for three successive years, and which the last season produced 600 bushels on eight acres. Fxcessive pruning when the trees are small tends to promote wood growth. Then when trees are larger,
low heading is practiced by keeping the trees pruned back at the top, as the tall apple orchards cannot be
ellectively effectively sprayed and leave a margin of profit. Mr. Mann prefers to grow the apples of quality, for example,
Spitzenberg, which is one of the finest, but is often sub Spitzenberg, which is one of the finest, but is often sub-
ject to blight, and has become classed as a "run-out" variety by some. Such varieties, if sold with others of poorer quality, will help the sale of the whole lot, and if properly sprayed and pruned, when old, to admit
sunnight, the fruit is of excellent size and appearance. COVER CROPS.
The use of cover crops in orchard management was a subject handled by Mr. Woodward, who introduced it
by giving data from a bulletin of the Cornell Experiment Station, which estimates that in an average soil hy the trees, per acre, potash equal to that the thos from twenty tons of unleached hardwood ashes, phosphoric acid equal, in amount to that in fifteen tons of good phosphatic manure, and nitrogen equal to that
in nineteen tons of nitrogenous manure. acid and potash, if nitrogenous manure. Phosphoric be supplied only by manures containing these, while nitrogen may be supplied by the use of cover crops, such as the vetches and clover, which gather the supply from
the air. cultivation tends to produce crops are many. Constant of trees. A cover crop checks the growth of tree and of trees. A cover
wood. Then in the fall the leaves of the trees drop to wood. Then in the fall the leaves of the trees drop to
the ground, and as the leaves contain much more plant
food than the lood than the fruit, it is necessary to retain these. The away and lost, if the orchard is exposed are blown Iso is a protection tivation followed. The cover cro retard frost from entering, and much more does it it this when it holds the snow. It will also add humứs from baking, and make the light soil more retentive It helps the soil to hold the water necessary for plant growth, also the plant food. In many localities soil
would wash, while the cover at certain seasons of the year, as late fall, when and up much of the solyble plant this cover crop will take ap waych of the soluble plant food which would leach
a way. hold it. Thus it becomes available to the
trees after the cover crop is plowed under. ees after the cover crop is plowed under

THE FARMER'S ADVOCATE.
vetch, which winters well and grows very rank eaxly in
the spring. Crimson clover often does not winter well so Mammoth Red clover is used. If the orchard has
been properly cultivated to retain moisture, sown the middle of July, and will grow and winter well, making a good growth the following spring. Cow peas a tendency to dry up the land early in the spring, by using up the moisture, so if left too long before plow-
ing under it may be injurious. This should be guarded against. Rye is also useful. On account of its hardiness it can be sown very late in the season. It gathers
no nitrogen from the PRINCIPLES OF FRUIT-GROWIN
Methods of fruit-growing may vary, said Mr. Mann on air, heat, sunlight, water and soil.

Plants breathe carbonic-acid gas from the all the leaves, and give off oxygen, the carbon uniting with soil by the roots, and forming starch, which foor the the tree. Air also makes soluble the inert plant food in the soil. Shelter-belts or wind-breaks modify the
force of the force of the wind, while drainage, humus and tillage
help admit the air to the soil. Heat is as this aids chemical changes in the is also necessat as
soil. Sunlight is also absolutely essential, as leaves
cannot perform that cannot perform their functions without sunlight. The
effect of this is best seen in a eliect of this is best seen in a bush or dense apple
orchard-the life of the tree is at the top shaded branches die
The water is the conveying medium between the roots
and the branches. It is necessary to bring the plant food in solution before the tree rocts
can absorb it ; an excess in the as well as a scarcity ; absence of water harmful citen by stopping the functions of the tree.
In planting we must have a suitable soil; we mu give room, so that the trees do not shade each
and if best results are to be obtained, the sunlin have free access to all branches ; therefore, the nee sity of pruning.
The speaker advocated the low-heading of trees, easier to harvest from low hunlight, is easier easier to harvest from, and when sunlight enters, grood
well-colored fruit will result, if the soin


## A Large Class of Graduating Vets

 turned out of the Ontario Veterinary College this Forty-four years ago, when the College started, it ,000 students has nearly 300 , and upwards of class comprised 103 from all parts of America, from thy Argentine, Trinidad, Jamaica, England, Scotland and The list of graduates and prizewinners follows Anderson, New York City; Waterford, Ont.; HerlertMd., Artie B. Angell, Taneytown. George S. Arnett, Knowlesville, N. X., M.S. Howan Atkinson, Edgeley, Ont.; J. S. Atkinson, Marinette Wis.,. U.S.; Charles E. Attale, Port of Spain, Trinidad Cavetown, Md., U.S.; Alder Dover, Ont.; John P. Beck 1.; James Scott Bone, Paisley, Ont.; Harry H. Berry
Brantford Brantiord, Ont.; Howard B. Brady, Millerssille, Pa., I
S.; John F. Bracey, Rockwood. Ont. Fravi T New York City, U.S. Van. V. Botlichank T. Burnet! U.S.; John G. Buie, Michel, B.C.; Frederick T Caid Forest, Ont.; John L. Carolan, Dobb's Ferry, N. Y. U.S.; Earl H. Carter, Toledo. Ohio, U.S.; Charles
Casey, Syracuse. N y Casey, Syracuse, N. Y., U. S.; Edwin
Howell, Mich., U.S.; Francoise de F L River, Man.; Victor V. Christie. Island Baumont, Oah R. E. Christopher, Armstrong, Iowa, U. S.; Donald I don, Eng.; Thomas F. Craiges Fielding Cottrill, Lo S.: Glenn W. Cronkite, Alma, Mich., U.S. Volney Ma ning Curry, Leslie, Mich., U.S.; Daniel J. Cronin, Chel
sea, Mass.., U.S. F sea, Mass., U.S.; E. Beverley Cowan, Orono, Ont.; J
Graham Davidson, Niagara Falls, Ont Jamestown. N.Y., U.S.; C. Edgar Edgett, Moncto Dison
J. Jamestown, N.Y., U.S.; C. Edgar Edgett, Moncton,
B.; John A. Espindola, La Plata, Argentina ; Col. F
Edmunds Ardstay Edmunds, Ardsley, N.Y., U.S.: Wm. Austin Ferr, Put
in Bay, Ohio, U.S.; Louis P Foss
 Scott Gebbie, Howick, P.Q.: George H. Gerlach. Fim Ohio, U.S.; Eugene L. Hannon, Pittsfield, Mass. Charles Edward Hayes, West Shefford, P.Q.:
Head, Buffalo N Y bury, Vuft, U.S.: Arthur D. Howden St Hill, St. John:
 ton, Wis., U.S.; Chas. A. Joynt, North Augusta, Out ames Jones, New Liskeard, Ont.; Robert Kenwell
Mount Eaton, Ohio, U.S.; Henry F, Kirkhy Ont; Judson Kellogg, Ripon, Wis., F.S.; Thos, Waltom
Tottenham, Ont.; R. Harry Leadley Colkt. Tottenham, Ont.; R. Harry Leadley
W. H. Tulloch Lee Boisevain Columbus, Miss., U.S: C. Douglas Merley M. Leigh Walter H. Mckenzie, Oakville, Man.: Donald McMill.
mont, Ont: C. O. Maconachie, Guetph, Ont.: Win. Frane
Madill, Orillia, Ont.: Stanley Thomas Martint



 Reginuld Edward Murray, Cookssille, Ont.; Wil
Moore, Detrolen, Ont.; Maynard S . Nighbert
IIl. 1'egg, Holland Landing, Ont.; William Unt.: Ha P'egg, Holland Landing, Ont.: William Reid, N
neya, Unt.: James Marshall Reilly, Rupert, P.Q. Martin Rice, Salhouse, Norfolk, Fing.; Chas. D.
Allenturn, Pa, LS. S.; Albert B. Bitter hurg, l'a., I. S.; Abram W. River, Cresco



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Municipal Telephone System.
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Interest Pa'd 4 Times a Year

57 BRANCHES

## sain the marhin <br> been any actua $h-$ killed abactol <br>  <br> THE CANADIAN BANK OF COMMERCE

turpe, weighing 25
13 fc . Sor large, 18
tra small sizis, 8
$\qquad$
$\qquad$


Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$ HEAD OFFICE, TORONTO
B. E. WALKER, General Manager ALEX. LAIRD, Asat. Gen'1 Manager
BRANCHES THROUGHOUT CANADA, AND IN THE UNITED STATES AND RNGLAND
a general banking business transacted
Every facility afforded Farmers for their banking business. Sales Noter cashed or talken or collection.
BANKING BY MAIL.-Deposits may be made or withdrawn by mail. Out-of-town accounts receive every attention.
still quoted at 90 c for No. 11 northern,
store.
ontario white
wheat is now quoted at 84tc., store.
Hides-The quality of the beef hides
 Prices continue at 11 ..., 10 c . and 9 . per
ib., for Nos. 1,2 and 3 , respect vely, tanners being charged an advance of to.
sheen skins are now on these prices. Sheep skins are now
si.15 to 81.20 eanh, and clips, 10c. each, ihe difforence being made up in the value
 10c. each. Calf skins are 13e. per 1b.
for No. 1, and 11c. for No. 2. Horse hides are steady at $\$ 2$ each for No . , and 81.50 for No. 2. Tallow is 4 sc c.
pers 1 b . for rendered, and 4 to. to 2 tc . per rough.
for tor rough
Feed Prices are steady, at $\$ 19$ to $\$ 20$
and per $t$
bags.

Mritish Catrle Market.
ondon.- Cattle are quoted at 11 c . to
per b. : refrigerator beef, 9 c . per
sheep, dressed, $1 \overline{\text { ñc. to }} 16 \mathrm{c}$. per 1 b . ; The Union Steck-yards, Toronto Jonc-
tion, will, hereanter, have two markets

## SUN LIFE ASSURANCE CO.

Evidence Before Commission Emphasizes Its Strong Position and Conservative Methods.
About Two Million Dollars Better Off Than If Claimed to Be. COMMENTS BY THE COMPANY.

fied that detailed lists had been furnished to him both last year aud this year,
and that these securites had been
checked exactly as the other seurite checked exactly as the other securitisis of
the company. He produced statements of these securitess which had bean
furnished by the company to the departfurrished by che companh to the depart
ment. He admitted that to the extent of their value, the company was that
much better off than it clained to be much heter of than it claiked to be
and that a valuation of this contingent Cunmpany in November last amounted to
come 81.988, Non. The per value of the sestrengeth o
THE COMP
In the year 1905, the proft made by to $81,344,371,80$. Of this amount \$16,541 was paid to policy-holders,
whose policies were entitled ${ }^{4}$ to particine. tion in that year. of the balance, 8616,541 was set aside to complete the
piacing of all leserves on the
 Was added to the published surplus,
brinn ${ }^{\text {bing the total surplus claimed up }}$ the to Inringing the total surplus. claimed up to
$\$ 1,7 \pi \overline{3} .698 .59$, over all liabilities and cnpital stock, even on thil this seviliteres atan dard of valuation. The evidence before
the Commission has now brought out the Commission has now brought out
that elen these figures, splendid though Chey a.e. tell but part of the story. for
the company is really about two million dollars better, off than even it claimed to
be.
This himhly-prosperous cordition has al-
renty heneftel rendy benefited ourp policy-holders, both as
regards security and profitalleness Intre surplus mankes the company. one or
the most powerful financial corporations on the continent in proporition to its
size, and when to this we add the two millions of inactive securities, it is seen
to be a veritable tower of strength. In regard to profitableness the company has
been able to make the three-and-a-half-per-cent. basis with comparatively little hardship to the policy-
holders.
The total amount
Thich
 of the Act of 1899 has been $\$ 1,186$,-
111.41 , and less than
one-sixth amount has leesen than one-sixth of this by reduction cf
the fivesixt hs having been obtained from
prote proits on the company's investments.
Moreover, the basis for tre distribution of cash pronits in 1905 was higher than
for 1994 , and that tor
hicher than for 1906 in it
it being paid are already back on a hriflys
satisfractory hasis, even antur complying
with the chanve in the with the change in the law, while the
Teresn tstrong position of the company
warrants some enthusinsm as to what Whe future some enthusiasm as to
thents will probably be.




THE FARMER'S ADVOCATE

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\begin{aligned}
& \text { The no } \\
& \text { velo }
\end{aligned}
$$

 and foturation

## Decision of Debate

 The decision in the recent debate cation Qualifying for a Teacher's Certificate is of More Advantage a Farmer than an Education Quali fying Him for a ", Diploma fromBusiness College,"
has resulted in majority for the Affirmative. cordingly, one of our Society Pins has been sent along with the regu-
lar prize to Mrs. Hunt, the writer of the first-prize essay on the Affirmative.
Next in order come the essays by for the best criticism on the a prize 28th day to us not later than the at once. Your Kindly write us help to the writers of the will be a the debate, and a help to yourself ouce, in order to write any criticism, you must exercise the faculty of balimportant, perhaps, of all the most ual." he who would be "" individbrisk response in this shall have

New Members.
We have entered the names of all
Who were interested enough to write
re decision of debate on our list as
members of our Literary Society, and will ook our literary Society tion and assistance whenever po

## Our Tennyson Competition.

 new brunswick carriesgive you an ond plasure that we
give you an opportunity of reading
Fair women
fess it-just a little may as well con-
fess it-just a little uneasy about
this competition. The subject wa
this competition. The subject was
complete

- The Farmerts for discussion in
"feeler ", to torms Advocate." $\Lambda$.
Society folk could do. howeyer
promised
the scenes
a single essay appeared by, and not
draw long breaths, and to watch with
unusual anxiety for the mail. The
rather as a joke among the office
fraternity, and it was not
to see a smiling face thrust unusua
he "sanctum" door each morning a
And the query, "Any Dreams yet?"
was as invariably replied to by "
laugh as the face and its owner dis
Then, almost at the eleventh hour
the essays began to come in-one by
one, two by two, and three
-and the laugh was turned three
Was afraid we had floored them that
editors, as we looked of one of the

Hoored was clear that we had not been tred them." Our farmers had pluck," to us and to their own Tennyson speaks of the fact that, (veluck," and the evidence of own their the poem, whereas eight women in "The Farmer's Advocate" has ever challenged them with was there,
tangibly enough Several of the competitors, in writ-
ing us along with of the "pleasure ", they essays, spoke struggling with the poem, and one said: " I don't care whether I get mental exercise, anyway, had the Was what I wrote the essay for : This is the true spirit ofsay for." literary work. The prize counts for
comparatively little-although it interesting to have the memento it
so-but so-but the work, we trust, means a In regard to say that each the essays, we may amount of each evinced no small
study study, We do not say that those published are in all points the best Some of those which did not win a respects better ; but we thought best to award the prizes thought it
who wrote the those Who wrote the best all-round essays
Mrs. Duncan's, we think. shows especially keen appreciation of the poem. far as the picture is concerned, We doubt if anyone except the paint
er himself can tell with cortainty "which is which." With certainty Jephthah's daughter are of course $\qquad$


Dream of Fair Women
$\qquad$ Dream of Fair Women.Cleopatra: Jephthah's daughter :and at sea, alternating between
the stormiest to 7 , as Helen, duringthan any of the morepatra: 4, we thought.
 the poison "with heo balm, riterth Morning came, and his und happiness the forgets her wrosengs at the appearance vision vanished away, much, the poet daumh, Joan oi Are, Jephthah's been made ready to embark for Troy tells us to his regret
strike into ine would
that
track again, but that track of dreams






<br> -

Who does not thriil as he reads the This man has ived dlose to natures's
heart; they know one another heart, they know one anot her
Xous realize something of the fass nation of Clowatras syes , when
 sound," and something, too, of her her
silencidid audacily when she calls for
$\qquad$
$\qquad$
$\qquad$
$\qquad$
How vivialy do we live orver again
he scene of I Irikeeniaise duath The hivh masts nichereed as they lay The the shore bitimet death quivered at the
$\qquad$ hieauty and Anguish walking

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

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\begin{aligned}
& \text { PRTYE ESSAX } \\
& \text { Guardiny the ontranos }
\end{aligned}
$$

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\begin{aligned}
& \text { Guarding the entrance to the for- } \\
& \text { sst, whither the captain of the poet's }
\end{aligned}
$$

$$
\begin{aligned}
& \text { dreams had led him, is Helen of } \\
& \text { (reece and Troy. She is the fifth figure } \\
& \text { in the onaintine. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Breece and Troy. She is the fifth figure } \\
& \text { in the painting, dressed in Grecian } \\
& \text { costume. Her beauty of face and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { costume. Hainting, Hressed in beauty of face and } \\
& \text { corm betoken her as Helen, a the } \\
& \text { form the }
\end{aligned}
$$

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\begin{aligned}
& \text { form betoker her as Helen, Hace and } \\
& \text { fairest lady of immortal line," the } \\
& \text { fade }
\end{aligned}
$$

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\begin{aligned}
& \text { lairest lady of immortal line, ' the } \\
& \text { one who has exercised such a wonder- } \\
& \text { ful influence over Grecian history. }
\end{aligned}
$$

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\begin{aligned}
& \text { ful influence oxercised such a wonder- } \\
& \text { fiterature and art. } \\
& \text { litecian history, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { literature and art. } \\
& \text { Paris, heir to the Trojan throne, }
\end{aligned}
$$

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\begin{aligned}
& \text { Paris, heir to the Trojan throne, } \\
& \text { visited the court of Helen, who had } \\
& \text { weddod }
\end{aligned}
$$

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\begin{aligned}
& \text { wedded Menelaust, Helen, who had } \\
& \text { Becoming of Sparta. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { weaded Menelaus, King of Sparta. } \\
& \text { 1ecoming entranced with her loveli- } \\
& \text { ness, he carried her a willing captive }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ness, he carried her a willing captive } \\
& \text { to Troy, thus occasioning the ten } \\
& \text { vears' sions oct }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to Troy, thus occasioning the ten } \\
& \text { years' siege of Troy by the combined } \\
& \text { Grecian forces. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { (arecian forces. At leng combined } \\
& \text { rested on victory } \\
& \text { recian arms, and Helen, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { rested on Grecian arms, and victory Helen, } \\
& \text { reconciled to Menelaus, occupied her }
\end{aligned}
$$

$$
\begin{aligned}
& \text { reconciled to Menelaus, occupied her } \\
& \text { former position. But the hearts of } \\
& \text { the people hurned }
\end{aligned}
$$

$$
\begin{aligned}
& \text { former position. But the hearts of } \\
& \text { the people burned against her, for the } \\
& \text { ruin of a western world was due }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the people burned against her, for the } \\
& \text { ruin of a western world was due to } \\
& \text { her beauty and faithlessness }
\end{aligned}
$$

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\begin{aligned}
& \text { her beauty and faithlessness, and the } \\
& \text { punishment by banishment, meted out }
\end{aligned}
$$

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\begin{aligned}
& \text { punishment by banishment, meted out } \\
& \text { o her, seems but just. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to her, seems but just } \\
& \text { Standing beside the } \\
& \text { of Helen is Iphipenia }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Standing beside the crouching form } \\
& \text { of Helen is Iphigenia, who, with } \\
& \text { scornful looks averse., }
\end{aligned}
$$

$$
\begin{aligned}
& \text { of Helen is Iphigenia, who, "with } \\
& \text { scornful looks averse,", accuses Helen } \\
& \text { of being the cause of has }
\end{aligned}
$$

## News of the Day

## Comatam


 mome
 2. nemen man
 2asen min

2man minn winn
$\qquad$

British and Foreign


The
the founder of Zion Cie, Elijah JI has come to an ignominious Chicago all, having been deposed as nember of the church which he founded.

A despatch from London from the sritain is Press, say Son from the colonies another les has been placed on the order ition of the House of Cormmons, pape ing of the colonies, and asking the law in the prove the principle."

The work of the Conference at of January last, came to the 16th March 31 st. ${ }^{\text {My }}$, came to an end on wroto was embodied in a formal the Moroccan ports, incluce four ${ }^{*}$ of Nor: Spain two ; and France MogaSpain, jointly, will police Tangier sprector of Police, subject to an Inject of Germany, in seeking ory oblain a footing on the Mediterranean and Fio loosen the tie between France a decided check, and her , received to ligure on the chess-board move Europe will be awaited with inter-

A little Topeka girl came home from
hurch the other day, and was asked church the other day, and was asked
"hat the minister's text was. .. I know
it all right," she asserted . Well " Ion't be afraid, questioner demanded.
hed quilt," was and I will get you a
Investigation was the astonishing answer.
proved that the central thought of the sroved that the central
not, and I will

With the Flowers.

## Re Single Dahlias.

New Subscriber," York Ont., kindly writes us as fork
" I
notice about Dahlia and Canna seeds. It have not had any experience with
Canna seeds, but I will tell you Canna seeds, but I will tell you of
my single Dahlias, which were grown The seed was sown in a cold frame and in a few days the plants began to show. When well-developed plants with four or five leaves, I trans-
planted into good rich earth, hoed them three or four times each week. The rabbits ate off ten, but the re maining twenty gave me twelve different shades by 1st September. The
first bloom appeared August 24th.
I had I had a beautiful collection of colors of the most delicate markings, from
the most intense velvety crimson the most intense velvety crimson yellow. Try Dahlias from seed.,
The Massing of Flowers.
wandered lonely as a cloud
That floats on high o'er vales and hills,
Wheul all at once I saw a crowd,
A host of Ahen host of once I s.aw a crowd
Besiden daflodils
Be lake, benrath the tre Continuous as the stars that shine And twinkle on the milky. wat,
ahy stretch'd in never-ending tine Along the margin of of a bay line
Teu thousand saiv I at a clance, Tossing their heads in surightly dance The waves beside them danced; but
they they
Outdid the sparkling waves in gle A poet could not but be pay I gazed-and joculd compan brought :
For oft, when on my couch I
in vacant or in pensincher They flash upon that inward eye Which is the blis of solitute
And then my heart with pleas ar And then my heart with ple is
And dances with the dafiodils

True, it was the poct who wrote the man who could not andso of the man who could not understand the meaning of the solitary flower
filling its own litule piace in the world by the river-brink :
$\qquad$ A yellow primrose was to hiver's hrim And it was nothing more." And yet we can but think that the solitary blossom, and feel ouer beauty and its mission-and more than this, for Wordsworth had some strange ideas in regard to nature-

The Massing of Flowers
 With the buovancy expressed in this sand:. Which he sark at a glance sand which he saw at a glance,
"tossing their heads in sprightly dance... A mass of flowers, especially the height of their beauty, alway suggest a fulness of bife, a lacking in nothing, a sense of freedom, and nothing, a sense of freedom, an
light, and absorbing of the sunt
Hence it Hence it is, in part, at least, that the ordinary garden, $\stackrel{t}{t}$ tew Zinnias there, etc.-seldom and
peals tom

blaze of Golden-rod on a hillsid a clump of wild Asters at the edp or liloodroot deep in the wood. Trillium difference in environment, of cours has something to do with the deepper enjoyment of the latter, and yet
few experiments with massing lew experiments with massing thow
ers in the garden will convince that there is something of the sam satisfaction to be gained by ing. Indeed, we seldom make a mis
take in following nature clost A glance at the accompanyin Lustration my serve to emphasize the point. The flowers in the foreground
are moss pinks, thousands pink, purple and white, on a thit rising ground at the edge of a lawn The higher, drooping ones in the back
ground are Wistaria blossoms, alse in thousands, depending from vines
that have overrun a mass of shrut-
bery which it was to no interest to bery which it was to no interest
preserve. It will be seen that t, wild, careless, nature following this, much, more effective than more formal, or a less-skilfully
planned. more heterogeneons Imagine the same plot, for instan. with a dozen different kinds and col ors of flowers over it, and you will understand the implication. In just tively, might appear Trumpret effecCirape, Clematis, Alleghany Vine, etc.. as a background, with any lowgrowing flower that covers well be-
low-Forget-monot, ('rocus. Cress, etct-, each appearing in its seat
Conder Even in more formal gardening, however. massing will be found effec
tive. Montbretia, summer Hyacint -a score of such plants present but sorry sight when growing singls but plant fifty or one hundred
them side by side, and see the differ ence side by side, and see the differ
ence. Try the same plan of plant ing in "patches," with other things Instead of jumbling your Colum
hines, Sweet Williams hines, Sweet Williams, Foxgloves
INelphiniums, ett., all together,
single specimen of each orn single specimen of each, group them
Sweet Williams, measured by vards
incer instead of hy the square foo
revelation: and so it

## The Quiet Hour

Sunrise.


APRIL 12,1906


THE FARMER'S ADVOCATE.


Death Conquered by Life.
$\qquad$

Aln around is desolation
And each cold association:
For atoout us reigns the darhness,
let to be the dawn of gladness.

Sow with clouds and shatows reiyning Meadow, dale and all things bliphtimg
Outbursts of rain and falls of snow, And foral life no longer glow; I:ut to ! with sunshine and the rain,
We see the glow of life arain-
The voice of spring sounds in our ea And Nature buds and blossoms lears.
$\qquad$
$\qquad$
$\qquad$


Laurentian STOVES AND RANGES Are sooend to None in Canada. Be sure you buy the best. If your dealer is not handling our lines, write direot to us for our catalogue containing cuts, descriptions
and prices of our goods. It will surprise you. Forty styles and sizes of ranges, stoves and

The Gould Manuf'g Co., Ltd. Smith's Falls, Ont.


## Desires Determine Destiny

IN ALBERTA, THE LAND OF OPPORTUNITY
The selection of a location is important. Southerm Alberta High River is theekers' Land, and the center of the fall-wheat belt Why not own a farm there?
J. Z. VENNE \& CO., HIGH RIVER, ALBERTA

## PROGRESSIVE FARMERS

all the country over read "The Farmer's


APRIL 12, 1006
THE FARMER
ADVOCATE.


$\underset{\text { Bird-hunting Without a Gun. }}{\text { Bon }}$

He is Not Here! He is Risen!

|  |  |  |  |  |  |  |
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## Grandma's Easter Angel.

Cousin Dorothy's Letter-box.

 fortunte as some of my cousins, as I I do
not get to school in the winter. I I expect
to start the first of the
 getting along very well.
wIEETTA L. B. HI NTER (age 10). I will try to write you a letter. hive never writen one before, so 1 hard-
y know how ot oegin it Ihave read
your stories in The Farmer s Adio-



Recipes.

CUT YOUR STRAW WHEN YOU THRESH

THE STEWART STRAW CUTTER MFG. CO.
Room 19 Aberdeen Chambers, TORONTO. W. E. ROTHWELL, Manager.

## FIRE SALE

We find ourselves crowded up with instruments taken in exchang or the celebrated Nordheimer Pianos. We want the room OUT at the following prices

## Square Pianos.

Glen \& Co., 6 octaves
Gilbert, 6 octaves
stoddart, 6 octaves 25 Nitschke, $7 \frac{1}{3}$ octaves 25
Hardman, $7 \frac{1}{3}$ octaves 100
Haines Bros. 100
125
150
Heintzman \& Co., $7 \frac{1}{3}$ octaves Chickering $7^{\frac{1}{3}}$ octaves 175

## Organs.

Thomas, 5 octaves, 9 stops - $\$ 25$ Dohenty, 5 octaves, 10 stops Karn, 5 octaves, 9 stops Dominion, 5 octaves, 9 stops Dominion, 5 octaves, 10 stops Bell, 5 octaves, 7 stops Dohenty, 6 octaves, 10 stops Karn, 6 octaves, 10 stops
mena TERMS-Under $\$ 100, \$ 5$ cash and $\$ 4$ per month ; over $\$ 100, \$ 10$
cash and $\$ 7$ per month. Freitht prepaid to all pointe within 100 miles of London. Correspondence solicited. All above have been repaired at our factory, and are fully

## NORDHEIMER'S

LIMITED,
188 Dundas St., London.


## 100,000 ACRES auta FARMING LAND

> grain can be grown equally as well. Prices: Unimproved land, $\$ \mathbf{8}$ to tallments. Improved farms, $\$ 10$ to $\$ 20$ per equal annual inlerms. Prices will advance this spring sure. You had better secure a

THE GERMAN AMERICA
Box se3. 118 gican COLONIZATION CO., LIMITED Box ses. 118 日th Avonue Wost, Calgary, Alta.
STEImbRECKER. President.
W. J. FERGuson, Manager.

Pure Blood Source of Health and the rlood can only be,
purified by the healthry purified by the healthry
action of the liver and

DR. CHASE'S KIDNEY-LIVER PILLS


 life-living on artlicentiloods and being
shut up in bady-ced rooms-the
jiver liver and kidneys become clogged and
sluggish in action, the bowels constipated, and the
qus impurities. qus impurities.
Is it any wonder that spring finds us
run down in health, and feeling languid
dont and run down in health, and feeling languid
and fatigued? Is it any wonder that
our systems berome an easy prey th our systems berome an easy prey th th
every form of disease unich lurks in the
spring air? Is it any wonder that we spring air? Is it any wonder that we
have aching heads and aching biacks and
suffier from indigestion and biliousness? suffier from indigestion and biliousness?
Dr. Chase's Kid ley-Liver Pills are Dr. Chase's Kid iey - Liver PiAls are
specially suitable as a spring medicine.
theraus. act directly on the liver and hidneys and elliiven on the action live
these great blood-filtering or organs. these great blood-filtering organs.
Except by the action of the liver an
kididmas, there is no means by which ti kidmess, there is no means by which the
poisonous impurities can be remoovei
from the blood. with these organs in
health, a person is almost immuwe from the blood. With these organs in
health, a person is almost immune from
colds and all forms of contapious dis$\substack{\text { cose } \\ \text { not } \\ \text { der }}$ not be confused with medicines which
merely act on the bowels. They do
effect prompt motion of the bowels, and
they do infinitely they do infinitely more, for by sett in, the
liver raght they bring liver right they bring about a good flow
of bile and thoroughly cure constipation Biliousness, liver complaint, constipa-
 is a great satisfaction in using a merd cine which has stood the test of time
and proven its right to a plice in every home as a family medicine of worth an
reliability.
Put Dr. Chase's Kidney-Liver Pills to Put Dr. Chase's Kidney-Liver Pills to
the test, and you will avoid the usual ills and weaknesses of sp ing. One pill April Weather


## About the House.

## Food Values-No. I.





 steel seat spininx-and pressel stect


B. .EEL \& son, LLmmota, St George, ont.


Benson \& Houlton, Calgary, Alta.
Grand Trunk Railway System SINGLE FARE FOR EASTER
Going April 12, 13, 14, 15 and 16 Returning until April 17
 Reduced rates also in effect to St . Pa and Duluth, Minn.


## 00 THESE IWTEREST <br> YOU <br> Good Soll <br> Good Crops Good Water Good Climate Good Pasture Good Health <br> BOARD OF TRADE

Edmonton, Alberta,

WALL PAPER


FARMERS, ADVOCATE "Want and



ndles.-Apply turpen


A Budget from the Chatterers.
Soap-Doughnuts.

A
R

From "A Young Housekeeper
ite Furs
Answer to Lizzie.
$\qquad$ Chamed. Shake the fur until a all the
, haster-which is ground fine, like flourane. Corn cloth, and it will look

Another Now Member.


 counted. Cash must always accompany the the
ordar for any dvertisement under this heoding.
Parties having bood purebred poultry and egsi Parties having god pure-bred poultry and eqgur
for bale will nid plenty of costomers by uning our



 $\mathrm{A}^{\text {A }}$ SAP- EEggs from s. C. White Leghornt the enatlings \$ne one hen hundred, \$4. Geo. A.
Easton, Jr., Whitney, Ont.



 | Dods, Alton, ont. |
| :--- |
| C $\begin{array}{l}\text { HIICE Barred Plymouth Rock eggs fro } \\ \text { hens selected }\end{array}$ |

 "National strain.". Price. \&1 per 13. or three
settings for 82. .
w. C. Shearer. Bright, Ont.
 XTRA choice pure Barred Rock egge for sale Werden, Aneedia Farm, Bethel, Ont.
 K wingers. White and Golden Wyandotte Single-comb: White and Brown Leghorns:
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 $\mathrm{F}^{\text {GGS }}$ FOR ${ }^{\text {HATCHING - Pure-bred }}$ stock
 $\mathrm{E}_{\text {ho }}^{\text {GOA for hatching: Single-oomb White Leg. }}$ 15 egge. George Lewis, Ballymote.



 WOR SALE-White Wyandote oockerele
 WiFTY good Buff Orpington pullets for sale
AYERS, great payers, prizewinners, won from Barred and White Rocks. White and Silver-
faced What Black Jyvas and Buff Orpingtons. Black Orping
Biack
lons and ons and Blue Andalpsians, \$2 per setting,
F. W. Krouse, Guelph.
 manufacture best brooder on market.. Circularss,
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 per setting. Wm. A. Rife. Hespeler, Ont.
R HODE ISLAND REDS (rose comb). Bred $\mathrm{R}_{\text {eavy }}$ se winter layers Large brown eggs. Good natch guaranteed Fifteen eggs one dollar half
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hustler. Write for partioulars.



 Eeoh initial counts for one word and flyires for
Wo words. Names and adaresees are ountod


 For sale-seed peas (Com
 corn. John Mililiten, Apringbank, Midalesex.
Her partioulars of Nanton farm lande, writ
Loree \& Oampbolli, Nan ton, Alth.


 Ings. Aood waitor, plonty of woon, wood ithin thile
 Cory tenan.
$\mathrm{F}^{\mathrm{ARM}}$ Mannger wanted-A worlcing foreman


 G ATETATOMH. With adjustable keeper
 MPROVED farme for salo in the Rdmonto MPORTED, eoed oats. Gartand, Champion
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 $\mathrm{W}^{\text {ANTED.- }}$ Grituations Great housekeeners from
 $\$ 3$ PERR DAY selling the "Auto-spray". Best a. achine tromatic hand sprayer made Sample
alt.

At the sale of Shorthorns, on April
th, at the Rosevale Farm, of Wp. Shean \& Co., Owen Sound, Ont., which
was well attended, the cows averaged and each. The heifers were a nice lot. Th toe young for this season's service except Missie Marquis, which sold for
$\$ 105$. The stock bull. Derhy (imp.) is保 retained on Rosevale Stock Farm. \$307 each. mares made an average


Formal Opening on Wednesday Afternoon, April 25, by H. R. H. Prince Arthur of Connaught

TWELTH HORADAN HOS SHOW
Tomonto Ammouries, Wed., Thur., Fri., Sat, Apl 25, 26, 27, 28 $\$ 8,000$ in prizes. Every class well filled
Those living out of Toronto can secure reserved seats by writing the Manager, Stewart
Houston, Massey Hall, Toronto. Prices: Evening- $\$ 1, \$ 1.50,50 \mathrm{c}$. Heaston, Massey Hall, Toronto. Prices: Evening- $\$ 1, \$ 1.50,50 \mathrm{c}$.; Afternoon- $\$ 1,50 \mathrm{c}$. going April 25. At fare and a third, good going April 26,27 and 28 . All tickets good
to return to return up to Monäày, April 30

## Great Dispersion Sale <br> I lllter


WEDNESDAY, MAY 2ND, 1906 ,



A. HAGAR, Belleview Stock Farm, PLANTAGENET, ONT. MR. GEO. JACKSON, Anctioneer.


Something to Crow About THE HAMILTON $\mathrm{W}^{\mathrm{E}}$ Emonider Mider Mro mantuaturing




 The Hamilton Incubator Co, hamiltonne canada.


| Trade topic. | cossip. |
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| rative plan of buying, which has | At W. . . Grands |
| Uen such a greent succers in the Oid | iners). it the Amorrices num |
| dit, is working out s.titisfatorily in | Xeu York, m |
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he held in Toronto on April 25 th, 26 th, by Wilkeswood. The highest-priced fire-
27 male and 28 th. It will be orened by the show cow, Lady Albany
H. R. H. I'rince Althur of Connaught, Farm Co., Spencer, Ind, at $\$ 500$.
whose presence on the first




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appeals to all who want a fence that is extra strong，permanent，hand
some and economical． P1
$\frac{7}{4}+40 \rightarrow+$
In the SAMSON aire of the highest grade
wiral coiled
the stays are No 7 grade．Th
springy and heal－hard springy and hea vily galvanized
The Samson Lock speaks itself；it holds all the speaks for
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securely，and is many times securely，and is many times stronger
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duced．

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\begin{gathered}
\text { Write } \\
\text { yourself. }
\end{gathered}
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yourself
the lateral wire．Lock does not kink
Locked Wire Fence Co， LONDON，ONT．

## SHIRE STALLION

## 4

HE WABASH STOCK FARM，
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OIRエDIE ERTE SHORTHORN CATTLE ind 40 Rosistored shropshire
sHEEP．nearly all breeding ewes
ber MONDAY，APRIL 16th， at Lot 5 E，Con． 2 （Flos old survey）． 5 miles
east of Pholpston station ，on the
 Wet on the 12．30 train from the south，if notitied
Orders by mil honestly dealt with and shiped
Oree of
 ROWAT BROS．，Hillsdale P．O． HOLSTEIN BULL $\begin{gathered}\text { Inka Johanna，gravason } \\ \text { of Sarcastic Lad，for sale }\end{gathered}$
 1 Equan poutry catiotrico KIDNEY PILLS
N KIDNEY

APRIL 12, 1906
QUESTIONS AND ANSWERS Miscellaneous.
measuring rapters

sale of bull.
 in existence. Price, 11 l.

Early Six Weeks-P Sir Walter Raleigh - Main crop, very productive, white flesh and skin, of uniform large size, smooth, with few JOHN A. BRUCE \& CO., The pionear sepd House of HAMILTON, ONT.

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handsomer in appearance and more uniform in size any other variety. Its table quality is superb, and it keeps longer than any other sort, early or late. It is the best all-round potato
in existence. Price, 1 1b., 25 c .; 51 lbs ., $\$ 1.00$, postpaid. By freight,
 Aroostook county, Maine, which is famous for its potatoes. It is as second early, pure white variety, oblong in shape, and exceedingly fine appearance and splendid quaiity. Yny variety of equal earliness.,
wonderfully productive, easily beating and
11 b .20 c .; 5 lbs .15 c .; postpaid. By freight, peck, 60 c .; $\frac{1}{2}$ bush., Early Six Weeks-Popular first eariy, of fine quality, mooth, flesh pure white, and best quality.
The Bovee An exiria early, wonderfully productive variety, growth and superior quality. Our stock is very fine. Bruce's White Beauty - This excellent potato still retains the position it has occupied since we introduced it $\mathbf{1 4}$ ars ago, on account of its attractive appearance and the excellence of its table qualities. It resembles the Beauty of Hebron,
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machine made in the world right here ato homen wion the
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## Sheep-shearing Machines.


becomes an of shepp-shearing machines
bimportant one to the sheep owner. There artant one to the sheep lean it back, stand astride, heep machines manufactured, and only a rea- ket its back in raintow shape is Try sonable amount of intelligence is neces- Take a'out three swathes up the bac sary to select one which will actually do Now you should have trimmed top
the work. While there are the work. While there are many of the old hand-power machines laid aside, 1 ones are being manufactured which will up straight, holding its left side tiphty
do the work satisfactorily, and with ,e against
 soon be at hand when all shearing uil side. Begin at underside of right side,
be done by machines, and recent im- neck, run swathes down to showd provements have brought this time much working back on top of the neck.
Then let sheep's neek drop against 1 ,
nearer to realization than is generally known.
At the big sheep centers, hand shars are a thing of the past, being replace
by the shearing machine. Small breed ers and feeders, howeiver, seem to be beg, lhen lift up sheep's head, puit your left
predjudiced against the machin", and leg let tevn sheep,'s legn, hold sheep up pin their faith to the old method. They
frankly st.te that they can do mure and
better work with the with the new wapliance. This is con-
with the the
trary to the experience of those who
know how to use the shearing machine. know how 10 use the shearing machine
The following pointers on the subieit
handling the machine are given by Marquis, the champeon sheop shearer, in
a reont issue of the Inakota Farmer: youace the sheep in a position so that
you stum about a foot to the left of
the long tule and alout a foot in front
of it ther down at your right side, a little behing you. Always turn sheep to the righ

GOSSIP.

## skin stretched tight on the part you are

 Assuming that all is in readiness for your, left hand, toss it eisily on its side, place it in an upright position, hold at furward end of the brisket, anclipper doun
$\qquad$


Clydestales 通 Fronch Coachors, Imp

ROBT. NESS \& $\begin{aligned} & \text { horses } \\ & \text { Lonk-distance Telephone }\end{aligned}$
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| QUESTIONS AND ANSWERS. Veterinary. <br> fuberculosis. <br> St frequently; has difficulty in <br>  <br> Ans-sine <br> s her milk tit for use $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ danger disease of ot $\qquad$ BRONCHOCELE |
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AIs. -These lumps are suisscraber.

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Come very large. They can be reduced
to tho normal size by the daily applica-
tion, with smart friction, of an ointment
cruposed of 2 drams each iodine
ouncess vaseline. The sniffling is cause
the nostrius to the mutcous membrane of has a cold. With
the
Cunnot be corrected.


Hes, Mercurial ointwent, tincture of
iotinne, corrosive sulbinunte, inixed with

1s I Noticed the ringbone. mitering as so
2. Was oxeresisg thrie year-old filly
2.
he line ahout








Miscellaneous


2. Which is hetter for a young calif.



probably tuberculosis.
con

Horse Owners! Uee

вuinus a shippard, propen
 Auction Sales of
 Special gales of Thoroumbred stook oonaucted Consignments siliditiod. Corroerpondence
will reoeive prompt atjontion. Thin is the best market in Canade for et herer
buyer or eoller. Nearly two hundred hortise
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gomething that will suit you something that will suit you.
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2
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Ans.-1. A horse should have rest until
the scale has fallen ofr and the new hair
has well started to grow, after having has well started to grow, after having
been blistered; but if the blister has not
been applied over a joint, it would not been applied over a joint, it would no
injure him to work.
2. This is due either to a congenita
wean weakness of the part or to overwork
Treatment consists in iving rest and ap
plying a blister all around the joints
once every month until the symptom once every month until the symptom
disappear. The blister to be used and
details for application are frequentla given in these columns.
3. Yes, give the milk from a freshly-
calved cow. (iive it warm. and dilute calved cow. (iiie it warm, and dilute
with $\ddagger$ of its bulk of warm water. Give in small quantities, and often, out of a
botule with a rubber nipple.

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this country forms the very best recom-
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reputation
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and dams. Correspondenco
invited and dams. Correspondence
invibed. DEYIS e sons,
GEO. GEO. DEYIS \& SONS,
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Till Dodd's Kidney Pills Cured His Kidneys.
Than His Rheumatiom and Othor Patme
Yan Barwick Only One of ma
natismotich or any other dicease resultinrom disordered Kidneys, is the experience River co of the settlers in this Rainy
The case of William
John John Dixon, of this place, is a fair
sample of the work the great Canadian
Kidney lemedy ion . I had Rheumatism, so bad I had $t$ ase a stick to walk. I had pains in my
back and right hip, and I had no com fort in sleeping. dress myself for meare than dress or un-
was for mo months, an I was for nearly three weeks I could not
lace my right shoe. ". My brother advis did me to try Dodd's
Kidney Pills, and I did so Ing thme boxrs I could walk Around and lace up my shoes and d, my work.' Six
boxes cu'ed me completely." boxes cu'ed me completely."'
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An exoellent lot of shorthorn bulle and thrains. Have a few Leiloestern left yet. BarA.
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UTOMNTIO mind has no control NEREES over which your
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april 12, 1906 THE FARMER'S ADVOCATE


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 In extran nice Jersey Bull, fintor tor Alse F. s. Wetrierookhire, oue.

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 Bull calves, 4 months and under only
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GEO. RICE, Tillsonbuigg, Ont. WOODBINE HOLSTIEINS Herd headed by Sir Mechthild Posch, abso
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Many Women Suffer UNTOLD AGONY FROM KIDNEY TROUBLE.

Very often they think it in frome co-aniled

- Female Dineemean Than they think. Woment nuffir from beclinole.
 and they do not have "fomelo trouble", Why, then, blame all your trouble to Femalo Ditoeet
With hoolthy vidnoyn, fort women aill With hoalthy hidneyn, Row women will orw eloely comneoted with an the internal orgats.
that when the lidinoye so wron. ovorythin that when the lidnoyn so wronk, overything
goes wrong. Muoh diftree would bo meved if


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at metaed intervale.
Prioo 50 centa per box or throe bosces for 81.103 ,
 RIVERSIDB HOLSTEINS Man
 Ohampion prise bull at worla's Yair
 Buy a Holstein Bull
 -aw. oltmone or, atonall owr Holstems and chesten wites.

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AYRSHPRES
The famous Riford Herd at SL Anne de Str williame. c. now acelonadd. Several yearling bulls for sale;
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W. Oweme monte Bello, Quie. RThivarodid Farmi AYRSHIRE BULLS FOR SALE

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WEDNESDAY, AUG. 8th, 1906



 Comminielons areacerum sume the worla. STRIDE \& SON, Auctioneers,
Sussex, Eng,
Onicheeter,
Kent or Romney Marsh
ANNUAL RAM SALE.

FRIDAY, SEPT. 28, 1906 at Ashford, Kent, England.
w. CHAPMAN,

Sowbr

THE FARMER'S ADVOCATE

CURED HIIS WIFE of LA GRIPPE

Quebec Man tells how the Great Con sumptive Preventative was an all-round Beneffit
"My wife took La Grippe when she wa Ottawa," says R. N. Dafoo of Northfield bottle of Psychine and after using it for a days she was quite wer think Psychine is one of the best tonicg "n the market to-day.
There you have the whole matter in a f he forerunners of consumption. This man had one, his wife had the other
psychine not only cured both but it heil hem up so that their bodies are stron enough to resist disease. All seeds of

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& \text { OOTE }
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Seed Grains and Dorse Horm.
seed Grains and Dorset Horn Rams

APRIL 12,1906
QUESTIONS AND ANSWERS Miscellaneous
dominion ministers of agriculture Please
minion $\begin{aligned} & \text { publish the names of the Do } \\ & \text { Ministers of } \\ & \text { Agriculture since }\end{aligned}$ contederation.
Ans.-Hon. J. C. Chapais, P. C., M. . Trom






 1885, to December t th, $1892 ;$ Hon. A
R. Angers, December 5 th, $1892 ;$,


 Hon. S. A. Fisher, the present Minister,
worn in on July 13 th, 1896 . A reader asks: Rocks. Rocke derived trom, are they a the Benarf
totility
breed, and where con of them ?
Ans. -The Rurf Rocks have practically
the same qualities us the Barred
Whito call them a fairly-hardy, general-purpose brown-egg breed. They are medium in
size, the cock, bird woighing ning halt pounds, and weighing nine and a pounds; hens, seven and a half, and
putiets, six and a half pounds. They are one of the best general-purpose
breoeds that we have. The Buf varis
Then are not grown to as great an extent
the Whites and Barced
 Plymouth Rocks would be considered
good sitters and
good motherd

 sure that anybody kous exactly ho
they hame about. There was, undoubted
ty, some Barred Rock
 State of hrode from the chickens in in the the
formation at hand
I have no Iormation at hand at the present time
that I would care to say is absolutuly
 bread. The the exact origin of the the very much the same
characteristics as the Barred only are not nearly so popular. In the
East here, the Buff Orpingtons seem to then be supplanting the Buff Rocks. Buff Roc
breeders should advertise. Whold advertise. R. GRAHA We have OR COUCH GRASS terrun with twitch grass, to sucres bad ex.
tent as to interfere with growing crops
soil is co Soil is clay loam, in good heart. Have
been fighting this weed for tops summer-fallowing, wut the tee yeed years by
ing gain
ing tound, especially in a like 1905. Could any reader of "T Th.
Farmer's Advocate," perience with this who has had ex-
mead, give their
method Would seeding with lucerne
tend to choke it out? Field was plowed
ast fall. Ans.-We think that if you had sum-
ner-fallowed
faithfully with cultivator he plow, you would have conqucred th
vitch or couch grass. ait known. We fear that lucerne. whec recoumended is toctual. The plaw lighty righ
after harvest, then phawrew

RME
ADVOCATE


Let them follow my advice for three months and I worll make them as vigorous in every reapect as any ont age
and sturdy. Even that person a Hercules out of a person who was never Intended by nature to be atron 1 can make as good as they ever were. he went to who is nervous, whose brain and body are weak, who sleeps badly, a wakes more tired than when
and energy to tackle hasd discouraged, licllned to brood over lmaginary troubles, who has lost aymbition




Letters llke that tell a story which means a great deal to a sufferer. They ar.
son who has become discouraged from means a great deal to a aufferer. They are a beacon ilght to the per-
My Belt has a wonderful influence upon tired, weak. I get such leters every day. up a great force of energy. influence upon tired, weak nerves. It braces and invigorates them; and atlrs I know my trade. My cures after everything else has falled are my best arguments. years in perfocting it. the shoulders, chest and with pains in the back, a dull ache in the muscles or joints, "come and go" pains in the shoulders, chest and side, Sclatica in the hip, Lumbago, Rheumatism or any ache or pand go" pains in
will pour the oll of life into the aching body and drive out every sign of pain. No pain cand extist wnyere my my
Belt is worn.
 They come every day, from everywhere. There is not a town or hamlet in the country which has not
ures by Dr. McLaughlin's Electric Belt. The conildence I have in rry remedy enables me to maike the offer I do, and any man who will glve
me reasonable security while he uses my melt need not pay a cent until he is cured.
Now, what. does this mean to youl dear reader lo any better proor to make you try it?, If there is a remedy which is as simple, as easy be, can you ask cure, and as cheap as Dr. McLaugh lin's Electric Belt, I have not seen one. You must try it inse, as sure to
yourself and to those who look to you for their future happiness, try it now. Act the to er ought not to be delayed. It's as good for women as for men. Worn while you sleep, it causes no trouble. You feel the gentle,
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LARGE ENGLISH YORKSHIRES

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## Yorkshires

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Q.P.R. and G.T.R. Woodetook, Ont. REVER VIEGYFARM


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HILLCREST HERD OF ENGLISH BERKSHIRES


## QUESTIONS AND ANSWERS.

 Miscellaneous.OWNERSHIP OF MISS BAKER Can you give me the address of the
riresent owner of the Hackney mare, Miss
Baker, imported by Sener Cor Baker, imported by Senator Cochrane?
Ans.-The last owners of which we find
record were D. \& O. Sorby, Guelph, Ont.

## worms in barn timber

trouble with crean We have been having trouble with of
butter lately. ${ }^{\text {The }}$ cream seems

The Bad Gold of To-Day
MAY BE PNEUMONIA TO-MORROW.




## DR. WOODS NORWAY PINE SYRUP

oontaing all tho lung-bealing virturese of the plane
cree, and is a mure oure for Counhs. Colde al Thrat or Lung croublea, Mrat. E. Huthir on, 188 Argyle Streot, Toronto, writes: "I haro been a sufferer from Chronio Bronncititio fom vearr and have found Dr. Wood's Norway Pimo
Syrup far better than any of the bundreds remedies I have used. Our wholo family um in in caraes of Cougha or Cold. Wo mould noo
bo without it." bo without it."
Don't bo humbuaged into taking momething
-uat no good," aut for Dr. Woods no meting it, Put up in yellow wrappor, turme LARBE ENBLISA YORREMIRE

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also a fer foll pigs for sale. Pairs fur
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both breeds. Bred
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