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# Che <br> <br> Farmer's Solvocate 

 <br> <br> Farmer's Solvocate} and Fome Mragazine

The progress of seeding operations, which wil
coon be in season, depends so much upon being prepared and ready to push the work just as soon
as the land is in fit condition, it may be in orde (1) remind the more easy-going of the importanc the scarcity of suitable help on the farm. Earl sowing, it is conceded, generally ensures the heav-
just yields of grain and the surest catch of grass sweds, and if the land is in workable condition at all, especially in the case of clay soil, the seed
hed is more easily prepared when slightly moist than later, when it may become too dry, and 10 reduce to a fine tilth. In order to be pre when seeding commences, it is important that th seed be provided, cleaned and measured in ad be all in the best condition to do their work rell, and do a good share of it every suitable

The gospel of good seed has been so per kistently preached through these columns, and
he soundness of the doctrine so well demonstratad in various and repeated experiments, there hould be a general observance of greater care i sound, plump seed only being sown. To this unf, it will be well to take time by the forelock, and be ready with well-cleaned seed before the come for seeding arrives. The series of articles farm department of this issue may, it is hoped, prove helpful in the way of hints to some who twe undecidect as to the best varieties to sow, and he best methods of cultivation, but at the same time it is scarcely necessary to relmind experience farmers that much depends upon the character of he soli, the climatic conditions of the district and other circumstances, and that judgment mus arictics as a res had better be tried firs
$\qquad$
$\qquad$ Cirrilizer, as well as one of the best of stoek ans, has been so fully proven it is of the utuly as part of a regular ssstem of rotation of Wes , we wherwer there is a fair prospect of a - the dirst season of its growth, as the pasturage
will aftorn after the harvest of the grain crop, "is torn inzing value o to the suceecoing crop,
> " generrally more than compensate for ite cost
It gowes without saying that grat care should

> Whs, that only sound, tested seed, free from thy is of noxious weeds be sown, for these robbers
$\qquad$
cautions may result in a disabled horse and seri-
ous delay of the work. Care should be observed hat the collars fit comfortably, and that the Iraft comes equally on the shoulders, and hot unduly on the point of the shoulder or the top of the neck. Then, in warin weather, causing
nuch sweating, a short rest should be given ocasionally, the collars being pulled up from the houlders to allow them to cool ; the shoulders hould be washed every evening with salt water and-scraped, or brushed clean. Sweat pads are now on sale which may be used to advantage to prevent chafing of the shoulders, and for all they cost, it may be a good investiment to secure and ase these, since so much depends upon the teams

In the Extre Lies the Profit.
The aphorism that stands as the caption of Chis article embodies a princtple which has long which to the farmer has been somewhat obscured by the fact that he is usually his own manager, his own laborer, and oftimes his own rent collector and tenant, hence a larger proportion of his sales receipts is straight income than in the case of the ordinary city business man. Add to this that he seldom keeps books, and also that his business and living are not divorced, as with the financiers of other industries, and it is not surprising that his ideas of profit are sometimes not very clear-cut. Yet, all will admit it is most important that we should make accurate analysi of our returns if we are to aspire above the leve of mere wages, with wher ally were to cast up accounts, take an inventory, figure out compound interest on the farm investment, allow themselves and their families reasonable wages, and deduct a fair cash value for living expenses, how many could show a dollar profl? Some who have studied the matter have despaired of making such pensating, contenting themselves with the comafforded by their calling and concluding that farming is their calng, and concing that all the factors of the economist's equation. We grant there is ground for the opinion, but yet farmer's profits due wholly to parasitism by othe classes, or must something be charged to a loose ness of the principles on which his business has been conducted? If so, this should be our firs concern, and it is a material service any farmer renters the community who protuces a higher labor and at smaller expense. Strong emphasis should he laid on quality There is a limit to the amount of food per head quantity might glut markets and depress prices In this age, the tastes, not only of foreigners, but more fastidious ; they demand better, more uni form and finer-finished goods, and an increasing class is glad to pay cheerfully an extra price for an extra article. We sustain a loss that profits which, prepared with a little more care and skill conts. There will always be money for him who will take the pains, make the effort, and use the
$\qquad$
$\qquad$

The bulk of the returns from any legitimate business proposition go to offset, the cost, of production. It is the little extra return that yields the profit, and it may easily transform a loss into a from It is the extra poed the extra bushel of rain a given area of land, the extra half acre of plowing accomplished by using a third or fourth horse, the extra ton of crop paoduced by a little better rotation, the extra pound of milk per day as a result of a daily milk record; and, more important still, the extra dollar obtained for produce by reason of its superior quality-wher ever we turn, in all the ramifications of our bas ness, in the extra lies the profit every time , The world is full of ordinary men, marketing ordinary stuff at ordinary prices. The one who can do just a little 'bit'better than his neighbor. Such a one not only betters himself, but, since amall profits are all we have any reason to expect, we should multiply these by increasing our turngver: A large turnever is made possible by a close istudy of margins. The man who produces ninety eents worth of goods at a cost of one dollar canpot at ford to borrow capital and hire labor to nerease his output, for the more he hiresi/ the move he loses. His best plan is to conduct tunity for himself and family to earn wager. The ten per-cent. business loss will, of course come out of their wages, but that is better than suffering the corresponding loss on a double volume of business. On the other hand, the man who produces a dollar's worth of goods for ninety cents can afford to extend his operations, and the arther he extends-within limits, of course, for farming does not lend stself/adventageously to vast extension the more money he will makes A difference of ten per cent. in cost of production abiliy a a the necessity of a small, unprofitable one. It pays to study margins closely. It would pay to build a silo, for instance, even if it reduced the cost of producing $\$ 500$ worth of meat and milk by only five per cent. each year. A little gain here and there. a little spreading of cost and selling price, is well worth looking after. A very few such gains bulk into a respectable dividend. The great American meat-packing enterprises have paid enormous diyievers. On a smaller scale, and to on large turnsimilar principles apply in farming. Let every reader ponder this question, and ask himself whether he could not make various little savings here and there. Am I making the very most from my cows?. Am I making every possible cent out of my steers? Am I raising as much reed as I might? Am I employing my hired man's and my own services to the best advantage? an I afford to work a two-horse team? Can I, afford to waste a load of manure? Could $I$, inCan I afford to sow byour seed? Can of sheep? o. keep books and take an annual inyentory? such questions are calculated to arouse thought and stop leaks. Meantime, let each man nail up in his barn, or frame as a motto in his house, that they may come to be emblazoned on his memory, the words: IN THE EXTRA LTES THE PROFIT

There are two effects modern invention should are: It should lighten the husbandman's atoils, struggle for existence, and more to the mere ment of himself, family and home ; and it should enaple him to produce goods that will command a higher price. .

## THE T RRMERSS ADVOCATE and Home Magazine.

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## Our Western Letter

What is the West doing in the early spring days of 1906 ? Growing. That is the answer to the ing for a season's immigration that will preparall previous records in the shade. As an illustration of the progress of a Western city, an illustrayou the story of a lot.

It was only a small lot, with a frontage of 50 was sold for $\$ 50$, in 1882 for $\$ 100$, in 1884 prices soared and the lot changed hands at the magnificent price of $\$ 500$. Six years later $\$ 2,500$ was for $\$ 7,500$. You might think now that ihe price was fairly high, but someone thought otherwise, and the same year it again changed hands, this
time at $\$ 12,000$. For two years the last purchaser held the property, and then, in 190.5 he sold it for $\$ 16,000$, and the new man resold the same year for $\$ 24,000$. Is the story done? No A few days ago it was sold for $\$ 30,000$. That is the story of a city lot in Western Canada.
What town was it in? I won't tell you, but it was in the new Provinces, and it is only typical of what has occurred in other towns in the West. It is not a boom; it is due to legitimate de-
mand for a good business location ; it is the result of the advancement of Canada and of the Thadian west. Here is the sequel to the story : West totalled years ago the cattle trade of the West totalled twenty-iive head. Now there are Western Canada. One-half of these pastured in and the rest are sheep and horses five thousand brands appear on the Northwest Government records. That is only one side to the question.
Five years ago there was in wheat a total area of 412,864 acres; in 1905 the area was
$1,149,558$ acres. Meanwhile, the increased area 1,149,558 acres. Meanwhile, the increased area
devoted to other crops has kept pace. These figures apply to the two new Provinces alone, but
they are eloquent with the story of the progress of the Last West. All wealth comes from land ; sion of the agricultury have followed the extenlot worth $\$ 50$ twenty-five years ago is worth $\$ 30,000$ to-day. The Dominion Commission of Immigration is responsible for estimating our wheat crop in 1921 at $700,000,000$ bushels. This may seem optimistic, but who can tell ? Five million acres of virgin soil will be taken up by the incoming tide this year. The West is alive to its unfolding possibilities, and certainly things A few
plains of Weeks ago I travelled over the wheat plains of Western Saskatchewan. They seem limiti-
less. North, south, east and west to where the less. North, south, east and west to where the
sky line blends with the whiteness of the prairie's winter coat lies a vast area of rich and level land. Here and there a settler's home upon the broad openness of the far-flung plains. A few months more, the golden grain fields, an open sea f wheat-a mine of untold wealth, for at times wheat-growing sems that even the recklessness of the wheat-growing land-robber is powerless to exhaust tions may continue for and that present condicome. But even in the very center of the whea country they are building more solidly then wheat alone, and in this they are adding to the stability of their agriculture

## HORSES.

## Stay with the Right Kind of Sires.

## Editor The Farmer's Advocato

 articles in your paper on horse-breeding and selection of sires. At the outset, may I ask the queslieve, the importer with his champions, the salesman, general gossip, or the market, or where are we to learn these very important, lessons? Inwriting of this, I refer to draft horses. In the Writing of this, I refer to draft horses. In the should have been castrated, then the market would have very few more good geldings on it. The
trouble is, in Scotland anything trouble is, in Scotland anything of a horse colt
that they can scrape up a pedigree for is kept for a sire, and goes into the hands of the dealer, and with every good horse you select they put two poor ones on you, or, you can't have the good second place, things will need to take. In the second place, things will need to take a change
or we will lose our draft horses, for if we are foolish enough to be led by the lessons of the reample, to breed good geldings and mares, an exa fraid the market will turn a deaf ear. Whickness, with horse with lots of size, quality and thickness, with good large, sound feet and lots of all screwed up and their front legs band stifles in the same hole, with no padding of flesh on their back and coarse coats. I will say here, again, let us stay with the good thick-stamp
horses, with well-developed quarters, that whe we harness and hitch them, pick up our lines and mount our wagons, we have something to look at.
Then, in the third Then, in the third place, we can't believe the
salesman, or general gossip for we get salesman, or general gossip, for we get too many to make our breeding operations profitable, we want
must stay with what must stay with what the market demands, does not matter when we go to market with a
good thick, quality gelding, weighing around
1,800 pounds and up, whether he is of lar strain. There are lother of good of any popu-
if they had if they had money influence at the back of them, of good and create a demand they are not enjoy ing. Don't leet us lose our draft horse for any
popular craze. We hear this popular craze. We hear this voiced on every ings is not the whole tip; we want some geld-
mares. Well, if we poot mares. Well, if we get them, so much the better,
as long as they are of the type described. We win as long as they are of the type described. We w:li
have more mares to do our work, and raise the
kind we want, both of geldings and Coming back to the importing and selectins stallions, we must not blame the importer too
much for bringing out too many second- and third-class horses, for I believe it is out of this class of horses they make most profits, for too
many men, when they go to buy a stallion, get
a horse to suit thoir a horse to suit their pile, and, as long as he is
imported and registered he is imported and registered, he is all right to run at
$\$ 10$ to $\$ 12$, but they can't afford to buy a horse
at $\$ 1,800$ to $\$ 2,000$ and run him at the fee. Now, here is where breeders are to blame When a man buys a really high-class horse, and asks $\$ 15$ or more for his use, how many men will
pay it? Instead, they will go and use the $\$ 10-$
horse, and seem to be prejudiced against the good
horse. I don't know why, but it is the cas a neighbor's horse, even if he was the bes world. There are not many who make out of the. horse business. You show me ten who lost about all they had I will show depend on service fees, but if a man has good mares of his own he may pull out.
c!usion, I would say, if we are going clusion, I would say, if we are going 1,900 pounds and up, of the right kind weight some stamp about him. Too many of our with lions only weigh 1,500 to 1,600 pounds; we-
want geldings to weigh that, and more want geldings to weigh that, and more. Give the
man with the good thick, quality horse (don't for get that) a chance, encourage him, give him deposit at time of service enough to defray ex-
penses, and enough at collecting time to penses, and enough at collecting time to pay for
his horse; and if he proves successful, and mat a little money, don't ask the horseman to may play marbles for fun and pay all expenses. I (in) hellington Co., Ont.
try and help it out. B. YOUNG.
W. Wellington Co., Ont

## The Farmer's Horse.

## ditar

In briefly outlining our opinion on the above look, and see whetheressary to take a backward during the past twenty years, we have made any Twenty or or are just simply marking time. caised his own horse, and besides, every farmer a horse to sell every year. Previous to that date here was a very good, serviceable class of Clyfova Scotia and Prince Edwa Eastern part the present time those stallions would be consider d too light to meet the requirements of the trade. They would weigh from 1,400 to 1,600 pounds, and were active, trappy-gaited fellows, got colts that were eagerly picked up at remunerative prices by American buyers, and also made a splendid farm horse, were just what was wanted for the plow, harrow or mowing machine, and farmer and his family to church or to a picnic a fair rate of speed.
took away every sound horse that came here and off the farm, and right here was where the mistake was made-selling our hest mares that should so, if those mares were kest desdale stallions that have come into the the Clysince, and their progeny again bred to the stalat of the same breed, that are being imported of horses second to then we should have a class could be hitched alongside their dams at $2 \frac{1}{2}$ years ing the ordiade to own their own living by dofor market. what, instead of having this style of horse, What do we find? A mixture of everythingPercheron, and a buyer would have to Shire and length and breadth of the county, we might alof any. fault to find with understond that we have any are good horses among them all, and men have the average farmer wants to avoid horses that ket. He wants, also, to avoid fads. At mar-
resent time the present time the craze is for big, overgrown
horses ; everything is sacrificed for size. A horse
that weighs a ton that weighs a ton, or thereabouts, is now con-
sidered the right thing to breed to, just becaus
there is a limited dem such a horse, and ignoring an unlimited market
right at our dor draft or express horse that will weigh from 1,200
to 1,400 pounds-heavy enough for all kinds
farm work, and active produce to market at an eight-mile-an-hour gait
andl would tring, when sold, from $\$ 150$,
To breed stallion we use hhould it is not enough that the we are firmly should be a Clydesdale, althoughe preaminently the farmer's horse : stilldesdale is
stat every
to selion of that breed will fill the bill. We want to selfect himat hreed wis action, quall the bill. We want
conformation bather than for his size and by
 harses in manticular. that would make Canada (1), the individum a sonrce of pleasure and profit NIRREW MCPHERSON.

MARCH 22, 1906
THE FARMER'S ADVOCATE

Management and Care of Stallicns. What I have learned by thirty years of experience, relative to the care and management of stal-
lions, I am willing others should know, and should it prove of service to any one, I
paid for the trouble I have taken.
A fer things that I consider of great importance are, first, before using the stallion to mares let
him get some age. No colt will breed as well as an old horse, from eight to sixteen years old, pro-
vided the horse has been properly taken care of. vided the horse has been propery taken care of
Next, avoid all pampering, both as to care and
feed. Feed and work hinc, as you would any feed. Feed and work hinc as you would any
horse, not overheating or overexerting him. If a good roomy yard where he can run and exercise
at his own free will. There are three things that at his own free will. There are three things that
athould be remembered that are not conducive to should be remembered that are not conducive to
fertility in the stallion, or to soundness, strength
or longevity in his progeny, viz. : Idleness,
pampering with unhealthy food, and putting him to service when too young. If, these matters are observed, and you will limit your horse to the
proper number of mares, you will get good reproper number or mares,
sults. As to feed, we would give him a liberal quan-
tity of oats and bran, two parts oats and one of bran, twice a day, and once daily through the
mare season a good feed of boiled barley, with a mare season a goode feed of boiled barley, with a
little flaxseed cooked with it ; mix with bran, and feed hot at night. This, with good timothy
hay and sufficient grass to keep the bowels open, hay and sufficient grass to keep the bowels open,
should constitute his daily feed, with perhaps a few ears of corn occasionally. Avoid feeding hay in the morning and giving large quantities of
water, for, by observation, you will soon learn water, for, by observation, you will soon learn
that no horse serves well when his belly is distended with hay and water. To prove and demonstrate this, take your horse out and the next morning give him all he can eat and drink, and
note the difference. This may not appear upon the face of it like a matter of great importance, but I maintain it is, as it saves the horse a good many services and extra labor. By following these few simple rules you will have as goo re
sults as though you had read all the books written on this subject. Remember this one important matter, keep your horse healthy and as near a natural condition as possible. To do this, you
must feed and exercise him properly. This must must feed and exercise him proper continued all through the year. The man who keeps his horse right just through mare season, and then confines and keeps him in an unhealthy
state all the rest of the year, will find himself state all the rest of the year, will find himself
with an unprofitable stallion in a short time.with an unprofitable stallion in a short ting.
IF. C. Warren, in Wis. Exp. Station Bulletin.

## Foaling Time.

As the foaling season is now approaching, pregnant mares should receive a little special at-
tention. It should not be forgotten that a mare in the advanced stages of pregnancy has, in. $:$ iddifoetus to sustain, and as this calls largely upon her resources, she should be fed and cared for first-class quality, and of an easily-digested nature. She should be fed liberally on tran,
tvith a reasonable percentage of chopped or crushed oats, in addition to good hay. A cupful of linseed meal and a carrot or two daily, tend
to aid digestion and prevent constipation, and, at to aid digestion and prevent constipation, andon
the same time, are relished. The too-common practice of feeding solely on dry hay and oats, practice of feeding solely on ary hay ano seats,
while giving good results in working horses, is
not by any means the best for breeding nia:es. not by any means the best for breeding naaies.
The bran and succulent food mentioned tends to keep the digestive organs normal, and also stimulates the lacteal apparatus to the desired activity. care, they should not be pampered and kept in ideness, from the too-common idea that sustain-
ing themselves and footuses is sufficient labor. They should have regular but gentle exercise. Or-
dinary light farm work is much better than idleness. Of course, they should not be required to
jerform heavy labor that will entail excessive muscular or respiratory exertion, as there is dan-
ger of such producing abortion; but the mare that is kept in fair condition and regularly exercised
or kept at light work will, with few exceptions, produce a stronger foal than her sister that has
heen pampered and kept in idleness during the Thole or greater part of her period of gestation. of gestation. If it is not practicable to give her exercise in harness; she should be turned out in tine day, when the ground is not too slippery. Care should be taken to not turn her out with strange or vicious horses that might worry or
kick her, but some safe means of forcing regular she shows sign be observed, and contition As She shows signs of approaching parturition. As
the period of gestation is variable in different ani-
mals, and even in the same animal in different Imals, and even in the same animal in different
years, we cannot tell with reasonable certainty
when the parturition will take place. In round figures, we may say that 11 months is the average
period, but observation teaches us that this is by mo means constant, and that the period varies
from ten to thirteen months, and, in rare cases,
we may notice a greater variation. Hence it is we may notice a greater variation. Hence it is
wise to be prepared for the event at any time
aiter the tenth month. When in the stable, she after the tenth month. When in the stable, she
could be kept in a large, comfortable box stall that contains no boxes or mangers in which the foal may drop in case she stands, as sometimes mares do during parturition. It, is unsafe to al-
low a mare to foal while tied in a stall, as she is unable to give the foal the necessary attention, and it may perish from this cause, or, if it be a
strong one, and is able to get up and walk ariound strong one, and is able to get up and walk around
without any attention from either dam or man it is as likely to walk into the stall of another to get as that of its dam's, and, in its endeavor killed. The box in which the mare is kept should be cleaned out regularly, and a liberal supply of allow manure, both solid and liquid, to accumufavors the multiplication of microbes of different kinds. In support of this practice, it is claimed that the presence of manure upon the floor pre vents it becoming slippery, and thereby avoids that if the stall be thoroughly cleaned out daily and especially if a little slacked lime be scattered over the floor regularly, it will not become dan gerous in this respect. the lome performs a two prevents the formation of odors, and destroy microbes, which, if present, may cause trouble in the foal. The most dangerous of these microbers present after, is that form which gains entrance through the umbilical opening of the foal, and causes that serious and usually incurable disease symptoms of approaching parturition, with which all breeders are familiar, appear, the mare should be carefully watched. There are many reasons be watchare wo will discuss these in shouid be watched. We will discuss these in a futur
issue.

the manure remains to enrich the fields. $\qquad$ he manure remay of example, where mon he received more than twice as much per ibushel tor their barley, plus the manure, when sold in the form of hogs

IMPORTANT QUESTIONS.
But win the demand for animals and animal products continue ? Can increases be reasonable expected? Should farmers generation. We are satisfied that affirmative answers to these questions are logically correct. Oure export trade to Great Britain in animal food products hod reason steadily increasing, and we see no good reason
why it should not continue, with the intelligence and resources at our command. Competition there is keen, but Canada ought to be jable to hold her own in that confict. population and industry Canadaward, the ins

WHAT THE MARKETS SHOW.
Our readers are familiar with our output of live cattle and of bacon to Great Britain. As another illustration, let us look at the trade done [Note. The market days here are Tuesday, Thursday and Friday, but so little business is transacted on the latter that it may be left out of account. The lessee of this market is Mr.
Wm . Hunter, who pays the city a rental of $\$ 36$,000 for the year.]
The receipts for 1905 were reported as $101-$ lows: Cattle, 147,476 head; sheep, 150,136 head; hogs, 128,475 head caves, little idea of the number of hogs handled in Toronto, because under modern conditions they thave been going direct to Co., and Park, Blackwell \& Co. (the latter handling a proportion of beef, ees well as their steple, hogs,. The Harris Abattotr Co. last year dressed for the Wm. Davies Co. who have scattered throughout the Province, some 80 mors scattered throughout the Province, some 80,000
cattle, 40,000 sheep, and 5,000 calves. Then there are the Wm, Le:
veck and Puddy Bros.: vack and Puddy Bros,
establishments, besides, establishments, besides
perhaps, a score of
smaller ones. In the smaller ones. In the timated that not over ten per cent. of, those go through the market.
With regard to the ba. con-hog supply question, 1id parenthetically that there appears to he leen
competition for supplies, of the large of one referred to indicated a
very steady decline very steady decline in
the percentage of the
top class top class of their tour
bacon grades since last November. At a recont
date those in the best date those in the best
grade hind declined to
rahoutis 80 "peruvent. of
 gradas inoreadod. : ourlie toof armers THiblding oble shog tooquang ding oithe







|  evidenfe of the if aith sal ibusiness mennin the hpol <br>  equipped afteronthe ${ }_{g}$ mosit up-tosdate fulshion-ywwith covered aneas ampobarickn loons pican; itufiecedsary, <br>  And, sama, 3,090 hagiti, Ando ohe ieompany maveriand, increased. Inowhay hase excellenti itrall way fatilitits, <br>  hegan husippsp, under nery considemable händfotips in the sumamer of 1 190, 9 nandzinot ibaloing into wecount colves th, the , buyimess, of therypant twe searm <br>  <br>  |
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Der month has baideen and Fetween 6.000 the run of catt besides the quiota of sheep 'and hogs. Mon day is the big market day of the week at the Junction. The future of this marketicek assured With the growth of packing-house and abattoir in manager, Mr. H. H. Modgson, realizes a redoublet assurance for the future
NEW PACKING ESTABLISHMENT AND
Two large establitiolr.
Two large establishments on St. Clair Street facing south, and overlooking the Union Stock in Abattoir One of these is the Levack \& Mar in Abattoir Co., who are covering nearly $1 \frac{1}{2}$ establishment, with a capacity for handling ilize 3,000 cattle and probably 8,000 sheep and lambs per week. Five hundred head of cattle per day 3,000 carcasses of dressed beef: Mr manging space fo the well-known Toronto live-stock and meat trad er, and Mr. Martin is an American, who is at the back of a similar new hig cuncern in Montreal in charge. This establishment approximates outlay of some $\$ 200,000$.
Herstand further west is a still larger, and, in aind successfoul Torgnto house cuna the old that will cover probably two acres, capable disposing of 5,000 hogs per week, and 200 head per dest each of cattle and sheep. Judged by the tion.

THE GENERAL OUTLOO
in full swing, there would sisting establishments in full swing, there would seem to te every rea-
sonable assurance that the Ontario farmer, in a generous hand, should provided everything with quality of his herds and flocks, in orfor that ho veloping at his door, providing that the prices and cost of production can continue to he so adfrom the farmer, problem is an-uncertain element doubt room for the application of more tho is $n$ going and closer business methods in many quar ters on the farm in live-stock rearing. Men of a.conservative turn of mind, well versed in the
present trade in Ontario meat an early increase, to the extent of 80 to 40 ider cent. in animal food products, as a not un-
reasonable possibility.

## Our Scottish Letter

Shorthorns had a top price of 1,500 gs.; Another year
gherdeenAngus a top price of $270 \mathrm{gs}$. ; Highlanders. a Aberdeen
of $£ 121$ top and Galloways. a top price of 41 . scems like a dream, but the facts are all there, and the one prosperous department of British agriculture, to-day
is the breeding of pedigree stock. horn sale of 1906 constitutes record. Never before
have such prices been recorded for yeariling bulls, and
the grand averace of the grand average of $1844 . \mathrm{s}$. 5 d . for 251 bulls is some-
thing to boast about. Last year the corresponding figure was 44911 s . 11 d ., but prices which then made
men wonder ware this vear nothing accounted of. The outstanding averages were made by Lord Lovat, whose
Beaufort Casille herd in Inverness-shire has a fame: and the two James Durnos, in Aberdeenshire,
 which Mr. Miller took off to Buenos sheost fleshy red,
or $£ 1.575 .5$. The fifth- and the nim Went to Buenos Ayres. their buyer buing. Mr. Domald
MacLennan. and their respective prices. $410 \mathrm{gs}$. and 56 Gil
 managed to keep at home at 700 gs. or L 735 . The
average made ty the Westertown secondi-paize group of
three was

 known in this country for a long time. breeding bulls Mr. Durno's relative and namesake, who owns the
Jachston herd, also near to Rothia-Norman, bent him for average, but had fewer animals. The Whackston re-
turn is $£ 26210 \mathrm{~s}$. of an average for five yearling bulis. s. for three. and Mr.'H. M. S. Mackay.' Burghe' Forres C236 5s. for two. A moted Aberdeenshire herd, that our. and Mr
$\qquad$
arrangements for judging this magrificent lot of young Shorthorns. The bench consisted of two scotsmen and store cattle. A very emphatic protest againinst two Englishmen, Messrs. A. M. Gordon, of Newton, and turference' with the status quo was recorded at
William Duthic. Collynie, Tarves, representing the north, by the great gathering of breeders, feeders and and Messrs. John Handley, Gereenheard, Miinthorpe, West- ers who there assemul, of, The hand of the Gove
morland, and George Harrison, Gainford Hall, Darling- is to be forced by one of their own suppurte ton, the south. The Beaufort, Gainford Hatl, Waring Hates blood in them, which has always come out in the Beaufort Castle, was the first who successfully blended Rates and Cruickshank blood. The Aberdeen bulls selected by him crossed well with the cows on the Bates Royal Star. Some times in the past the pronounce red of the Lovat cattle was regarded as a drawhack "tleck" of white, as happened to be conjoined with a Heck of white, as sometimes happened. . But the reds Champion is simply an and the 1,500 gs. Broadhooks ican market. No home buyer got a chance to bid for hands, and it was all over in $1 \frac{1}{2}$ minutes. The presid ing auctioneer was Mr. Toun l'aton, who also sold the
Kinnaird Castle Highlanders at record prices in August
$\qquad$ makes a good second to the Shorthorn. Of cour bread A.-A- Black polled breed comes next, but it is after
long interval. The average price of 276 bulls at per
 same number in 1905 . At Aherdeen. in the same werk,
190 yearling bulls made 221 0s. 9d., and 11 yearling heifers, 1.13 . 17 s . 9 d . Mr. Fischer. from Iowa, , lid n
yood deal to make the sale. ns. hought whatever he wanted, and any competitor wha Rallindallorh naxain easily gut distanced all ampen itore taking the highest price, 270 gs., or 1288 1 1hs... th.
buyer heing Mr. Donald Macrae. Stenhouse. Dumfries. and the animal a benutifully level specimon. natued bere
asting. Iike nearly all the other hioghoct


## maproved Issex Boar.

tribe. The Ballindalloç ayerage for eight thulls
 LiLis 15 s . Trade for the blacks was certainly bettur
this year than in 1905, but the "black" men are never satisfied unless they are upsides with the Shorthom
 II deanting with Wack polled stock. In the case of the rewless prairic in hot weather. and the ofjection tated

$\qquad$
$\qquad$
$\qquad$
$\qquad$ lines was very slow. The highest priced bull, Frar-a-
Bhata of Aholl. Was champion of the show. as he has
h.,em first for the pust two sears. 1904 and 1905 , at
$\qquad$
$\qquad$
$\qquad$ Great Value in Paper and Premium.
he coltan. The effecet of the cross was tod FssexNicher Hobout 18.40. and was chiclly effectedcountion they are found most Western's tenants.ared and wiwn greater length of late vears in
anala. so that as shown at the fairs now, they
anform to the
() " ..... 2





In the Feeding Yards of the North-American Live-stock Co, Port Arthur.
Desirable Types or Lambs for Peeding
The open sheds are the only sholtor Or the screenings to advantage, what quantities couple of inches long. From the appearance of
thene were available at the big elevators at the these screenings, we assume that the dockage from head of the Great Lakes being shipped across the the farmer's wheat is subjected to a grading pr purchased by the feeders, after paying freight and low-grade stuff, and a pertinent query is, "what purchasing bring the screenings up to a cost of $\$ 11$ to liecomes, of the high-grade stuff made up of small $\$ 12$ a ton-duty $\$ 1.50$, freight $\$ 3.50$, the he wheat? As $\$ 6.00$ a ton is obtamed it is fair to price at Port Aithur being $\$ 6.00$.
The North American Live-stock Company was assume, will be obtained for the higher-grade The North American Live-stock ompany ine
organized at fort Arthur, to turn the screnings stuff, and the only conclusion any fair-minded per-
into mutton on the spot, the head of the Com- son can colne to is that, so long as the farmer pany believing in the maxim, "take stock to the shipper has to pay reight to the lakes on the ind. not feed to the stock, and, with the annual- dockage,
I. increasing quantity oi screenngs, it requires is done him-in plain English, he is being III, extra quality or prescience to imagine that robbed! The dictionary does not contain a word
 yreatest. Feeding and finishing boint for Wostern
time was the reverse of sultry, but the weather was ideal, being dry and sunny.
The desirable type of sheep fo ing yards are the close-woolled for the open feedhg yards are the cose-wooled, chempact grades, on the Merino grade foundation. The more openfleceed sheep do for feeding in closed sheds, but
they are not suited to cold and snow. The com-pact-woolled sheep also yield a heavier fleece than do the others, the difference being sometimes as much as ten is to three. Objection has been made to the shearing machine by some sheepmen,
on the ground of sunburn on the sheep, hut the experience of the Oregon men is distinetly in favor of machine clipping, as many as 125,000 being shorn by one firm at a cost of 8 cents a
head. The opinion of men competent to pronounce is that the clip the second year after the machine


Where Some Screenings are Cleaned Out.

## 446

THE FARMER'S ADVOCATE.
Is used is improved over that where the shears
ere used. to be able to compete with other countries and
stay in business.

FOUNDET 1866 sation with the foreman of the feedperience at the Twin Cities had considerable exings were cheaper here than on the "other side." Where they could pay, on the average, $\$ 9$ a ton things here caused the venture deal, but that two an experiment, namely, the difficulty of getting sheep to feed, and finding a market for the mutsecuring the sheep on feed. The experienced in Jaffray, a Canadian with experience in feeding and Marketing sheep and cattle at Minneapolis and beicago, is of the opinion that more sheep should running expenses, the lambs being the gain the can be seen, two crops are obtained; but in Manitoba, Saskatchewan and Alberta, where sheep may
be kept under range conditions, winter feed and
shelter shelter must be provided or the range ewes wil in the late fall at $\$ 2$ per head, a car (doubl deek) holding 250 , and of shorn sheep (shearlings
or older) 200 .
Therospects for the sheep-raiser are bright. wool is going up. Mr. Jaffray says
noticed many men go into cattle-feeding and lose,
Port Arthur the feeding is domeelves thereby. At
though, as can the open, al-
though, as can be seen by the illustrations, a
high-board fence surrounds the yards; self-feeders
are uset for the screenings. A car, sef hay, cost-
ing $\$ 8$ a ton, lasts the feeding yards ter,
It is Western prairie hay, but clover would be
from Duluth-is kept in the troughs all the time,
and to that the foreman attrisutes much of their
freedom from loss by siekness. For successful
feeding, the-oninion holds thet.
feeding, the-opinion holds that a cold, dry, sunny climate, such as Western Canada possesses, is
ideal ; but, as already mentioned, the barelegged, open-fieeced, sheep need sheds, whereas the others

- Merino grades, with a dash of Shrop. or other Down breeds-will do well in the open.
maken qualified to pronounce, sey that screenings consumer gets well-fed and well-bred mutton he wants more. Not only so, but mutton is said to be superior to beef as a flesh diet, not having the of gouty and rheumatic people, which beef is said to have.
One thing the Grain-growers' Association could the Grain Act, is to have a clause in amending provide that, as railroads retain the screenings, the freight on the dockage (screenings, etc.) from should be remitted him, the terminal elevator should be remitted him, by deduction from the
freight bill. It would not be possible to return each farmer the proceeds from his screenings, and any corporation, government or individual has any right to penalize the farmer for growing weed
seeds, by confiscation of the screenings. The stock men, in conjunction with their grain-grow-
ing brethren, could well afford to agitate for a ing brethren, could well afford to agitate for a
feed-in-transit arrangement, so that sheep or cattie might be brought from the ranges so that th coarse feeds and waste grains and seeds might be utilized, and their valuable fertilizing effects be employed for the benefit of our farmers
Canadian land. these requests are grasped by the railroad men,
they will duplicate their seed-grain-train enthey wil
thusiasm.


## Champions the Bacon Hog.

Harding has late issue of your paper that R. H. Harng has joined the list of those who are the extreme bacon type is not a profitable hog to raise we agree with him, but when he slings mud ments. What first started me breeding bacon mose - as $=$ thorough test miade of the different types and breeds, selected from the best breeders
of the country. The results that I got from this experiment made me pin my faith to the bacon Chester Whites for some time, and, having had some experience at our leading shows, where all classes of hogs compete, he should be able to erest to hog men. Now. Mr. Harding pe of intell us how many first prizes during the last ten years, when in open competition with other breeds
in the bacon classes, has the pure-bred Chest in the bacon classes, has the pure-bred Chester White won? Second, win you also tell us if all you pin your faith on, how long would we hold our present position in the best markets of the world ? I would say, if the hog producers of our
fair Canada could hold this trade by breeding and raising any kind of hog he happened to take a liking to, by all means let him do it, but bacon
stay in business. plain, and say there is no credit due any of the lard type of hogs for the fifteen to seventeen mil and go to help swell the from England annually Canadian farmer. pettye packers and the farmers have no time for ment they both have will require all the good judg position in the English market. The present high produce the best article possible, and the packer of a it in a superior form, to meet the demands Let us breed market.
back, as some would like us to do where we go off twenty years ago.
Wentworth Co

## Feeding Calves.

Writes calf, in order to become a profitable steer, Writes Prof. Curtiss in Successful Farming, must breeding are not worth raising. It may be garded as settled at the outset that an ordinary or even a good grade cow cannot be profitably kept the year round on high-priced land for $t$ The hand separator has many advantages. some farms, however, milking is objectionable. Where that is the case, the Scottish farmer's policy may be adopted, namely, a good cow is months. At the end of this time the two calves are taken off, and a young calf is put on for about five months longer. To do put on for must be a good milker. If she is not a desirable
cow to keep she is fed liberally, so that by the cow to keep she is fed liberally, so that by the
The use of the hand separator, however, fur
nishes the prevailing system where the to increase the returns from the cow. It is is tirely practicable to raise good calves on skim milk when the milk is separated on the farm. fresh from the separator, is a valuable feeding product that is not yet fully appreciated. It contains all of the elements of growth essential to young animals, and, properly supplemented for growing young stock. There an ideal ratio ter product obtainable, and that is only one' tion-whole milk-but that is too expensive for
ordinary feeding. ordinary feeding.
Separator ski
fresh from the skeparator in wholesome condition It should retain the natural body temperature of the cow as far as possible, and be fed at a tem-
perature of not less than 85 to 90 degrees. It should always be of uniform condition. Irregularity is expensive, and always fatal to the best re-
sults. The regularity must extend to time as sults. The regularity must extend to time as
well as to condition and quantity quantity is highly important. Over half the ills of skim-milk feeding with calves is due to overmilk for the firstset. The calf should have new from new to skim milk or thould be made The change and to cover a period of about ten days comes the critical period. The great danger is in overieeding and consequent derangement to
digestion. For the first two weeks of skim-
milk feeding, migestion. For the first two weeks of skim-
melk, three to four pounds at a feed will
be sufficient. When the calf is a month old it may take ten to twelve pounds per day, and when
it is two months old fifteen or sixteen pounds will it is two months old firteen or sixteen pounds will
be required. Only the strongest and most vig-
orous calves should have as much as twenty orous calves should have as much as twenty
pounds per day when sixty to ninety days The skim-milk ration should be supplemented hay. Grain corn and oats, and a good grade of but always separate, and a clean, fresh supply put
in the boxes each day. It will be safe to feel in the boxes each day. It will be safe to feed daily as much as the calves will eat up clean
from the time they are a week old. Ground feed is entirely unnecessary for a calf under six months of age. Corn and wats are preferable to oil meal for supplementing a skim-milk ration, and much less expensive. When the fat has been reunusually rich in protein, and needs a starchy or
carbonaceous product as a substitat carbonaceous product as a substitute for the fat a product containing an excess of the frotein which is already abundant in skim of the protein experiments conducted at the Iowa Experiment from corn and oats, in supplementing skim mado than from oil meal. Six calves, averaging ten pounds in ninety beginning made a gain of 857 pounds in ninety days on a ration of this kind,
at a cost of 2 cents a pound for the feed
sumed. Where oil inged. Where oil meal was used in fupplemientThe about The hay used in ferding calves should always
be clean and bright, and of the hest quality. It
is especially important
feeding. The quarters should be kopt cl
ventilated and wholesome and should ventilated and wholesome, and should be
where they will get direct sunlight each da Where they will get diroct sunlight each day
in addition, the calves should have access
lot or paddock for daily exercie lot or paddock for daily exercise. The The
should be cleaned and freshly bedded daily should be cleaned and freshly bedded daily. Much primarily to unwholesome and in calves is due tions. During the first one hundred days condi-
should manes should make a gain of one pound and a half calve on a cost of two cents a pound or less, when fay
on a ration of separator skim hay. During the next one hundred days the and crease in live weight will cost about three the inpound. These figures apply to calves intended for the dairy need not be fed grain so healves intended for

## THE FARM.

The Function of Plant Nutrients.
plant growth is absolutely
fully fully demonstrated that in order to produce narmally-
developed plants must be present. 11 one constituent is is prese required suffcient quantity, no matter what amount of the in in nutrients is available, the plant cannot be fully de veloped : consequently, just às a chain is only as strong soil is limited by the the crop-producing power of tively the smallest quantity. When a mere neutraliz tion of acids is involved, potash or lime may be r necessary soda, or when incrustations of a tissue is may be taken by silica. But in of calcium carbonat functions of a chemical nature, not even a partial sul Fitution is possible. our are likely, to be present in insumcient quantities tion. These are, the only ones requiring special atten calcium. Chemically considered, these are the subssas anc we estimate in determining the fertility of soils, the In the farmyard manure and of fertilizers.
ciable growth. With only a limited mupes no apprebegins its growth in a normal limited supply, a plant available nitrogen is used up, the but as soon as the leaves begin gradually to die down from and smaller
all the plant's energy is centered Nitrogen is one of the main constituents of proteids,
which are present in all pormer uent of chlorophyll, the green-coloring matter of constit,
hence with hence with a limited supply of nitrogen the leaves will
have a sickly yellow color. developed leaves, of a rich green color, are not suffering
for nitrogen. An over-abundell however, produce a very rank growth of leap and stem,
and retard the maturity of the seed. Therefore, when
crops, such tops, such as the cereals, tomatoes, potatoes, etc., are
to matured, an over-supply of nitrogen may bo jurious, but with cropes supply of nitrogen may be in in-
which are harvested in the Which are harvested in the green condition, an abundance hardly necessary to point out here that the nitrogen is
most economically supplied by the growing and plowing Phosphorus, in the form of phosphntes, is found in
all parts of the plant, but tends to accumulate in the upper part of the stem and leaves, and particularly in
the seed. Its function is to aid in the production transformation of the protein bodies. The nuclei and
said to be the manufe phosphorus is essential for the full action of the nuclei The phosphoric acid is said to "follow the proteids,"
and it seems to be so essential that the yield of grain in much more increased by phos-
phoric acid than by nitrogen and potassium compounds An insufficient supply of phosphoric accid is always fol-
lowed by the production of a poor yield of grain; or, in the case of sugar beets, by a compara
tively low percentage and stem growth, and the presence of phosphoric acid
is needed to hasten maturity. So strong is the action three-quarters of this direction, that at maturity about taken up by plants is found in the seed. Potassium is
one of the most important and least elements in the ash of plants. It least variable of all the
tributed throughout quite evenly dis ccurs in the entire the growing plant, and $g$ nerally ny of the essential ash constituents. It is taken of n the early stages of plant growth, and is is always pres-
nt where the production of plant tissue function of potassium is. apparently to aid in the The uction and transportation of the aid in the proprotein, and thus indirectly aids in the formation of organic matter. It doubtlecs has much to do in armation of all
way of regulating the acidity way of regulating the acidity of the san, by formine
salts with the organic acids developed during the growth
of the plant. Calcium ts a constituent of traw ranth
more capable of withatanding unfavorable climatic ditions, as drouth and early frosts, than are crops
well supplied with lime. The exact function of is not clearly understood, but it does seem to ald in the construction of the cell walls. According to some potassium or phosphorus. It is claimed that a supply of lime is just as essential to the plant, in order that it may form cell walls from starch and sugar, as it
for the formation of bone in animals. There can be little doubt that a proper balance
The the supply of these important plant nutrients has a de-
cided influence on the nature of the crop produced. Fiach one has its own particular work to do, and the absence or deficiency of any one of them will cause the death or
the incomplete development of the plant. Added to the fact that these substances are absolutely essential, we find that they are absorbed during the early stages of growth, and that with cereals this gathering perion is may, a plant cannot make a normal development and
mature its seed unless it has a full supply of a wellmallinced diet placed within its reach.
R. HARCOURT,

Ontario Agricultural College.

## The Farmer's Wood-lot

Editor
"The Farmer's Advocate "':
there is considerable agitation on at presAs there is considerable agitation on at pres-
ent regarding reforestation, I thought that I would pen a few suggestions in connection with the subject for the consideration of those that are interested in the subject.
Now, there are is few points in connection with this subject that might be taken up and conwidered as the various municipalities. The Provincial as well as the Dominin avernment are now spending considerable money, and justly so, to farmer's wood-lot. A nursery has already been established at the Ontario Agricultural College, nual Dominion convention was held at Ottawa a short time ago to discuss the best means to adopt to further the work. All those are right and thing in the way of granting the township municipalities the power of exempting the wood-lots that are not pastured from taxation? This, in
my opinion, would encourage the farmer to be my opinion, would encourage the farmer to be
more interested in the project of reforestation, But as it is at present, the timber lands are being taxed at a higher rate than the cleared land. This, of course, has a tendency to cause the farmer to make haste to get rid of his bush. IT at some of the Institute meetings, but some have objected to this on the ground that it should not he extended to parties holding timbered lots for speculation, but acknowledged that it would be a
great benefit to the farmer who is holding his imber for fire-wood only, or general use on the arm. Now, there is another side to this quesion, and a great many lose sight of it, or have for fuel ; that is, the influence the timber lands have on the growing crops and climate. This, in my opinion, is of vital importance, and should could not do better than pass an act so that all unpastured land in timber, owned by farmers, may be or should be exempted from taxes. This would be quite an inducement for farmers to take agricultural papers will take up the question and give the idea wide circulation.
Bruce Co., Ont. A. E. Sherrington. Wm. Lees, Percy, Sask : .. ' The Farmer's Ad-

How Shall we Apply Farmyard Manure? It still remains a very practical question for the ngriculturist to decide, whether the farmyard manure
should be applied to the fielde in winter while in the green state, the fields thus deriving the full benefit of me manure, or whether it should be applied in the sumsubject to an extensive loss by fermentadion the yarc great moment, which all manure undergoes in the heap and the direct loss by leaking which has dralned hrom The yard. Our manure is applied to the land we in
tend for hoed crops-a good llberal dressing-and in an plied throughout the stabling season just as it is made We have practiced this system of handling our manure Cor a number of years, and for many reasons we would not adopt a different system. By the application of
farmyard manure we are in one way able to bulld farmyard manure we are in one way able to bulld u
the store of fertility that our farms have been deplote of by the primitive methods of cultivation of the ploneer and to supply the constant drain by the crops we are ply manure intelligently, it is necessary that he under stand the elements that constitute this by-product, and the chemical changes these elements undergo before the
manure is of its greatest value to the soill and at what manure is of its greatest value to the sofll, and at what times and under what conditions manure loses the great-
est amount of its most valuable ingredients. By applying while green throughout the stabling season, I claim we offset many detrimental effects that would surely follow were it allowed to accumulate in a pile, and often
we find this pile under the eave of a large barn-which we find this pile under the eave of a large barn-which On the soil upon which manure has been applied in winter, we find it very easy to prepare a deap, mellow
seed-bed, containing abundance of moisture, Seed-bed, containing abundance of molisture, and a large
amount of available plant food in soluble form. Such conditions as these are very favorable to the growth of plants. Seeds germinate more quickly, and the plants, owing to their early growth, can endure drouth better
By applying manure while in the green state, a larger percentage of the liquid excrement is saved and applied to the land, and as the liquid excrement contains the most important ingredients, such as broken-down animal tissues, slight traces of phosphoric acid and more nitrogen and potash than the solid excrement, it is very
important that it should all be saved as far as pos sible, and right here winter manuring very strongly recommends itself.
When manure is placed in a heap, let it be ever so is always accompanied by a loss of nitrogen, in the form of ammonia. Bacteria are constantly at work in a manure heap, and while at first they aid the process all soluble, extracting the oxygen, and the ammonia which contains a great deal of nitrogen, passes onf. shall not enter on a full liscussion of the process o
nitrification and denitrification as it oes on in the nitrification and denitrification as it goes on in
manure pile. Another advantage that should appeal manure pile. Another advantage that should appeal
every farmer is the great saving of tlme, and, conse every farmer is the great saving of thene, that this work can be done better in winter, when we are not so rushed as in seed time-a greater area can be covered, and
covered more evenly, than it could be with the same manure after it has remained in the farmyard all summer. By dropping the manure from the litter-carrier on the spreader in fall and spring, and on the sleigh if
winter, while the snow is deep, one handiling is saved and the manure is always out of the way; and if this advantage were all, it would be worth something. When applying it in winter, I would strongly advise preading the manure on the snow instead of putting it in piles. When it is in piles there is sure to bo $n$ loss
from fermentation, and then the good ingredients of the manure will leach through, and the field will be unevenly fertilized. From manure heaps, where fermenta-
tion is extremely rapld, large quantities of ammonia tion is extremely rapld, large quantities of ammonia
being evolved, carrying with it mueh of the valuable nitrogen ; afterwards this manure presents a scorched appearance, and is practically worthless. If is true that green manure contains a large proportion of un-
available plant-food, but if it has been properly cared
 ior, bind contghivafintile 1llouidd Sexilablo plant food for: the present requirements of the crop, while the remainder will graduall ferment in the soil, and bocome available for the succeeding cropas a date, the eeminont authority, Prof. R. Wartington, deduces the following conclusion: "The originel yoiding of the anmal product of the manure heap. which the farmor carrlee to hie flelds. In the whole process, trom the stable, to the Aeld, the loss is going on. This lose is falling on the most valu a residue of comparatively inert matter." So to conclude, so far as economy of plant food, is concerne9 bility of hauling manure es soon as practicable, of
Dundas GO. OnA HAMIMTOY

How Best to Apply Mavure.
$\qquad$ I have been interested in the discussy on on tais question-one not very easy to solve. Your coric respondent, Mr. Lavson, in Feo. 22nd issue, crits important point in manuring Most farmers can arrange to manure for corn, potatoes and roots satisfactorily as the season for planting same is of manure in and if we can prevent fermentation no mistake ; but Mr. Thompson was writing. of manuring for spring cereals, and for these manure. If we hapl and put inp hapasy if heansijrare not the frost in spring and prevent early manuring : although, if manure was intended for fieldtopurposed to be sown last in our seeding operations;
it might be successfuly we ware generally tmost it might he successisul Mas we are to be matworkedsin with cultivator or disk, must be spread with spreader, unless straw thas previously beeny cut,
which is not practiced on every farmi My exe phich is not practiced on every farm. My exte manure spreader as soon as cenditions will allow. I have worked it when theiground was frozen, but it is very hard on machine. II keep my hoger
cattle and horse manure separaten as It think cattle and horse manure separaten use In inink waste to apply such rich manuresfor roots, which require a heavy coat, I, apply hog manura for
barley, to be seeded, at the rate ol three to six barley, to be iseeded, at, the rate of three, to six in with cultivator, and sow first thing in siring. in with cultivator, and sow first thing in $\mathrm{mpring}_{0}$
Simcoe Co., Ont.

## Stave Silo Satisfectoiy.

Editor ". The Farmer's Advocate".
I noticed a paragraph in one of the Jenuery
numbers, recently, condemning the many ways. I thought that some intending if you might be discouraged by this account, so space in your valuable dajer, $\mathbf{I}$ will give mueh experience. The fault that the Norfork far mer hoops atcention to were : silos blowing down. round the outside ind summer, ensilage spoiling may say I have had a stave sill ( 15 ft . by $26{ }^{\prime}$ t for seven years, and never had anything but thie very best results. I built a very 1 ight frame did away with any danger of blowing, atw this while the staves shhink. in ssummer when fi is
empty, they swell and become tight when with ensilage. As to the ensilage spolling , find that if it is properly mixed and well tranped
while filling, it will keep perfectly. The stavest while flling, it will keep perfectly. The staves end of seven years, they do not show the least
sign of decay.
SUBSORIBER.


Formanent Pasture for Outlying Fields．

Editor ．．The Farmer＇s Advocate＂： ＂The Farmer＇s Advocate＂of the 15th ult，on rotation of crops，and heartily endorse the sys． tems for the general farmer．There may be rea－ the whole farm ；say an outlying portion，with a running stream，would be suitable for pasture． This might be seeded with perennial grasses and clovers suitable for pasture，which should be re－
newed every few years，by plowing shallow in newed every few years，by plowing shallow in
spating，rolling and harrowing，followed by culti－ vating and harrowing at intervals of about two weeks，until July，then reseed with perennial
grasses and clovers，without a nurse crop The orchard might be seeded with alfalfa，and
plowed shallow every third year，thoroughly plowed shallow every third year，thoroughly culti－ vated until July and then reseeded with alfalfa，
about 12 pounds per acre，without about 12 pounds per acre，without a nurse crop．
A few acces of alralfa，fed as a soilting crop twice 30 dairy cows from sufficient for a herd of 20 to 30 dairy cows from June 1st until October．The chuard in the shape of farmyard

TNote－The pesture idea is an RENNIE， S but alfalfa in an orchard is better for the land deprives them of needed moisture，which is just as essential for their well－being as is plant just and which no amount of manuring can wholly

English and Camadian Rotations．

## Editor The Farmer＇s Advocate

Referring to the editorial on crop rotation，in your which I have found very interesting during a subject years in which I have turned my attention to agricul tural matters，and more particularly so during my stay in England last winter．In that country，conservative as they may be in regard to the adoption of anything rotation，necessitated by inter－cropping and intense cul tivation，and，except in certain districts，where the proportion of arable land is constderable，the bare sum－ mer－2allow wheat has become a much less profitable trop than it was formerly，and its place in the various systems of rotation has largely been taken up by potatoes，and to a lesser extent by other＂truck＂commodities．In many cases，whore a farm is let on a long lease，the condi－
thons of teriancy require not only that the farm shall be kept＂in good heart，＂but also that it shall be farmed on the four－course system，one of the courses beling one or another of the many varieties of clover generally
sown with other seeds．The mixture most common the West Midlands is one of red clover and Italian in grass，with sometimes the addition of a small percentage I some other variety of clover．The whole is gener－ ally spoken of as＂＂seeds，＂and is usually sown at the 24 lbs．per acre．This mixture gives，excellent results， cattle，and also makes splendid suitable for horses or or sheop．
A good system of rotation does not necessitate one should strictly adhere to the same order of crops． round husbandmen I．，one of the most successful all round husbandmen I have ever met，had 40 acres of
roots，in three fields，taken off in the fall the land plowed，and three fields of＂seeds＂）he had plowed about the same time．On 12 acres of root ground and about 28 acres of＂seeds＂．he put barley， and the balance all went into oats．This year he will
follow the barley with oats in two of the fields the third will probably get a light coat of manure，and give a crop of potatoes and＂t truck，＂＂such as carrots． and，perhaps，white table turnips，the latter sown broad－
cast．An alternative in the case of one of the fiellds cast．An alternative in the case of one of the fields
spoken of as having been in with roots，is to seed down when sowing the barley．What follows the oats is a
matter of expediency．Two of the fields will probably be asked for a crop of barley，and so be seeded down lowed here will have been：Seeds（cut one year and pastured one year）．1，grain crops；（2，roots ；3，oats 4．barley，and seeds again．The third field may carry a crop of winter beans before it has another crop of
cereals and is seeded down．Though，of course，the conditions here are somewhat different，I consider that it would be vastly to our advantage to definitely adopt ome system on the same well－established principle．In ar too many cases there is have been eropped with oats and barley，roots，barley and oats，right ahead for seven and even nine years， with only the ald of a couple of light dressings of ma－ nure．Nothing but a clay soll could stand it and give
a crop．There is，of course，an almost entire absence of humus，and to plow there is no easy task for man or horse．Such land，more than any other，needs clover． The great trouble is on a farm of，say，one hundred acres，to arrange a system of rotation in such a man－ ner as to produce a balanced crop year by year，for one
must have pretty nearly the same proportlon of each Ind of crop each year．
size．the following table will show how the crops may hoe crops，grain and＂seods．＂which would keep the and clean and in good heart．A hoe crop stands，of mer－fallow，one may either have a the case of a sum－ in a crop of rye in the green state ：

thatmy Untitill数期虽 Hintill \＃umbll 这：

Reading across this table you get the crops columns you find each column gives a crop for one th the years，allowing a hoe crop each year－two fields eac and pasture．Whilst there are four summer－fallow，hay the six years，one of which must be followed hy whon nd clover；or，in place of summer－fallowing，one may put in barley and seed down．Obviously，the land is in better shape at the end of the sixth year than at
the commencement of the first；at all events，I would not fear to rent a farm on a long lease to ho followed such a scheme of rotation．
We have for a good，word for＂The Farmer＇s Advocate．＂
Parmer and has his on thace in good line who is a successful is，too．When he came here some six or seven years ago he was a good enough mechanic，but did not know
（so I am told）the first thing about farming，but from the start he has＂farmed by about farming，but from success．moon strictly alone），thus he has attained to

Lucerne in New Jersey．
We give below part of the summary of con－
clusions in a recent bulletin on alfalfa by the Now Jersey Experiment Station．The findings of this the Maritime Province readers，particularly those pointers relating to culture and fertilizing：
Alfalfa enriches the soil in nitrogen from bac－ teria inhabiting tubercles on roots．
farage plants and mill feeds，alfalfa of other more protein than any other fodder，and，there fore，can be used in a ration to take the place， Large yields of preen in protein． Large yields of green forage or hay can be
secured－sixteen to twenty－six tons of the former and three to six and a half tons of the latter，per
acre． acre．it is permanent，a well－established fer ducing good crops for several years． A well－prepared seed－bed ensures a o the young alfalfa plants． A liberal application of lime neutralizes acids and helps in the retention of moisture．
Alfalfa responds readily to an application
nineral fertilizers，phosphoric acid and potash To inoculate new fields，apply soil fro established field，or treat the seed with preparad－ From feeding experiments it was concluded alfalfa hay is worth $\$ 16.50$ to feed with corn， silage，and if the cost of production is $\$ 6.00$ corn ton，and an average of four tons per acre is se－ cure，the net gain per acre a season will be $\$ 42$ ．
The result of this experiment closely with results from：similar experiments con－ ducted by the Experiment Station． chased feeds，gave an average net gay versus pur－ per cont．and 27.0 per cent．，respectively，in milk
and butter，from the alfalfa ration．

## Manuring in P．E．Island．

## Editor＂The Farmer＇s Advocate＂

greater part，is a red，Eandy Ioam island，for the cultivated and fairly rich，makes the Island an ideal spot for agriculture．It was originally cov ered by great forests of beech，birch and maple， but by the steady stroke of the hardy settler＇s axe these are reduced to mere groves，and a great wood．What the Island most needs，instead of grow bountiful crops is plonty of in order to this can be obtained from differen mance，an ing to its being all surrounded by water， quantities of seaweed are annually washed on it banks，which makes an excellent fertilizer．The decayed oyster beds，containing from five to wenty feet of shells，are also another great source of wealth P．E．Island farmers are beginning more and more to see the advisability of feeding all the ing it to the land in the on the farm，and return－ ing it to the land in the shape of manure．Some $t$ original fertility，by selling the the soil of of their grain and hay．This can be carried part or a time，but the soil will ultimately fail unless he ingredients carried away by the crops are re tored．The importance of returning as much as lossible to the soil in the shape of manure，can－ or at all be questioned，and it is very necessary or all farmers to rightly use this fertilizer．With－ out manure，farming could not at all be carried ome so exhausted that it would not pay to crop But some farmers say it does not pay to crop grain and hay to cattle；that if we cay to feed
＂narket price to the
ne we feed at a loss．And yet，these farmers that ced all they raise，either for the production of hecause the land is kent in successful ones，simply rons can be produced much more cheaply and Air and water are both necessary to the proper eeping of manure．If it is allowed to get too valuable parts escapes into the air．the most ratuable parts escapes into the air．The tem－
lerature should not exceed 80 degrees $F$ ．The
excessive heating xcessive heating may be prevented by allowing Lock to trample over it，or by adding water．
Horse manure is the most inclined to heat Horse manure is the most inclined to heat，and
if left in a pile by itself will very soon lessen its
weight and walut weight and value．The best way is to mix all different kinds of manure together，and in this
way it can be better preserved Way it can be better preserved．Some farmers
keep their manure in sheds；this is the best
way，if the heation way，if the heating process can be controlled
properly．Another way of wasting manure is by
allowiny， thowing excessive supplies of water to wash out the very essence of it．This is most liable to of spreading mamure on the fields ine practice weather ronditions．It Itiand on account of the There are not many manure spreadevs here yet，
the work theing ching mene

## How about those new subscribers you were going to send us this wint

 With the sugarmaking wow ？ at hand，you are apt to nowerlook and spring close and bustle of the next ferw weeks．Now is thetime to get them，hefore they are ．．too busy to
lie e bothered＂．Scme．hefore they are＂．too busy to $r$ good intentions，we will now daily expect to e some excollent a greod－sized list．We still e some excollent premiums which we give
return for sonding new name will Knife is a winner．It sells regularly our premium lar，but we are giving it for only one new dol－
ceription．Better ket one while they last．Don＇t
mitt it nef ny longer

Percoletion es Applied to Manure. Editor
Very few realize the loss that is annually cruing from not making the most of the manur When to apply it so as to avoid this waste, has
been ably set forth both by II. B. S., page 82 been ably set forth both by II. B. S., page
issue Jan. 18th, 1906, of ' The Farmer's Ad issue Jan. 18th, 1906, of "' The Farmer's Advo
cate," and likewise by Mr. John Lawson, in issue of 22nd of Feb. I should say that the latter's system is about perfect. There is one thing that system is abould remember, which is : No matter how much loss there may be from either the escape o the gases or by percolation in the barnyard, the expense of hauling is practically the same. There is so with manure when it is piled, or rather wheeled out into the barnyard, and exposed to the sun, rain and snow. We know that there is a loss; just how much we cannot say, but always
some, and sometimes considerable. if we really knew how much loss there was, I am sure so many would not allow it to continue. should find one side of your manure of rain, you should find one side of your manure washed away,
equal to one-tenth of the whole, it would surprise you, and if this occurred arain would surprise you, and if this occurred again, and every rain
that came took another slice off, you would, I think, take immediate steps to prevent it. For the manure represents largely the profits of your winter's work, perhaps in some cases all, and no
small profit is it, either. Now, if the loss occurred in the way I have mentioned it would be much better, for one would have that much less
work hauling. It is for this reason that, if by giving a way one-fourth of your manure, the remaining three-fourths contained as much strength as the whole, you would be money in pocket. Not
nany farmers would think of selling their manure, not even a part of it, who allow it to be
lost in other ways. As I said before, it is difflcult to estimate the loss, but am safe in saying olation alone. That you may better understand how this comes about, I will take you into the laboratory of any up-to-date drug store, that you
may see how the medicinal strength is extracted may see how the medicinal strength is extracted
from roots, herbs, etc. You will notice a glass affair resembling a funnel, only not so tapering,
exceptt near the bottom. The one in the bottle, except near the bottom. The one in the bottle,
we will suppose, contains ground aconite-root. Now, the medicinal properties of aconite are only
soluble in alcohol, so this is poured on, sufficient o saturate it. If it were stable manure we wished to get the strength from, we would put on
water instead, as kind Providence has made the ater instead, as kind Providence has made the
vailable properties of manure plant-life soluble in water. Now, to get the strength out of this aconite we simply pour on more alcohol, which
forces out the first alcohol put on, and that now forces out the first alcohol put on, and that now
contains the medicinal part of the root. Now the
first that comes out is carefully preserved, as one
drop of this is worth, maybe, twenty drops of drop of this is worth, maybe, twenty drops of
what comes off a little later. Now, knowing this, ou will better understand what is going on with
he manure pile out there. It comes from the stable saturated with liquids (or should be), and is piled up in uncertain depths, depending on the
room there is and the determination of the worker not to spread it too much. As it is not an easy matter wheeling up hill, the manure pile does not usually get very high. Now, this manure pile
is one large percolator, and all we have to do to get the soluble strength from it is to pour water, and this virtually happens every time it rains. Now, if your manure was saturated with quids when taken from the stable, as it should after deducting what passes off in evaporation, Torces out just that much soluble matter from that manure, and, as in the case of the aconite, he very best is that which comes off first. I liquid, the very essence of that manure, and so hittle is this valued by many that a ditch, or What answers to that, is made to carry it away. your manure pile, you will never know how much is lost in this way, so do not go away with the In pression that all that is lost is what you see. In some cases you may see very little. You can
only judge what is lost by what goes on top. If you want a pailful of that concentrated liquid manure, all you have to do is to put a pailful of this is what occurs after every rain that is more than sufficient to stimulate that portion on top Chat may be dry. You may ask am I sure that the water put on top does not get through with-
out loss in this way? We will go back to the aconite once more, and find that when we cease pouring on liquids on top then it ceases to drip below, and when we pour more on it immediately
begins agdin. That it is not the liquid we put begins agdin. That it is not the liquid we put
on after it is once saturated that comes off, but that this is forcing the other before it, is easily proven. In case of the aconite, we saturate it with alcohol and pour on the prescribed quantity.
Now, to get this alcohol all out, we have simply to pour on water. When we have reason to believe all the alcohol is out, we can easily tell by applying a lighted match, because water will not
burn, you know. Now, there is something more about the rain and snow that may fall on your uncovered manure pile that you have probably never thought of, it is this: Except what passes off in evaporation, every ounce of it
over and above what has been sufficient to go to the bottom of that pile has to be taken out along with the manure, making that much extra labor for more than nothing. That pail of water
you thoughtlessly threw on that manure has not only to be taken to the field, but has forced out that much of the very best of it. If this percolation was allowed to continue, I would not go
so far as to say that your manure would be of so far as to say that your manure would be of
no value, but not for a time at any rate, and then
possibly not worth the drawing. It very seldom reaches this stage, though sometimes it may You must have noticed, when drawing out manure than has is light and dry. Perhapts, like myself, you have consoled yoursell with the thought that the strength from this will be down below.
It has gone below, it is true, but in doing so has It has gone below, it is true, but which in turn has done the same, untill it hets got down to the bottom and out. How much good manure has bee
lost by surface draining, and disappeared in soaklost by surface draining, and diseppeared known. I
age, in many a barnyard, will never be know it, say, averaged one-ifth of the manure thus exposed, what a sum it would be 1. In some casey cate," and a half a dozen more good papers, and still have some to the good; or, if it had been properly cared for, think of the extra hay and the bushels of grain and the pounds of butter
there might have been. If you cennot reep the there might have been. If you cannot keep the at once, at least pile up as you would build stack, and the deeper the better, packing it by
tramping of horses or other stock, to prevent fertramping of horses or other stock, to prevent
mentation and escape of ammonia.
G.A. DEADMAN.

## Handy Fence-post Puller.

For a handy device to pull old fence posts out of the ground, find a crotelfed-tree limb or fork
like the letter Y, about 3 feet long. Lean the

fork against the post; loop log chain around the post at the ground, then up the post, through
the fork; hitch team to other end of chain, and you have a lifting power here that will pull any post as fast as you can hitch to it. $-[\mathcal{N}$. W. Coole

Byron Newman, Spencerville, Ont., writes: I am pleased to inform you that I highyl appreciate the educational irfuuences of the "Warmer's
Advocate and Home Magazine." I believe every department to be doing noble work. I wish to thank the writer of the Quiet Hour Department for many helpful things written," but especially for

## Varieties and Kinds of Farm Crops.

 0
 and Whito Wonder; Corn, white Cap Yellow Dent and
Compton's Early; mangels, Evanis Mammoth Sawlor and Giant Yellow; turnips, Purple Top, Mammoth, and Giant Yellow; ; turnips, Purple Top, Mammoth,
Buckbee and Grand; carrots, Victoria Long Red, and Sutton's Matchless White; potatoes, Rural New Yorker, American Wonder and Early Puritan. Seed used per
acre: Wheat, it bushels; oats, $1 \ddagger$ bushels; barley
 lbs.; turnips, 2 libs.; carrots, 1 It lbs.; potatoes, 10 bush-
els. Varieties of oats and barley sown mixed are common six-rowed barley and Siberian oats. Other mix-
tures are of wheat, oats and barley. Mixed grains give tures are of wheat, oats and barrey. Wed do not get as
larger yields than single varieties. We do
good catches of grass seeds with mixed varieties as good catches of grass seeds with mixed varieties as
with a single kind of grain. Crops for summer feeding are peas and oats, clover and corn. Grasses for seed-
ing down are red clover (small), timothy and alsike,
sowing from 10 to 12 lbs. per acre. Lucerne is very ROBT, McKAY, GLENGARRX.- Wheat, Red Fife and
White Fife, 2 bushels per acre. Oats, Sent Actlon and White Fife, 2 bushels per acre. Oats, Sent Action and
Banner, 3 bush. Barley, chiefly Mandscheuri, 2 bush. Feas, a complete failure; farmers have quit trying to
crow them. Corn, Compton's Early, Leaming and Sellow Dent, 25 pounds per acre. Owing to the scarcity
of farm help, roots are not grown to any extent, and of farm help, roots are not grown to any extent, and
the farmers who do grow them mostly plant such varithe farmers who do grow them mostly plant such vari-
cties as the Improved Yurple-top turnip, the Short White aties as the Improved Purple-top turnilp, the Short White
carrot, and the Long Red Mammoth Mangel. I am
unable to five you the quantity of seed used per acro unable to give you the quantity of seed used per acm
in the root class. Potatoes were a complete failure in the root class. Potatoes were a complete failure
in this section in 1908 and 1904, owing to rot, so they had to be brought from other places in car lots, and it was not a case of getting varieties of chorce, but takking
what we could get. As this mectlon is adapted for
crops suitable for feeding purposes. Oate and barley are the two princtpal grain crops, and thay aro alway
sown singly. Lucerne is not grown at all, but clover is grown very extensively. The greesee and clover used for seeding down are timothy, red elover and al sike, and the quantity used per acre is abour and at-
containing 5 parts timothy, containing 5
parts alsike. parts timothy, 8 parts red clover, and
Summer feeding is rarely parts alsike. Summer feeding is rarely Indulged is
and the few that do so feed meal until the corn er matured enough to use.
C. R. GIES, WATERLOO.-In thls section the and the American Banner. There is no spring wheat grown. The chlef varieties of barley grown are the
common six-rowed, the Black Hulless and the Haidscheuri: Peas are rarely grown, and the only variety
found in this section is the Golden Vine. Con grown only for ensilage ; the chiof varieties are the Leaming and the Whitte Cap Yellow Dent, The Mammoth Long Red and the Yellow Intermediate are the favored varieties are the Impels. In turnips, the mont
Hartley, Hartley's Bronze Top. Carrots are rarely grown, but
when they are grown the Giant Shot whe when they are grown the Gliant Short White carrot is
the favored variety. The two most faved verlet the favored variety. The two most, fevored varietios
of potatoes grown in this section are the Eimplie State and the Rural Now Yorker. On are average the follow ing amount of seed is sown to the acre: Oats, 60
lbs.; barley, $70 \mathrm{lbs} . ;$ peas, 90 lhb. corn ose lbs.; barley, 70 lbse; peas, 90 libe. ccern, 28 lbas.; mand
gels, 8 lbs.; potatoes, 800 lbs. The only mixture grawn geis, 8 libs.; potatoes, 800 lbs . The only mixture grown
is that composed of Daubeney oats and Irandchourt
berley barley. It has been my experience that it to mor prontable to sow mixtures of grain than it is to sow the varlous lidnds singly.
clover and
grase seods kind of grain alone. In thil meetlon thare als with oup sown for summer foeding. The crasee the colver nown
for seeding down with are timothy and the common red
clover in about 12 lbs . meed is
is
not
grown in thia section
W. Re Moklllican, PRFiSCOTT,-For several years past many of the farmers in this district have quit growing whent, but those who stin Erow it seem seyeral other kinds are grown. Oats are largely growt and many varieties used; White Siberian and Banner seeln to lead, but many sow the common white Cana dian oat. The common six-rowed bartey is 'the kind mostly, used, but the Mandscheuri is a great favorite where issed. Peas are very seldom grown, as they have beens a fallure for some years. Among the varieties of corn most successfully grown and giving the best result in theeding Compton's Farly, Saltzer's North Dakota, Longfellow and the early Dent varieties lead. Mangels, turnips and carrots are not largely grown. Potatoes o well in most places in this district, and of varieties grown, Legion Blush, White Star, American Wonder, are per more, 2 of barley, About is bushels wheat is sown has given good results, hut most ons of potatoes bushels per acre. Oats and barley are seldom sown
together, butsbiturn a smalt cquantuty yb fbeds is sown with oots. Mixture seems to be proftable, but is mor imealt to harvest, and not so good to seed down with ariety. Very little is sown for summer feeding, bu corn is sometimes used; timothy is largely feeding, but in seeding, but clover is gaining in popular favor, and is now
sown with timothy, about ' 4 lbs. to 10 or 12 of timothy own with timothy, about '4 lbs. to 10 or 12 of timothy, cured by reversing the-amounts. Lucerne is not be sewn
here. here.

FRANK SUITOR, KENT-Goose wheat is the general cropper here, as it yields better and is less liable to blight ; sown at rate ol $1+$ buehels to the acre. Red Fife is also considered good : 14 bushels to an acre.
The American white Banner is the commonest oat sown; 21 bushels to the acre. Black Tartarian are grown here, giving good results ; $2 \ddagger$ bushels to the acre. White from rist are dom well itean, strong straw, and tree Canadian th the leader to the sere. The six-rowed a good ylelder. Mensury is liked mandscheuri is also bushels to the ecr. Golden Vine are also Reid's Yellow Dent corn, Early Dent, and White Cap. Fint vearietios Cris, Whit Early, Eight-rowed Canadian Yellow and whiteron 3 quarts to an acre. Mangels, Yellow Giant, halsfor stock ; 10 lbs , to acre. Of sugar beets, thousand of tons are grown here for the Wallaceburg and Marine City, Mich., factories, and are displacing the growing corn. Seed comes from Europe; 15 lbs . to the acre.
Carrots, Glant White for field and stock ; Guerande, half-long, for table; 4 lbs. to the acre. Puerande,
Crown Jewel, Six Weeks (for eafly), Sir Walter Potoes, and Rural New Yorker; 13 bushels to the acre. Mixed
and grain, Mandscheuri barley and Ligowo oats, sown one
bushel of each to the acre. Oats, barley, goose wheat and flax also give good satisfaction, and increases the yield at least one-quarter. I decidedly would say no to and grass seeds with mixed grains?" One kind preLerred. Lucerne, rye and corn are grown for summer
feeding. Tlmothy, 4 libs.; red clover, 10 lbs., is sown ooding. Timothy, 4 lbs.; red clover, 10 lbs., is sown
when understown with.; Lucerne ts the coming feew 15 lus. per acre.
G. w. COATSWORTH, ESSEX.-There is very littl spring wheat grown in this section. Oats-The Banner
and Black Tartarian. Barley-Mandscheuri and Can dian slx-rowed. Corn-White Cap Yellow Dent and minproved Leeming for dents; the White and Yellow
Fint used for late planting. Peas are not grown to any great extent, as the pea weevil or bug is very
bad in thts section. We have to northern counties. The small blue pea is used generally. Mangels-The Mammoth Long Red and Yellow
Globe, for feeding purposes. Turnips-Not many grown, as a small fly or worm eats the leaves. PotatoesFor early, the Bovee and Early Ohio ; for PotatoesAmerican Wonder, Elephant and Rural New Yorker.
The amount of seed used per barley, from 2 to $2 \ddagger$ bushels; corn, about 7 lbs and
ter acre; potatoes, from 7 to 9 bushels per acre. There is not much mixed grains sown here, as the diference in
ripening is so great that we prefer sowing them separately; if oats and barley are prefer sown togeng them
barley will ripen sooner than the barley will ripen sooner than oats, and is likely to fall
and timothy and some alsike are used for meadows. cheuri barley and Daubeney oats, it bushel of ba and timothy and some alsike are used for meadows. 1f oats. A mixture of peas, oats, barley and
From 10 to 12 lbs. per acre for clover, and 5 to 6 for gives great results in a dry season, but in a mois timothy and alaike. per acre for clover, and 5 to 6 for gives great results in a dry season, but in a moist
though it is not dieplacing the into use, al- son go down and are hard to harvest, and gene though it if not displacing the red clover to any great extent, but where a good seeding has been secured it is
givling good ratisfaction. Those who have it are well
pieased with it
A. W. PARTRIDGE, stmcoe.-Spring wheat-White Fife and Wild Goose ; sow from 1 it to 1 it bushels pe Century and Sensation, Siberian, Bavarian, Twentiet ley-Mandscheuri and common six-rowed : 14 to 2 bush els. Corn-Compton's Early, Saltzer's North Dakota, Longfellow and Leaming ; from 1 to $1 \$$ pecks. Peas Golden Vine and Ontario Vine ; $2 \frac{1}{2}$ bushels. MangelsYellow Intermediate and Mammoth Long Red : sow from 2 to 3 lbs. per acre. Turnips-Sutton's Champion and Kangaroo ; sow from \& to 1 lb . per acre, Carrots are Wonder, Late Beauty ; sow from 8 to 10 bushels per acre. Oats and barley are seldom sown together. Oats nd spring wheat have given good results ; sow 11 cround, mate ghe peck wheat per acre. This, when often mired. Bow and peas are and cut with the hinder. bushel oats per acre, and cut with peestars and there is sufficient wet to drown the peac thestor. In bll thetr place. Some sow oats, peas, harley ont will Wheat with good results. If the grain tey and goose for feeding hogs or cattle, I prefer a mixture. For used ing with grass or clover seeds, a mixture of oats and either barley or spring wheat is, I think, as good oats alone, but spring or winter wheat or barley should If possible, be used for this purpose. Very little summer feeding is done here. A mixture of peas and oats clover, one pound alsike and two po pounds red timothy per acre is considered good seeding here. This will cut well, elther one or two seasons, as desired. Lucerne is very little grown here. It is not displacing
red clover to any extent.
w. b. roberts, elgin.-Very little spring whea Arown here ; I do not know of any this year. Oatsthe best and grown here is the till last year. Corn-Cionpt, Peas-Very few grown Nose. I think the Compton's Nangels-Yellow Intermediate and alo both good. Very few sugar bete, belles are varieties for feed. Turnips grown are Swedes, Danish Purple Top. Carrots-Very few grown, as laboriety scarce to hoe them ; I have not grown any for years State for Early New lorker for early potatoos; Empire Spring wheat, 2 bushels; oats, from 14 to 2 bushe if seeding with oats, $1 \frac{1}{4}$ best; barley, from 1ishels els ; corn a bushel fith barley, 14 best ; peas, 2 bush drills: mangels, 4 to 5 lbs ; sugarel to beets and turnips the same ; carrots, 2 lbs .; potatoes, in hills, about 10 and Mandscheuri barley are 20 to 25 bushels. Banner oats gether ; better still, Daubeney oats and ley. I know of no other that gives any better satis3 to 5 bushels of barley to bushel of oats, and sate of bushels of mixture per acre. Yes, it pays to sow mixey and oats. I have not found any differonce in barCatches of grass and clover seeds sown with mixed grains or with one kind of grain alone. Very few crops used
in this district for summer feeding ; if any, it is corn. Timothy and red clover and alsike. "About 4 is lbs. of timothy, 7 lbs. of red clover and 3 lbs. of alsike; sow 12 lbs. of the mixture per acre. Lucerne is not dis-
placing red clover very fast in this district.
N. STEVENSON, PERTH.-Spring Wheat-Wild Goose. Oats - Irish White, Daubeney, $\begin{aligned} & \text { Newmarket, } \\ & \text { Banner and Ligowo. Barley-Mandscheuri, Mensury }\end{aligned}$ Black Japan. Peas-Mummy and Crown. Corn Compton's Early, Huron Dent, Smut Nose. MangelsGolden Tankard, Yellow Intermediate, Glant Yellow East Lothian Burpee's Early, Early Rose, Rural Nown. Potatoestitles of seed sown. Quantitles of seed sown: Oats, it to $2 \frac{1}{2}$ bushels per acre ;
barley, 1 t to $2 ;$ peas, 2 to $2 \ddagger ;$ corn, in drills, for siloing, \& to bushel, for feeding stalks, about double lhat quantity ; mangels, 3 to 4 libs.; turnlps, 1 it to 2
potatoes, 8 to 12 bushels. Mixed grains, Mands-




 reason why it should not do as well; but barley and Very wheat are our tavorite crops for seeding down with. erry little of any kind excepting corn is grown for sumdear. Pasture land can be had reasonably, and and question of does it pay comes in here. Timothy, alsike sown. There is the principal varietles of grasses question, how much seed? ? We sow 10 lbs. of the this red clover seed per acre, cut two crops the next year then plow up again. Those who sow mixed seeds use
all the way from 8 to 12 , and some all the way from 8 to 12, and some as much as 15
lbs. per acre. Lucerne is not grown here to any extent.

JOHN JACKSON, WENTWORTH:-There is prac tically no spring wheat grown in our locality ; if any Improved American ary. Of oats, the Banner and the common six-rowed are frown. Bariey, Mensury and advantage, giving more straw, with good heavy grain. A few years ago alater yleld of peas, were not grown, on account of the exeapt grass weevil. Grass peas for a time did well, but a bight came over them so bad that farmers were forced quit them. For the last two years the round pea has done well, and is free from bugs ; the Golden Vine takes the lead. Corn, for husking, the eight-rowed Yellow Flint and Compton's Early do well ; for ensilage Compton's Early and Red Cob Ensilage. Amount oats, 2 bushels. Mangeals, 2 bushels ; barley, 1 bushels diate, Mammoth Mong Mammoth Yellow Interme Beet, in the order named, inches between rows, about four on the flat, 28 to 30 In carrots, the New White Intermediate do per acre nips, very few grown, land being heavy clay well. Tur the Early Ohio, American W'onder, Sabeau's Elephant, some early kind of crop of grain, Mensury barley with haps a better of oats. Barley, oats and peas is pergrain to be fed ombination. It pays to sow mixed tained per acre. I don't think a mixed feed will be obseed down to grass with. For summer feeding vood to alone for late. cows. Timothy and red clover araty good for dairy sown. Alsike is going out of favor. Five princal grasseas
timothy a good stand. Lucerne do of red clover should give makes the very best of hay when cut very, green, will not do on low-lying land. Don't cut very greon, will
the clover crop to any extent.
A. w. van sickle, brant.-Goose
is about the only spring wheat of any value wheat here. Siberian, American Banner, Sensation and Joanette oats are grown mostly; Sensation are best when sown early. Of barleys, the Mandscheuri and com-
mon six-rowed are grown displacing all other varieties. The Mandscheuri is fast cenerally sown; some are growing the white pea is with good results ; grass peas have provedian blue The Red Glazed or Smut-nose and elght-rowed yellow Yellow Dent and Essex-grown for the silo, White Cap The Mammoth Long Red, Giant Yellow Intermediate and Golden Tankard mangels, Westbury Swede turnip in this locality White Intermediate Carrot are grown No. 2, Empire State and Welcome are leading varieties.
Seed sown per acre, from $1 \frac{1}{2}$ to $2 \frac{1}{\text { bushels ; bring wheat, } 1 \ddagger \text { bushels ; oats, }}$ bushels ; corn, 1 peck ; mangels, 5 bushels ; peas, nips, 2 pounds, ack ; mangels, 5 to 6 pounds; tur
barrots, 3 pounds. Two-rowe
barley and American Banner or Siberian oats are bein sown together. A few are sowing Mandscheuri barley
and Daubeney oats, with oring to above, and ots, with good results. Some add peas
outs : when 6 quarts Goose wheat word oats : when ground, makes good meal. It will way
 think there has been any difficulty getting. I do not clover with a mixed crop, when the getiling is
dition. Rape, corn and feeding : Rape, corn and alfalfa is are grown for summer alsike, alfalfa and timothy are sown for seeding clover,
The amount of seed at and
 Toounds per acre, and 15 to 18 pounds of alfalfa. Lu-
cerne is being grown more year by year. If cut when
about oneeighth in bloom, and properly cured, it is
considered equal in weight to bran

MARCH 22, 1908
H. J. DAyis, oxford. Spring wheat in wut
 costy groun ; beod per acre on good soil, 1, 10 busalis per acrea. Pean have not been grown of la
years to to any great oxtont on account of tho bugs. Las year thare were no bugge, and a larger acreage will be ho best varityty has been the coliden Viue, which is
 per aere. Clorn is being cultivated in a variety
vays. Hul planting is rapilis coming in tavor, on count of oaster and morer thorough cult ivation with the horse hoo. One and one hall pecks per acre when sown
in drulls, one peek when hill sowing is practiced. Manglis aro grown oarrly on every frarm, Intermodiate
 (1) using the common seed drill, gowing about 2tit the. pert




 aritites, the Uncle Sam one ot the bast early varioteses,
nd the the
The


 or lucerne is sown for summer feeding. Lucerne and
red clover and timothy are used for seeding down ; 12 red clover and timothy are used or beding down; 12
to 15 Ibe. Lucerna clover is on some tarme an un-
 ${ }_{c}^{t}$ will come to she
w. L. dixon, grey.-In this part of South grey,

 Bolden Vino, Prussian Blue and Crown. Corn, Salt L.oog Red and Danish Sugar Beet. Potatoes, Empire State, Early Rose, Whito Elephant. Turripe, Bang. Brone Top. Most of tho tarmers sow about 2 bushels por acre of wheat, oats, barley and peas. When the
peas are large, more seed tis required. Some reome
 vats on about 1 z arese, trom 24 pounds ot hand.golectod
 to pounds per acre. For mixtures of grain, the Banner or Siberian oatt are sown with Monsury barley.

 tess barley in a wet year, give a better yleld than when
 beter to sow mixtures when the erait in neoded with







 the West. - . .







 faverite. The than formurns, the Yellow Globe is the
Thellow Intermediate in mangels
Tand Danish Tmproved and Royal Giant in sugar beeta, and Danish Mmproved and Royal Giant in sugar beets,
are, I think, the favorites. In Swede turuips, the favorites are the Kangaroo, Rennie's Prize Purple Top,
Rennie's Improved Elephant. In carrots, the shorter varioties are gradually taking the place of the White
Belgian. I think nearly every kind of potato named in the catalogues is grown in this county. One of the
favorites is Burbank's Seedling. In sowing oats and barley for mixed crop, the Banner or Siberian oat and
Mandscheuri barley are sown. two-thirds of oats and one-third of barley, at the rate of $2 t$ bushels per acre
reas and oats are also sown for crop and green fodder about the same proportions being sown at the rate of
2ł bushels per acre. My own experience is that it 2t bushels per acre. My own experience is that it
pays better to sow the crops singly. In seeding with a mixed crop, we do not have as good results, owing
to the thickness of the standing grain smothering and
crowding crowding out the seeding a dairying district, a great variety of crops the rate of $2 \frac{1}{2}$ bushels per acre, and cut green ; peas and oats, as mentioned above ; corn broadcast, at the
rate of three bushels per acre; corn in drills at rate of three bushels per acre; corn in drills, at the
rate of t to More clover is sown with oats, to be pastured off in the fall and then turned down. My own opinion is that from 2 to 4 lbs. of clover per acre should be sown with al the grain crops except peas. Red clover and timothy,
in the proportion of about 9 pounds of clover to 4 of
timothy, and sown at the rate of about 13 pounds to theothy, and sown at. the rate of about 13 pounds sown over $1 \ddagger$ bushels per acre, is the favorite seeding.
In ed for the same amount of red clover in the above mix ture. There is very little lucerne grown, although wha has been sown, if it was gotten over the frrst winte stable manure, has given good results. We hàve grow lucerne for years, mostly in a mixture known as per manent pasture, its permanency consisting in one grass
coming on after another, so that we have the first bite in the spilng fid the fill the thee. We in the spring and about 8 pounds of rape per acre with some of our oats for fall pasture for young cattle and sheep,

## Quebec

CYPRIEN BELANGER, TEMISCOUATA, answers, in Chili. Sow in Cats, Bayner. Potatoes, Prolific of potatoes. Mixed grains are not used. Peas and oats are sown together as a mixture for green feed. Pays best to sow various grains separately. Seed with timothy and
scarcely used.

GILbert Matthews, Argenteull.-Wheat not much sown in this section, as it is a very uncertain crop ; the varieties sown mostly are Early Preston and White Fire, about it bushels to the acre. Oats are sown in great variety ; Banner and Early Siberian which is I think hard to excel : about 3 bushels to the acre as a general rule is sown. Barley does well here ; the Mensury cannot be excelled for quality and quantity ; I find 2 bushels to the acre suffcient. Peas re little sown, as they do not seem suited to this district. Indian twelve-rowed and great quantitiles of Western corn is grown in this section of country. Mangels, turnips, carrots and potatoes are not grown to any great extent, and vary as to variety. The Banner
oats and Mensury barley do very well when sown together, but we are commencing to sow wheat, oats, bar ley, peas and spel anything we have ever tried. I think it pays to do this; but when you are going to seed down a field, by sowing either wheat or barley singly, you got most universally sown for summer feeding ; also small quantities of tares and rape. Timothy seed for grass, and alsike or Vermont for clover, are in preference, and farmers are beginning to see their mistake of sowing
too little of these to the acre ; 1 $\ddagger$ gallons of timothy and 8 to 10 pounds of clover is about right. Lucerne
or allfalfa is just being introduced into these parts, and poople are anxiously awaiting resulto.
W. L. DAVIDSON, PONTIAC, QUE.- - In reference to best paying crops in this section of the Province o
Quebec, I will give my own experience. Varieties-
Wheat, Red and White Fifie, yielding from 20 to 25 bushels per acre; sow of good seed from 6 to 7 pecks
per acre. In barley the varieties I sow are the Men per acre. In barley the varieties 1 sow are the Men-
sury and Duckbill ; the latter is best for mixed grain,
being stiff in the straw will stand better. Seed, from 2 to $2 \frac{1}{\text { b }}$ bushels per acre, according to the condition of soil and time of sowing. In oats, the Banner is
good variety; seed, 8 bushels per acre. Corn for en-
Corer ture well in this section, and also Western Beauty ; new variety, very leafy, ears well, and is good for green
feed. Mangels, Long Red and Yellow Globe pay better feed Mangets, tong, giving much larger. yield.. Turnips,
than sugar beets
Purple Top Swedes are the best variety I have sown,
 ood condition, properly thinned and well cultivated. Carrots, Medium Long White and Hall-iong so many varieties I good crops. which is the best but any wariety may be improved by selection. To select in the feld fout 12 most productive hills is a good plan. g , ged an the most pushels per acre. A sove them to plant as a foundation crop for future years. In miked grifh, Bannef bat' and Duckbil barley ripen faifly well together, of Banner oats, Duckbil barley, paes Sed, 1i bushels oats, 1 bushel barley, 1 peck peas, 1 peck of wheat. The wheat and barleg, having a stin straw, help to keep the crop from lodgling. We generally get as good
catch of clover and grass seed with mixed grains as with one kind of grain alone, wheat excepted. Sumwith one kind of grain alone, whea feats, or vetches, sown early makes good feeding for milgh cows when
pasture fails, as it comes in before corn is sufficiently pasture fails, as it
matured for eutting.

## NEY BRUNSWCICK

3. H. CORMIER GLOUUCESTER.-The best varities wheat are the white Russlan and Red Fire. The evorite are White Banner and Ligowo. The sixoowed barley is the modt favored in this section. Peas, the Prince Albert. Corn, none sown, frost being too frequent. Maugels, the Yellow Globe. Turnips, for table we prefer Swedes, but for cattle use the Purpletop Aberdeen and Yellow Aberdeen. Potatoes the Silver Dollar has been planted with great success, but now the market changes, so we plant White Giant and Snowflake, American Word sow two bushels of wheat por wi we generally plan' 4
 for feeding is oats and peâs. Sbme prefer black tares. It will pay better to sow mixtures than to sow kinds singly. I always get. a better catch of clover and grass seeds with a singla kind orind. We tried lucerne, feeding, oats and tares
but did not succeed.

JOHN FERGUSON, YORK.-The varieties of grain most favored in this section are: of spring wheat, White Fife. Oats, Early Triumph and Bamner. We do not grow much barley: we grow bu wh whe yellow mon small field. Corn, for ensilage, White Cap, yelow
Dent and North Dakote ; for grain, the old Indian yellow (name not known). Mangiele and sugan beets are not much grown here. \& Turnips, Purple top Swede. Carrots, White Intermediates and White Belgian. Pota
toes, Delaware, Ferly Statee ind Gem of Aroostook: toos, Delaware, mart stal quantity of seed useed per acre is : Wheat 1 Thush., oats 2 bush, peas 2 to 8 burkh., corn in hills. 5 to 7 quarts, turnips 2! lbso, carrots, il ibs., potatoes 10 bushels. We do not sow oats and a oats are the most sowing mixtures of grain, peas and oats are the most
satistactory with mo. I hate not tried soming mixtures of grain enough to know if it pays better than sowing each kind singly. I never get as good catches of
clover and grass seeds with the peas and oats imixed aswer with the oats alone, because the peas usually grow very rank, and smother all mmaller plants. For sum-
mer feeding, I prefer peas and oats, fodder corn and mer feeding, I prefer peas and oats, fodder corn and
clover. For seeding down, I use timothy and Peevine or Mammoth Red clover, mixed, and sown at the rate of 4 pounds timothy and 8 pounds clover per acre.
Lucerne has not yot diaplaced clover to any extent in
this section

PRINGE EDWRRD ISLAND.
THOS. S. WAUGH, PRINOE.WThe varieties of whea ostly and White Russian, the latter being best adapted to of ordinary climate, as oats are largely grown, the leading varieties are Banner, oats are largely grown, the leading varietes are Banne
Danish Island, Sensation, and Early Gothland. In the black variety, Tartarian are the most prolific. Two rowed barley of the common variety is sown with oat
and wheat for feeding purposes. Peas only sown oats as a green summer feed. Corn for sown wit fellow generally used. Mangels mostly grown are Mam moth Red and Yellow Globe. Turnips, Haszard's Im proved, largely used for winter feeding. Carrots, White
Intermediate for feeding purposes... Potatoes, Beauty Hebron and Green Mountain, but the staple variety i McIntyre's, a blue potatb, of siuperior keeping qualities The quantity of seed sown per acre is as follows 1it pecks ; mangels, 5 lbs.; turnips, 2 lbs.; carrots 1 to 1t pecks ; mangels, 5 los, turnips, 2 lbs.; carrots, 1
lbs.; potatoes, 8 to 10 bushels. A For sowing together I would profer Early Gothland oats and tworowed, bar ley. In raising grain for feeding purposes, "it pays $t$
sow the various kinds together rather than singly. Yo may not get as good a catch of grass and clover with mixed grain as with one kind of grain alone, for this reason : too much seed is sown per acre, preterititig the
air and sunshine from reaching the grass plant. air and sunshine from reaching the grass plant. give good satisfaction. The grasses commonly used seeding down to hay are timothy, Mhenmoth uste red and alikike, also White xDutch elover. The amount of


Ontario Ixperimental Union Results. Following are the tabulated results of the 1905 exducted all with select lists of various farm crops, con Experimental Une Province by members of the Ontario sarily, that because a certain variety is not mentioned in this list that it is not equal to some that are. For instance, American Banner, one of the most popular varieties of oats in Ontario, is not mentioned here. The results published, however, will give a good general
idea of the relative standing of the varieties mentioned, which in most is not all cases are among our most meritorious sorts, being mainly chosen for experiment perimental Department at the Ontario Agricultural Co lege. The first column in the table gives the rating on the several varieties, embodying a summary of the an consideration in this column, and yield is not the onl consideration in this column. In this column 10 rated in proportion

GRAIN CROPS, FIELD ROOTS AND FODDER CROPS


Mangels (8 tests)
-
Sutton's Mammoth Long Red
Steele-Brigg's Giant Yellow Gilo
100
95

White Feedin
Swede turnips (2 tests)
Sutcons Magnum Bonum ..................................... 100
Hartley's Bronze Top
Kangaroo ...........

White Egg .
Early White Vienna Kohl-rabi
Mastodon White Intermediate .. Bruce's Mammoth Intermediat
Buckbee's New Sugar Parsnip Leaming
White Cap Yellow Dent
85
100

Dwart
Dwart
Bonananza
Comparative
value. 98 98
100
78 78
95 100
68 100
68

100
88

## 100 97

${ }^{97}$ 100
69 100 0 00 100
85
$\qquad$ 100 77

66 | 85 |
| :--- |
| 85 |  $\begin{array}{r}100 \\ 76 \\ \hline 70\end{array}$ mperial Amber . Kichigan Amber

Buda Pesth Buda Pesth
Turkey Red 17 tests)Compton's Early
Salzer's North Da Saizer's North Dakota sts)-


| iberian oats, | 34 |
| :--- | :--- |
| hevalier barley, | 48 |


| iberian oats, | $2 \pi$ |
| :--- | :--- |
| hevalier barley, |  |
| $5 \pi$ |  | Wild goose spring wheat, 22 lbs. per ac. 1

810095
63埗85

kohl-rabi ( 2 tests)
Fall turnips and kohl-rabi ( 2 tests)- ..... 10080
50
Carrots and parsnips (o tests)100
76
40

tests)-
Henderson's Eureka
Fodder corn (7enderson's EurekaDent.85
85

Millet ( 2 tests)

Japanese Panicle
Japanese Barnyard
Hungarian

Grass peas and vetches (8 testg)
Trass Peas
Common Vetches
Hality Vetches
Grass peas and(

THE DAIRY.

## A Nuva Scotia Dairyman's Milk Records.

Although it has been our practice for the past four years to weigh the milk and take semple had not done so during the winter summer, ", to do so during the winter was due to the fack that we had no tester, and could only have the samples tested at our creamery during the summer Last April we began a test, to be followed throughout the whole year, which is, briefly, as
follows: Iollows: On three consecutive days we weigh
the milk of each cov, and take a small sample
and

 dates each month as possibe throuyhout the en-
tire year.
The result tof each test fis recorded shee tse for the purpose, which are similar in for orum
to the onlowing

3
4.32
${ }_{28.13}^{24.63}$
${ }_{22}^{34.89}$

37.50
32.58
28.32
27.51 27.21 creamery or after last is either filled out the 27.21 Each of these monthly returned.
22.35 the end of the year, or such time as is convenient for the month which they represent butter-fa 18.33 amount for each month being transferred to an other sheet similar in form to the one represented
below : 23.16


From the first sheet the totals for each month From the first sheet the totals for each month
are easily obtained, e. g., if a cow, for the three
days tested in June, gave 100 pounds milk days tested in June, gave 100 pounds milk and
3.4 pounds fat, for the month she would give 100 times 30 divided by 3 , or 1,000 pounds milk, and
3.4 times 30 divided by 3 or 34 隹
fat.
33.57 from 6 to the past year our number of cows varied 33.18 from 6 to 10, according to the season, the ma-
jority being Guernsey grades. For ten months 28.47 from April 1 st to January 31st, we have estims, latter part of March s dropping their calves the 35.65 latter part of March or the beginning of April, .7 age, gave us 220 pounds, and the best 260 of
${ }_{16.64}^{18.04}$ While we cannot yet give actual figures for the 14.54 froduction of those dropping their calves in the 34.53 calved in the considerably better than those that 27.43 a test is small 13.75 one being only, that required to make the last 24.56 Sults, and taking a sample. milk, recording the re23.18 year, the time required to make out a sheet and
15.62 record the previous yo 15.62 all may be done in one or two evenings 17.48 We think that keening a daily milk record 12.94 would result in largely increased yields from a
(1.44
given herd, especially when practiced for a number 11.44 of years. Thecially when practiced for a number
on
nishing us with the practiced, while not fur15.72
16.00 such that it enables us to ascertain which are the
good the 16.00
12.02 vood cows in a herd and which the poor. Thus, raise heifer calves from the best. poorer cows, and
rin conclu
 8.93 keeping milk records be adopted by all dairy
8.6 farmers, and, while our method 8.6. Derfect, we would recommend it is by no means Deriect, we would recommend it to consideration The IT. Williams, Simeoe Co., Ont , : " We like

## Little Trouble to Keep Mille Records.

Editor "The Farmer's Advocate'
In 1903 I saw that blank forms for keeping
milk records would be sent free to any one what milk records would be sent free to any one wh
would fill in a monthly report and return it would fill in a monthly report and return it
Prof. Grisdale, Experimental Farm, Ottawa, I started, and have kept on ever since. I kec it about six or eight months every year-just in
cheese-factory months. I test about twice in the summer-just enough to weed out the pooll We are paid by the hundred pounds in our factory so the test doesn't amount to much so far as the factory is concerned. I don't find it much trouble weighing the milk since I have got used to it. I don't miss the time. I have a shelf for the milk about the center of the stable, and at the end of desk, with my blank form on it, with an elastie around from the ceiling withe my spring scales hung from the celling with a litlle chain. 1
have the tinsmith make my pails to the even pounds' weight with solder, and I know at a glance how much milk there is. 1 also have the lead pencil hung on a string, so it is always
ready. I think about one minute to each corw every day is about all the time it takes. The
hardest thing I find about it is making out the monthly report. I think about one hour each
month will make it out. Some think it would do month will make it out. Some think it would do
to weigh it three days in a month and take the average, that way: I would rather weigh every milking I think it pays in two or three ways. You
take more interest in the good cow and feed her better, and the other cow you make beef of. I
have not a very big herd. I will send a copy of
eipht months of 1903 . The cows arc numberal instead of named
$\qquad$
Average selling price, 109 cents for pound cheese.
In 1903 one milk can would hold all my milk It a day, and in 1905, with only two more cows,
it took two cans to hold the milk, and they were good and full, too; but I have changed about
half the cows in that time. They are grade Hol steins and grade Ayrshires. I have no pure-breds yet, but hope soon to have. My best cow is a
The reason I have no later statement than
1903 is that I was changing the cows so much that I did not make them up as I ought. But as long as I milk cows I shall always weigh and test. I know in the fall what each cow is worth
 Breeder's Memorandum that came out in May 15 , 1903, "Farmer's Advocate" framed and hung up
in the stable. It is the handiest picture I ever in the stable. It is the handiest picture I ev
had framed. A. KENNEDY.

## Straining Milk Before Separating.

F.Ator "The Fariner's Advocate":
A few weeks ago 1 noticed in an article in
cour columns some one advocating that it was our columns some one advocating that it was
not necessary to strain the milk before putting it
mough the separator, and the plea was that the through the separator, and the plea was that the
cloth or strainer used was often only a source of
(1) We have to admit that frequently the strainer is due entirely to carelessness. I have in that two women I saw washing strainer cloths. One one
tinsed hers in the dirty dish-water, and hung it a nail at the back of the stove. The other woman washed hers, first in clean, tepid water, clothesline, where it hung from one milking time
to the next. This latter method was as it Tho advocate or practice not straining th sooner the dirt is strained from milk, the better he flavor and keeping qualities of it. While a reparator removes some dirt, still, at the same
ime, the longer the dirt is in the milk, the more Soluble it becomes, and no separator, the more
omen ermove it. Moreover, not straining the milk pre-
vous to separating it, is apt to close or partially thog the skim-milk outlets, and so interfere with
LAURA ROSE.
Lkimming.

## Test the Cows.

If you test your cows one day each week dur-
ing the milking period, and on the same day of The week, or will test them, say for a week, when his for and bre the loe or hine weeks, four weeks benough about your cows to induce woul for more full and complete tests hereafter.
If, however, you will not go to the trouble of getting a Babcock test, you certainly can get yourself a pair of scales, a piece of paper, a pencil and a Mason fruit jar, with some tablets-to to keep your milk from souring. Put into this jar a gill of milk from each milking, after it is horoughly stirred. Do this for a week, and send it to your creamery, whether you sell your milk
locally or at a distance, and have them find out for you the per cent. of butter-fat. If you have the pounds and per cent., your small boy will tell You are not doing a safe business if you underrake to sell milk without knowing what it is (Wallace Farm.er.
B. d'E. Boden, Saskatchewan: I firmly believe
that the keeping of records is the only reliable means of improving herds by selection, and it is


GARDEN ORCHARD.
Draining a Fuit Farm.
My experience has been somewhat extensive, as I have practically all my own fruit land-two it 80 feet apart, 2 feet 9 inches deep, In It would say that on all of the fat land you canpot eaxpect
to grow a first-class article of fruit, nor can you to grow a first-class article of fruit, nor can you expect to make frut-growing prostabie frequently will not pay to drain such land for ordinary field crops, as the expense is considerable, but it tainly will never pay to grow fruit without it tainly will never pay to grow fruit without it. necessity. I do not drain the hills or high, dry ground, especially if set with igrapes or pears, as these fruits seem to stagnant moisture in the sub soil than peaches, plums or cherries. These last three, and particularly the last two, and mos ures on land having stagnant water in the sub soil for any considerable length of time at all,
and this is the condition of undrained land with and this is the condition of undrained land with
a clay bottom during a portion of every year. A a clay bottom during a portion of every year. A
man only wastes hifimbneyjplahting cherries man only owastes his money planting cherries or either naturally or srtifcially 1 I I have lost considerable quantities of peach trees in the nursery on land that was low and rat, even thoug soil was not sufficient, but, of course, such soll is not the sort of land to put a peach or-
chard on. These
nurser nursery rows, run-
hing across the fleld,
were run over this were run over this flat ground, thinking
that, beng thor-
oughly underdrained 30 feet apart, they
might succeed,
but
such was not such

Nowe with regard to the system of laying out, of course that depends, upon
the slope in the field. One must place the
main drain along main drain along the lower level. For
a ten-are field, where there is a Where there is a
good botom, a
Irch main, with Inch main, with 2 quite large enough; quite large enough;
many people use
larger sizes, and, of larger sizes, and, of
course, targer sizes
are necessary is the

Bonshaw's Royal Delight -17332-, Imp.
Three-year-old Ayrshire bull. First-prize two-year-old, 1904; second in aged class, 1905 Central Canada Exhibition, Ottawa. Exhibited by J. H. Black, Genoa, Quebec.

## Careful Milking.

Every milker thinks he knows how to mills, but if the cows could express their opinions they would probably intimate that a few lessons in the gentle art wer
not unnecessary. It is not fair treatment to sit down not unnecessary. It is not fair treatment antil she steps around in the stall and acts as if she were badly hurt. Sometimes a cow will stop eating and wait until the ordeal is over before she will resume her meal. 'The cow able cow will not do her best for her owner. Some men have a way of milking that so pleases the cow that she clearly shows she enjoys it. These are the men whose method should be copied. Observing them,
we see that they never shout at, strike, nor otherwise
ill-treat ill-treat their cows. They sit down quietly, take hold of the cow's teats gently, no matter how much of a hurry they may be in, and begin to draw the millk
without pressing too hard, for they know they without pressing too hard, for they know they are at it until the last drop is out. It pays to mill care-fully.-[Massachusetts Plowman.

## A Trio.

G. R. Munroe, Richmond Co... P. Q.: "M Many some more subscribers. Wish you every success."

C. N. Mighton, Wellington, Co<br>The Knife

The Knife is
and filling up of the tile, but amount of sagging and filling up of the tile, but on a clay bottom, and the tile well laid, there should mever be any filling up. I have had some fields laid now for over twenty years, and have never had
to take a tile up yet, except where there happened to be a quicksand spot. Sometimes these are diffcult to manage. Where very bad, I lay
boards in the bottom and lay the tiles on these boards in the bottom and lay the tiles on these
boards, driving the boards down into the sand solidly. Most of my drains have been leid 2 ft . $9 \mathrm{in}$. deep, which I consider below the frost line, and not much more, For orchards, however, I my drains midway between the rows of trees in each alternate space. I have never had much trouble with roots of trees getting into tiles, oxcept where there is a spring of water running bound to be a great deal of trouble which is not joint of tile so the If you cement or close the joint of tile so the roots cannot get in, you, also tent, though I believe a considerable portion of the excess of moisture in the soil would be absorbed by the tile, it would go through, the
pores of the tile. I have never tried this method yet, but intend to in springy spots.
I tried ditching machines spans. years ago, of I tried ditching machines many years ago, of too expensive a luxury. Not only is the first pairs are very expensive. I do all my draining now with a subsoil plow, followed by men with
shovels throwing out the loose earth shovels throwing out the loose earth. A subsoll plow, drawn by two strong horses, one on each
side of the drain, will loosen the soil to any
depth required depth required, by lengthening the chain connect ing the doubletree with the plow. This sondect
the cost by half over digging by hand, and is at $-a$ feet $\theta$ inches deep, with with the lateral drain soil, and with the mains of varying depthe sandy top soil, and with the mains of varying depths, some
times running through ridges 4 to 5 feet deep sa the average cost of laying eleven miles of tile Which we laid one season on one of my farms
was 20 cents per rod. This included ant was 20 cents per rod. This included all labor about $\$ 7.00$ per thousand for The tile itself cost thousand for 24 -inch, and $\$ 11.00$ per thousand for 8 -inch, at kilns here. 2 - So far as laying th
taile, we have never used any instruments thile, we have never used any instruments, bu ris safe and sure, and does not cost much. For many years I laid all the tile myself,but I got real good, steady, honest man thoroughly drilled into the yob, and he has laid all my tiles since to a dishonest man. The laying of tile carefully and correctly fs the whole essence of the matter One tile out of place, or a depression in the fall tile by just that much, as the depression will im mediately fill up with silt. E. D. SMITH.
Wentworth Co, Ont.

Pruning Pruit Trees.
y Linus Woolverton, Grimsby,
PRUNING FOR FRUIT.-In the
great object in view is, of course, the productiond, the truit, and plenty of it. The neglected crchard yields y scrubs, and is a loss to the owner and an eyesore passers by.
The import
produce importance of thorough pruning, in order upor me of late, by observing the difference in qualit
betwem the between the fruit borne in those parts of my orchard
thoroughly pruned, and that from the been noglected. I believe that sunshine trees which had on the formation of fruit buds, as well as in painting the cheek of the apple with brimant well as in painting it is that too much brush wood on a tree is like weeds To thin out all parts of a tree equally needs patient and careful work. It is easy enough to go from tree to tree, cutting out here and there a large limb, end fiatter oneself that the work is done. But, alas 1 it is
not done at all, there is simply leas tree remaining than before the cutting. It is quite another thing to over the bushy tops and thin out the smaller boughs
until each has room to mature its share of leaves and until each has room to mature its share of leaves and
truit.
 if kept well siled, will too quick and effective work.
(2) A pair of pruning sheara, with short handlee are especially useful for thinning out young wandles, which A pair of grape pruning shears, for, thinging out the
smaller extremities. Armed with wich tools as these, a man will go over a good many trees a day, espectally A great mistake is made is some pruners, by cut
ting off all the fruit spurs along the maln lime my opinion an apple tree should bear fruit on all paris and if the main limbs are covered with freitranches; this will be the case. If these are removed, they can not be easily replaced. They can be easily recognized from their slow, drooping habit of growth, in distinc
Lion from the upright habit of the Lion from the upright habit of the so-called sprouts,
These latter need not all be removed either, for if ther is an open space one should always be allowed to fil it, and in a year or two these vigorous young sprouts
will produco the very largest and finest apples. will produco the very largest and finest apples. I had
this experience once in my old early harvest apple orchard, which was planted by my great-grandfather in
1798 . The old limbs were much riddled by the redheaded woodpecker, which was either searching Iners or was fond of the sweet sap beneath the bark
In some instances large limbs were almost girdled nh some instances large limbs were almost girdled by
the holes made by this bird, and, as a result, vigorous young sprouts began to grow from below the injury.
Some of these I permitted to grow. In a couple of years these were the finest portions of the tree, and
yield the very finest harvest apples, many of therm double the size of thoses borne on the old wany of th
An additional reason for close pruning is found adays in the necessity of spraying. We have fungi and
insects both to fight if we would succeed in our work. and we must spray with lime, sulphur, whale-oil soap, Bordeaux, kerosene emulsion, etc., etc., if we would grow fruit of the best quality. Spraying is not worth very
much unless every inch of wood is covered with it, and if head of a tree is a dense mass of brush, how can you
reach every part ; besides, what a waste of time reach every part; besides, what a waste of time and
material there is if a lot of unproductive and useless wood be left to be covered with these expensive mix-
tures?
So important have these operations become, that
our co-operative fruit-growing companies have, in some cases, made it' a rule that every member must properiy leges of the company
the pear tree
Since the pruning of the standard pear is somewha

As a rule, the top should be formed lower than that For the Bartlett, the growth the Louiee, varieties more or less upright in habit, think three feet of trunk will bring the top high enoug some other varieties, which in tillage. In the case of Flemish Beauty, Anjou,.- Boussock, Diel, etc., perhap four feet, or oven Alve, might be adv
the after treatment of the branches
Heavy pruning of the pear tree
Heavy pruning of the pear tree should always be
voided, because it is followed by young and growth, which seems to favor the attacks of the blight The chief work in pruning the pear ts to thin out the top, so that it may not be too thick, and to pre vent limbs from crossing each other. If any of the
limbs grow too long without sending out side branches or if the tree is reaching up too high, all such limbs must, of course, be topped, so as to keep the tree withneed leas bounds ; otherwise, a standard pear tree will need less pruning than an apple tree, and may be al-
lowed to follow pretty much its own habit of growth The fire blight has always boen the terror and the despair of penr-growers. In a most unaccountable way it suddenly attacks the finest pear trees, the pride of
the orchardist, and leaves them looking, by fire. Of late sclentists tell us that one meanched carrying the germs is the visits of bees in blossoming time. taking them from the flowers of a diseased tree to the flowers of a healthy tree. If this is so, pearyear to cut out all blighted or hall-blighted wood from their trees. The blackened bark is easily discerned, and often traceable much farther than first supposed.
This should be cut off nhout trace of blighted bark, so that no diseased wood may trace of highted bark, so that no diseased wood may
escape. The pruning should not be left to lie and
scatter their spores, but should be gathered and burned.


The Dwarl pear tree needs different treatment fron the Standard. It is budded on the quince root, a slow pruning, and in some cases encouragement by close tilizers, but seldom by nitrates. The quince root being a surface feeder, and not rooting deeply, is anothe
reason for close pruning, for is the top high the whole tree may be uprooted and blown over of the dwart Bears tends, I think that close spur pruning of the dwarf pears tends to improve the size and qual
ity of the fruit, for while close pruning of a standard would result in too much wood, the same treatment of
a dwarl only gently stimulates the wood growth imparts the energy thus conserved into the fruit buds as I ann trying to train all my dwarf pears to the
pyramidal form, because it makes a beautiful and a ymmetrical tree. To do this it is, of course, necessary Lo begin with a young tree from the nursery that has
been allowed to branch from the ground. Indeed, it is always best to buy a dwarl pear with branches well By careful pruning with the grape pruning shears cach year, the young dwar\& pear tree may, in a few In addition

Southern Ontario Fromit-growers
s Advocate
The fruit-growers in that important fruit inet themselves Hamilton and Grimbsy have organized title. Mr. Jonathan Carpenter, of wino alove elected president, and Mr. Egbert Smith tary-Treasurer. The directors are to be rectre sentative; instead of being elected by the muetless than ten members. The membership 50 cents per annum. The object is to disc problems of practical interest to fruit-grower. The first meeting was held in the new ha Stony Creek, on Friday, February 28rd. "Peach
Culture" was introduced by Mr. Wesley Smith, of Winona ; "The San Jose Scale," by Mr Smith, an official of the Department of Agriculture ; and, "Grape Growing and Pruning,
Mr. L. Woolverton, of Grimsby. The second meeting was held Friday, March 2nd. At this meeting much tim was spent discussing practical questions, such "Transportation of Fruit, Both Exppress Packages "; "Co-operation Among Fruit-g ers," and other subjects. My. H. L. Roberts,
Grimsby, outlined $a$ very Grimsby, outlined a very practicable scheme looking to small local organizations of fruit ate, and thus avoid the present reckless method of selling fruit on commission, by which the grower is the constant loser.
This Association promises
strongest and most influential in Ontario, bein composed of some of the most progressive and best-informed fruit-growers in the fruit district

## POULTRY

## Get Ready for Spring.

These are days when the farmer is getting ready for the breeding season. There is getting time than the present for preparing for a thorough cleaning of the poultry premises. As far as possible every crack should be cleaned out and all dust swept down. The litter should be mains, abundance of lime shon of foul smell remains, abundance of lime should be used. The
roosts should be taken down and scalded, and the dropping boards thoroughly cleaned. Then
the whole the whole premises should be carefully sprayed with coal oil. A good hand spray answers this ful to see that the oil reaches every crack carecranny. This done, the whole henhouse should be arefully whitewashed with the best of new lime. casional dusting with sulphur. These of an ocase recommended on the principle These precautions prevention is worth several ounces of being sorry spring days. Then, have come with the warm spring days. Then, again, it will be wise for
those who use incubators and brooders to their machines over, and test them, so that there for their being put to use when the time comes hr their being put to use. Those who still use are ready against hatching time. see that nest hatching eggs from his own flock, it will be well to separate the cockerels from the hens till If eggs from another flock are sought, they shound le spoken for, in order than an early hatch may
be secured be secured. The poultry business yields a fair
profit, provided care is taken profit, provided care is taken and judgment is
used. If one aims to have his hens lay next De

Believes there is Money in Ducks. proper height, and thus the tree will not increase very rapidiy in size. The laterals should be cut back to
within two or three fruit buds of these main limbs nore. or less, according to the size and vigor of the
tree. A well-proportioned dwart should have its diam will be an attractive feature of the orchard or form, garden, which the owner will have pleasure in showing
his friends, and inviting them to partake of the lusclons
frum From the results obtained on 100 trees, set
apart since 1902 by the Maine Txperiment staion for specific experiments in old-orchard romo-
vation, the Horticulturist, Prof. W. M. Munson. and foorranted in stating that, with proper care Baldwins. $\Lambda \mathrm{s}$ might be expectod, bother results
were obtained from the application of a complys fertilizer than from the use of ans one or two.
its separate components. The severe winto $1904-5$ injured many trees, hut where winter
vation and feeding are practiced the froes
rapidly recovering
tention to ducke year we have given considerable son sorne 200 , some of which were sold as dressed
birds, and a number of birds, and a number of which were kept for breed
ing purposes. White Pekin, Indian Runner and
Roucn are the

The demand for "green ducks " in in Nova present.
is yet rather small, but it is a
there are is yet rather small, but it is a a growing one. As
there are no birds which grow more rapidly and
no more economian the more economical feeders, we are decidedly of larger number than have heretofore been a much in our Province. We marketed the most of our
birds when they were ten weeks old, at which
time they time they averaged in weight from $4 \frac{1}{3}$ to 5 which
Many persons Many persons believe that ducks cannot be suc-
cessfully raised unless they hake orstully raised unless they have access to a poo Nu running stream. That this is a mistaken Visited a farm in Massachusetts where some when he
duchs were raised annually, and yet mot a stream raised annually, and yet there was
inree miles.- of wat on within a radius Agricultural College, in his 1905 annual N . Landry Pouthry a Managus o
And

Rearing Turkeys

 gatured and kept in bran in a cool room, turning same
at least twice per week.
When the turkey egg is taken from the mest a hen's egs should be left in its stead



 start free irom hice is one or the important points in
turkey-raising. have never had to grease a young
poult tor lice, and 1 give the credit all to insect powder
 the less handing they receive the better. If you are
going to place the hen in a coop that has been used the should be given a thorough whitewashing at the same
time ou dist the hen, so that it will be perfectiy dry
whe reenuired

It is not advisable to bother the hen much when the
poults start hatching, as the most quiet turkey becones cross and "fussy" when she hears them chirping. Itry
to leave them alone for about 12 hours after I think
 balancing her fairly on same and throwing her of.
There is no use coaxing or delaying in doing this, for
the

 small scale of the end of the bill at the same time.
The laterer Incy, cause them to pick crooked until
it falls oft, if not removed. I allow the hen to return to the nest tor another 12 to 24 hours, depending upone
thow far hathing has progressed. At this stage the
lowdition of the weather infuences my next move.
con



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|  | During the past vinter Prof. G. M. Gowell has |
| :---: | :---: |
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|  |  |
|  | 400 feet long by 20 wide, with walls 7 feet higl |
|  |  |
|  | south side. |
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|  |  |
|  | Syuare and about 8 feet high at the ridge, sealedWith matched boards, and separated by board par-titions, with doors swinging each way, enabling |
|  |  |
|  |  |
|  | titions, with doors swinging each way, enabing |
|  | a tram car with overhead truck to traverse the cntire 400 feet. Each compartment has a grass run |
|  | run on the front side, 20 by 100 feet, and it is proposed, the coming summer, to construct simi- |
|  |  |
|  | lar runs at the rear of the to be used alternate weeks. |
|  | At the right hand as you enter is the roosting closet. the platforin of which is clevated 3 feet |
|  | from the fic |
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|  |  |
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|  |  |
|  | may be used as priso |
|  | Realizing the importance of plenty of light and |
|  |  |
|  | atethe south side is lieft open forthese germ-destroying mediums. |
|  |  |
|  | prevents the$91-3$ feet by |
|  |  |
|  | the ceiling byof air, while |
|  |  |
|  |  |
|  |  |
|  | henhouse on thitting to the |
|  |  |
|  | Charcoal, |
|  |  |
|  | slatted sides, |
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|  | $\begin{aligned} & \text { all times the } \\ & \text { ments. The } \end{aligned}$ |
|  | bowels. On |
|  |  |
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|  | dizariron |
|  |  |
|  | yer of sand an inch deep. Above this is a gen-jus litter of straw, which is removed every two |
|  |  |
|  | $\underset{\substack{\text { weeks. } \\ \text { six } \text { roosters. }}}{\text { In }}$ |
|  |  |
|  | Each morning four quarts of cracked corn aresattered in the litter of each pen ; at noon, two |
|  |  |
|  | quarts of oats and two of wheat. The dry mashis always before them.It is composed of two |
|  |  |
|  | parts bran, one linseed, one middlings, one cornmeal. one beee scraps, and one ajax flakes ororCut clover, at the rate of$3 \ddagger$ hrewers'pounds to every hundred birds, is given dry every |
|  |  |
|  |  |
|  |  |
|  | Diuring January 800 eggs were produced daily,collections being made every few hours. February saiv an increase of 200 eggs per day. |
|  |  |
|  |  |
|  | In a little house, erected for the purpose, these eggs are sorted with reference to size and color, |
|  |  |
|  | packed, and shipped by express to the fancyfamily trade of the Boston markets, shipments |
|  |  |
|  | being made daily, and no egg being over one day <br> old when sent to market <br> Three vears ago Prof. Gowell bought this land |
|  |  |
|  | order to have it in the best possible condition for ranging chicks, he fallowed it one summer, and els of the tulhers. Now the crop from that land, Wentworth Co., Ont. is chickens and M. B. A. |
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|  |  |
|  |  |

Would Not Take a Dollar for the Knife.


Wishing you and your paper every successs.
Carleton Co., Ont. CLARENCE D. MILLS.

## THE FARM BULLETIN.

.. A bounty on tree-growing would be of far more
benefit to the country at large than a bounty on beet writes S . B. Euli
". Forest Leaves.'

## Lectures at the Eastern Ontario Livestock and Poultry Show.

The meetings and lectures in connection with the above show, the live-stock classes of wresident G. C.
viewed last issue, were presided over by Premer Creelman, of the O. A. C., Guelph. Wednesday afternoon (March 7th) session was devoted to sheep. A W. Smith, of Maple Lodge, a well-known, profits o
sheep-breeder, discussed the advantages and profis sheep-raising. From a lifetime's experience, he was pre pared to say that no branch of farming on the average yielded more profitable returns than sheep-raising. had always kept pure-bred who raises pure-breds greater portunities for the man breeding for commercial pur
than those of the poses only. He not only came out ahead financially but was a beneit his neighbors and his co

PROFITS IN SHEEP-RAISING
Mr. Smith designated the protits as the material advantage. for the protection of a flock of sheep tham any
suitable for other kind of farm stock ; the comparative cost of feed ing was less, and the care of sheep was not an expen sive and laborious occupation. Hould carry from 25 to 35 per cent. more weight per acre than cows, and could be produced at least one acre than cuns, cheaper, instancing in support of this his own experiences. He spoke brief uponed that sheep sheep for exhibition purposes. He believed that sheep
should not be housed during the summer months, as he should not be housed during the summer months, as he
had found outdoor feeding more economical, and had had found outdoor reeding more economical, and hasing. He referred to the usefulness of sheep to destroy weeds, Smith pointed out in conclusion that it was possible to defray the entire cost of keeping a flock of sheep
from the sale of the wool, leaving the receipts from the from the sale of the wool, leaving the receipts from the
lambs clear profit. In reply to a question from John lambs clear proth. Mr. Smith advocated holding them until Christmas and Faster, as from one to three cents more per pound If kept over, however, they must be handled and fed Prof cally to insure this profit. ${ }^{\text {a }}$ Desirable and Undesirable Points in Mutton Sheep," and had in the ring a most excellent type for demonstratuon purposes.
He asserted that all classes of animals must be viewed from the breeder's, feeder's and butcher's standpoints. All were, however, united in one definite aim to please
the consumer. The butcher considers the most valuthe consumer. The butcher considers the most valudesires a long, broad back. broad loins and well-proportioned leg of mutton. The breeder desires good constitution, or an animal with broad chest, large heart-
girth, good length of rib and large barrel, which indigirth, good length of rib and large barrel, which ind-
cates feeding capacity. Breeders should select sheep with good constitution and desirable type, in order to secure a profitable type of progeny.
In the discussion which followed
in trimsed, John Jackson advised trimming shee properly before sending them to market or the show-ring. It was in his opinion a per-
fectly legitimate practice, as it was done merely for the purpose of improving the appearance of the animal.
Competent fudces could not be doceived by this prac tice. Mr. Miller said the way to judge the amount of flesh carried on the back was by the thickness of the dock and thickness and strength of neck. English experts judged entirely by this method.
markets for sheep, and how to supply them. Three markets were open to the farmers of Ontario, viz., British, Canadian and American, ranking in importance off, owing to our not supplying sufficient numbers, and the quality on the whole not being up to the standard. This could be rehuilt, as the present demand for a superior quality of mutton would insure a ready market
at a proftable figure. The Canadian market was good one, specially for early lambs. The Dorsets were well adapted to meet the requirement. Lambs could be disposed of at the most proftable ngure in the AmerCampbell reiterated what Mr. Smith said regarding marketing lainbs at Christmas or Faster. He referred achieved in the American markets, and noted that from the twelve carloads of live stock recently sent from the
(iuelph to Chicago International Live-stock Show, Canadians returned with over 90 per cent. of the prize
money awarded in the classes in which they were comtpeting. He complained that the Government was giv-
ing sheep-breeders little recognition as compared wivt ing sheep-breeders ittle recognition as compared with
dairymen, and were not giving them , the protection they were entitled to from the dog nuisance.
C. W. Bowman, manager Montreal Packing Co., Montreal, who addressed the meeting on "Some Mutual
Interests of the Packers and Hog Producers," said that although the business of the farmer and packers were
quite different there quite diffrent, there was a great deal of mutual inter-
ests. While they had been exporting bacon for thirty
years, however, it is only since improvement in paching
and improvements by producers in the production of an
desirabie type of bacon hog, that pork production had become a profitable industry. Calladian trade as compared with Danish in the English market was comparufrom one to two cents per pound more than we were. vised all breeders to stick to the bacon type through depression and prosperity. Occasionally a panic goes
over the country which causes breeders to sell their hogs before they have reached the proper weight. This not only has a depressing effect upon the market, but
they found when these pigs were slaughtered that they they found when these pigs were slaughtered that they
produced from 10 to 20 per cent. less Wiltshire side than if they were properly finished and weighed 180
lbs. Another point of Another point of mutual interest to both farmers
and packers was the regular supply of hogs. When the world's supply was greater than the deniand, farmers
stopped raising hogs. In the course of a few months stopped raising hogs. In the course of a few month
things right themselves, and we find there are no hogs to market, and we lose our export trade. If the Canadian farmers would supply packers with a steady and
desirable type of bacon hog, the Canadian producer could get ahead of the Danes, as the English market demands the best that can be produced, and will pav the price. "What about the restrictions placed on American hogs ?" was asked. Mr. Bowman replied thal
he did not believe it would do the farmer any haril he did not believe it would do the farmer any harm,
and he believed the situation would soon right itself if the packers would let American bacon alone.
Prof. Day said his experience with stock foods led him to believe they were a negative quantity. There
were some which would nossibly act beneficially as a wenic if pigs were out of condition, but he advised all feeders to think twice before they, paid out hard cash for stock foods which the agents refused to give the
composition of. Mr. H. Glendinning discussed "T The Impo
the Bacon Trade to the Canadian Farmer. farmers had inquired from him during the past wi for the thick, fat hog. Should we go into the producmeet the competition of the American pork hav duced prices. Asked as to what was keeping up price of the fat hog, Mr. Glendinning stated that
bacon hog was carrying the fat hog along with assertion in which the majority present concurred Mr. Thos. McMillan took up the discussion. stated that if we were going to keep up the fertility our soil we must engage in a system of stock-raising
The Province is more prosperous now than ever before and he attributed this largely to the increase specially live stock. He advised farmers to
the business of hog-raising, as the capacit the business of hog-raising, as the capacity
packing houses in Canada was over 60

$$
\begin{aligned}
& \text { packing houses in Canada was over } 60,000 \text { per } \\
& \text { and we were only able to supply } 15,000 \text {. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and we were only able to suply } 15,000 \text {. } \\
& \text { Thomas McMillan, Seaforth. discussed the finishing }
\end{aligned}
$$

and marketing of beef cattle, pointing out the necessit of following
$H e$ steers for feeding, and April and May the most profitable time to dispose of them. In buying for feeding purposes, select animals that have been well done for
up to the time of purchasing. Regularity in feeding. up to the time of purchasing. Regularity in feeding.
cleanliness and gentle treatment were prime essentials to successful feeding. The average cost of feed for fifty steers bought in the fall and sold in June, was \$18 per head. This was reckoning the ensilage at $\$ 2.00$ per
ton; straw, $\$ 1.50$; grain, $\$ 1.00$ per hundred, and clover hay, $\$ 8$ per ton. In reply to an enquiry as to wh was a good average gain from November to May, M McMillan stated that fifty steers wintered by him made an average of 275 to 300 lbs. each.
Mr. Glendinning gave an address on the dairy femal from birth to maturity. He advised allowing the cal to suck for a day or two to eliminate the possibibitit.
of over-feeding, which often proved fatal of over-feeding, which often proved fatal. A dairy ca
need not be fed whole milk after it is one week old need not be fed whole milk, after it is one week old
When feeding separator milk, however, add a small handful of ground flaxseed to take the place of the
separated from the milk. separated from the milk. Feed the calf milk until
is six months old.
Breed the heifer when she is 18 is six months old. Rreed the heifer when she is 18
21 months old. During this first period of pregnal is the critical period of her life, and attention and
tra feed, specially during the last four months tra feed. specially during the last four months befo,
parturition, will give very profitable returns. He al their worth by performance.
heifer's udder-but never drawing milk-the last weeks of pregnancy, as it would develop it. Milk

## Forest Reserves for Dominion.

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 | Mounta |
| :---: |
| danite |
| Nant |

toba.
anc Mometain, Manitola 130
square miles: Long Lake. British Columbia, 11.8 squar niles. It

## Two Pioneer Agricultural Society Officers.

The Ottawa Dairy Test.


Few Agricultural Society officers can boast a longer
enure of office than the two whose halftone portraits


The Globe Favors Wood-lot Exemption.


The Mutual Fire Underwriters' Association of Ontario


Frank Birdsall

wen. Drayton: J. J. McKendrick, Galt; and Frank
Haight. Waterloo. The report by the Ex-Com.hazard caused by the introduction of power in farm
harns. The foilowing rates, additional to the ordi-
nary premium note of a company, was recommended andunanimously a dopted : company, was recommended and

1. Portable steam or gasoline engines, for threshingonly. ordinary rate.
2. Portable gasoline or steam engine, used for
other purposes than threshing.
rat. or mer cent. additional onGo wo or stack of straw or grain. Gasoline engine
to be of tatest and most approved pattern-ignition
ty ellectric spark, gasoline supply to be pumped fromny woctric spark, pasoline supply to be pumped from
comtainer not less ohan 20 feept distant from the engine.
annd 4.5 feet distant from anyEnkinain. the restrictions convernink the use of stramWrywher. commumicatine with the building hy belect
$\qquad$
$\qquad$ has made a report strongly favoring such exemption as
that proposed in Mr. Downey's Bill. The report states
that the most objectionable feature of the present system is that "it provides for taxing the value of the
growing crop as well as the land upon which it grows." It says further, that the growing crop is taxed, not
only once or twice, but year after year, at an increasing 2aluation until it is cut, when the valuation is reduced
to that of the land without the crop." The Globe itself strongly favors the principle of Mr.
Downey's Bill, and concludes its article with the state-

0
W. E. Roxburgh.

0

Timber in Temiskaming.

New Liskeard, a Thriving Town in New Ontario.



A Surcescful Seed Fair ot Gurlph.
On March 10th a successful seed fair was held in
ander the auspices of the South Wellington
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Will the Embargo be Repealed?



New Accountant to National Record

$\qquad$ Office at Ottawa, acted as Accountant to the National
Record Board, in addition to his duties as Registrar
for the Clydesdale Shire for the Clydesdale, Shire and Hackney Associations.
Owing to the large increase in the number of registrations, he will hercafter devote his entire time to the
work of recording. Mr. Wade has heen associated with stock records in Cinada and the Tinited States for more John W. Brant. of the Live-stock Branch in the work.

## Is it All Worth Reading?

An item of Ottawa correspondence, dated March 14th, reads: ". Evidence taken before the Tariff Comthousand odd pages of typewriting, containing eight the House to-day."
postponed !

## County Councils.

A Bill is before the Ontario Legislature having for 1ts object the amending, or, rather, ehanging, of the
Act respecting the constitution of County Councils. The proposed Bill looks very much like a return to the sys-
tem existing previous to the adoption of the present system some ten years ago. As to whether the change is considerable difference of opinion, and it must be adgiven entire satisfaction. The G overnment's proposal, embodied in the measure now before the Assembly, is to
restore to local municipalities the right of representation in the County Council, but to limit the membership of the latter by increasing the unit of population represented by one member. According to the Bill as
presented, the County Councils for and after the year presented, the County Councils for and after the year
1907 will be composed of representatives-townships, towns and village municipalities by the reeve, and, in addition, by a deputy-reeve or deputy-reeves, as follows: oters' list, by a first deputy-reeve ; if more than 2,000 and not more than 3,000 names, by a first and second deputy-reeve, and if more than 3,000 names are on such
list, then by a first, a second and a third deputy-reeve. The effect of this would be to materially increase the

county as it was before the change of 1896 . Tho

who have had experience as councillors under the old to be quite a demand for newly-dropped. The
as to whether the prstems, are in the best position to judge pose to be used in the canned-chicken business. an improvement, and these change is likely to prov pear to be best qualified

## Oxford County Farm Notes.

During this month of March we endeavor to have all the grain in the granary cleaned up, putting tha all in readiness to bag up when seeding time comes. ground intended for roots and corn, except a spead on th tion that has got tramped and froze solid. We also have the potatoes sorted over and ready for sale. W have been in the habit of planting the medium-sized
potatoes for seed, and reserving all the largest ones for potatoes for seed, and reserving all the largest ones fo
sale. We also take the harness all apart and wash an
dil it thorourbly oil it thoroughly, and repair where necessary. When we are to build any crab fence, we see that we have all
the stakes sharpened up this month, so that we ail ready to go on building the fence whenever the frost is out the ground. The past winter has been a very Cows and brood sows have been selling very high. One
selling at about 38 cents. Quite a number from sible that not a few of them would be as well off to $\underset{\text { mritain. }}{\text { main. }} \begin{gathered}\text { Their places are being taken by immigrants } \\ \text { Help is not so hard to get as it was }\end{gathered}$ Britain. Help is not so hard to get as it was a
years ago, but wages are still pretty high. There
been auite a demand for been quite a demand for horses, over $\$ 200$
stances being paid for the best heavy horses

## International Sheep Records

$\qquad$ sulfalo, N. Y., March 17 th, satisfactory agreement
made with the American Shropshire Association laid down at the Chicago conference in December lines ther American associations were not represented at
the Buffalo meeting, but the indications are that thoy the Buffalo meeting,
will fall into line.
 from the Government $\$ 147,851$ by way

## MARKETS.

## Toronio.

$\$ 5.15$.
 and cows, $\$ 2.75$ to $\$ 3.50$. Butchers' Cattle-Picked lots, $\$ 4.60$ to
$\mathbf{\$ 4 . 8 5}$; good to choice, $\$ 4.25$ fair to good, $\$ 3.50$ to $\$ 4$; common
 for good short-keep feeders, $\$ 4$ to $\$ 4.50$ heavy feeders, $\$ 3.85$ to $\$ 4.15 ;$ medium,
$\$ 2.50$ to $\$ 3.50 ;$ bulls, $\$ 2$ to $\$ 2.75$;
god good stockers run at $\$ 3$ to $\$ 3.65$; light,
$\$ 2.75$ to $\$ 3$; rough to common, $\$ 2$ to $\$ 2.75$, and bulls, $\$ 1.75$ to $\$ 2.50$, Milch Cows- $\$ 30$ to $\$ 60$ each.
Calves - Fairly-good demand for good veals; ${ }^{\text {31 che. to }}$ 6ic. per lb.
Sheep and Lambs-Export $\$ 4.75$ Sheep and Lambs-Export ewes, $\$ 4.75$
to $\$ 5.25$ per cwt., and bucks, $\$ 3.50$ to
 Hogs-\$6.85 per cwt for selecter and Hogs-
$\$ 6.60{ }^{\text {f }}$
watered.


THE CANADIAN BANK OF COMMERCE
Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$ HEAD OFFICE, TORONTO
B. E. WALKER, General Manager ALEX. LAIRD, Asst. Gen'l Manager

BANK MONEY ORDERS
$\$ 5$ and under....................... ${ }^{3}$ cents
Over $\$ 5$ and not exceeding $\$ 10 . \ldots \ldots$.

These Orders are Payable at Par at any office in Canada of a Chartered Bank These Orders are Payable at Par at any office in Canada of a Chartered Bank
(Yukon excepted), and at the principal banking points in the United States.

THE CANADIAN BANK OF COMMERCE, LONDON, ENG They form an excellent method of remitting small sums of money with safely
36łc., track, Toronto 34k R. bid for No. 2 mixed, Toronto.
Re-No. 2 , 68 . , bide, outside.
Buckwheat-Offered at 49 .., outsid Corn-No. 3 yellow American, 48 c c
bid at Toronto, $49 \mathrm{gc}$. asked, 49 c . bid, to COUNTRY PRODUCE. Butter-Creamery, 25c. to 26c. ; solid
23c. to 24c. Dairy 1 l . rolls., good t
choice, 18c. to 19c. targe rolls, 17c choice, 18c. to
18c., medium,
Cheese-Firm
$\qquad$
$\qquad$
$\qquad$
$\qquad$



$\qquad$
$\qquad$
$\qquad$
skins and sheapep skins, tallow, etc.. quot
Inspected hides, No. 1 steers, 10 c.
$\qquad$
$\qquad$
$\qquad$


British Cattle Market

Montreal.

|  |
| :---: |


| to fine, 4 c . to 5 c ., and medium, $3 \ddagger \mathrm{c}$. to 4c. ; common, $2 \mathfrak{k c}$. to $3 \mathfrak{z c}$. Sheep, $4 \mathfrak{k} \mathrm{c}$. lambs, 6 c . Calves, $\$ 2$ to $\$ 5$ for |
| :---: |
|  |  |
|  |  |
|  |  |

$\qquad$
$\qquad$
$\qquad$ach; heavy draft, 1,500 to 1,700 lbs.,
$\$ 250$ to $\$ 300$ each; choice saddle or
carriage horses, $\$ 300$ to $\$ 500$ adteButter-New-milk butter now arrivingsells at $22 \pm$ c., wholesale; Octower chivicest,
22c.;
choicest winter makes. $21+c$c., dairies sell at 16 cc . to 1 c . Tone of
market somewhat heavy.
$\qquad$
$\qquad$
$\qquad$
$\qquad$or 90 bss., Carloanes on track. to 60.5 c .
Seeds-Deaters say that nearly all the
raised their prices for it to $\$ \$ .25$ or
$\$ 7.75$ per bushel, country points. Alsike
quoted $\$ \$ .25$.
points. They are paying $\$ 2.50$ to $\$ 3.50$
per cwt. for timothy, country points.
$\$ 7$ to $\$ 7.50$ for No. 2 , and $\$ 6$ to $\$ \$ .50$
for No. 3 or for cloter
$\qquad$

Chicago


Buftalo
march 22,1906

## Contents of this Issue.



0
 Horstrs. -

$\qquad$

 The Function of plat


## How Best

 ernanen
 Handy Fenceapost Pruler (illustratede):49 Varietios and Kinds of Farm Crops. 449


 Garden and orchard.
arining a pruit Farm


 .ectures at the Eastern onturio Live







 Cuordsiat Eastern ontario Live
 Magazine .....
Co of Wites Tocouting a lline teroes

THE FARMER'S ADVOCATE
how he made vivenar out of apple Fiditor, "The Farmer's Advocate":
I noticed a question in March 4st is-
sue asking how to Sue asking how to convert apple cider
into vinegar. ${ }_{\text {I }}$ will give you my exinto vinegar. I will give you my ex-
nericnce in this matter: In october,
1901, I made two barrels of cider for 1907, I made tyo barrels of cider fo
Vinegar. In June, 1905, it was ready fo
use. being about eight months old. selected a good barrel, put in the cider, leaving plenty of room in the barrel to
shake well, also add some mother, it Shake well, also add some mother,
peossible. Go to the swamp, dig up some roots of the skunk catbage, wash well,
 ider; shake well once a week, and you
iill soon have first-class vinegar. Try
apportioning line fence
A and IB own adjoining farms; A sells
part of his farm to C. The part that A sells takes in all of B's line fence, as
well as part of $A^{\prime}$ s. There is still $a$, strip of line fence between A and B, which all belongs to A. As it stands at pres-
ent.
about two-thirds of the line fence between B and C belongs to B. This, of course, must be divided, so that each has
half. Now will C have to buy part of half. Now will $C$ have to buy part of
B's fence, or will $B$ have to give it to
C? All of the line fence between A and C ? All of the line fence between, $A$ and
$B$ belongs to $A$, which must be divided B belongs to A, which must be divided
now. Will B have to buy half of $\mathrm{A}^{\prime}$ s
fence fence, or what A has to give to C?
replace what
Ontario. Ans.-A, B and C should endeavor to
agree upon a reapportionment of the lineagree upon a reapportionment of the line-
fencing; but in the event of their being unable to come to an agreement, the way -and, practically, the only way-by
which the matter can be legally and satisfactorily disposed of, is by calling in the fence-viewers and obtaining an award. barn ventilation and elm silo. I like "The Farmer's Advorate " very
much, and cannot speak too highly of it: 1. At present, I am very much interested in the barn plans which appear al-
movst every week. $I$ am preparing for a galvanized roof (corrugated). I have all idea of my own about ventilation. It
is to have openings through the walls, and have a box, suy about $10 \times 12$ in.,
run across the stabte, fastened to the summer sill-perhaps, two or three of
hem. These have noles here and there them. These have holes here and there
through the stable for the air to enter the box, and the cold air going through ai: out. Would like to have your opinion on this plan through "The Farmer's
Advocate." I also intend to build a

$\qquad$ | 2. I think |
| :--- |
| scantline $2 \times 3$ in. will build it of olm | feet insive, and about 30 feet high. side and board on the outside. (:ive

your opinion on this plan. J. w. A.

 lut they are for the inlet of fresh air
only. Instead of having holes, theese
have the under have the under board nailed on in such
way as to leave a quarter-inch crack or opening, the whole length of the box. For exit of foul air, there are box flues
running up inside the walls, and with a turn at the plate continuing under the roof nearly to the ridge, whene they dis-
harge the heated moist air. On the ridge, there is a cupola ventilator. By
means of homemade woden dampers in the flues and boxes, the currents of air
coming in and going out can be regulated. The owner speaks highly of his
system. In your plan, as we understand system. In your plan, as we understand
it, with no other opening in the stable than those in the boxes, we fear that the
cold air would come in at some of them and foul air go out at others, and tha
both ventilation and temperature would be uneven.
2. We believe this would make a very efficient silo, but think that the greatly increased cost over that of a round stave
silo would not be warranted by the re -
$\qquad$ Shorthorn breeders will be pleased to invitation to officiate as judge of Shorthorn class at the Canadian Na
ional Exhibition at Toronto, the fir


QUESTIONS AND ANSWERS
Miscellaneous.
PRINCE OF WALES.
Could you tell us if a horse, called
$\qquad$
$\qquad$ Prince of Wales recorded in the Canadial
hocating a line fence
$\qquad$ lawful, to put posts on line wire my side.
Ontario.
Ans.-The matter is one usually regu
Ated by a well-established custom of the locality, but in the alsence of such
custom, we would say that you may lal
fully place posts and wire as you sug fowls bliatble for exhibition. 1. Are all pure-bred Barred Rocks an
Buff Orpingtons eligihle for show Lind or is it necessary ior themt ${ }^{\text {co Mar }}$. For in
stance, is it ner of pocessary for them to have a certain number of feathers in their their combs, etc.? Barred Rock pullet 2. Have a few batred some eggs for
from which I wish to get sullets have been mated
Thase pulle for some time with cocke:els of the
same hatching and of the same strain. same hatching and
1 intend getting another cockerel to mat
with these pullets. For how long will this cockerel have to be mated with the pullets in
chickens will

## Subscriber.

 fact, any other breed, are eligible show purposes; in fact, and pure-bred are show. If bird have the characteristuc type tell whether they are pure-bred or not.2. You had better remove the cockerel you have with your pen at once, an usually and
influence will be removed, and when introducing the other cockerel, the eggs
could he used for hatching any time after
the first week. In fact, sometimes eggs
cossi The catalague of Shorthorns and Clydescales, property of W. J. Shean \& sold by auction on April 4th, is issued, in both a sot of exich further referenco may he looked for in our next issue, In the meantime, send for the catalogue, which is full of information

Mr. John Jackson, Mr. John Jackson, Abingdon, Ont. your report of the Eastern Live-stock Show at Ottawa. In Southdowns, your
report says, 'Telfer Bros. got the majority of firsts.' The fact is, Telfer Bros. got two firsts and one third. J, Jackson \& Son got three firsts, two
seconds, a third, and a fourth. A difference that would be very misleading to our readers
the woodstock clydesdale sale The important importation of 40 Clydesdale mares and fillies, selected. by
Messrs. Prouse \& Innis, to be sold as Messrs. Prouse advertised at Woodstock, Ont., on April 6 th, are now on the ocean, and some particulars regarding the individual ani-
mals may be looked for in our next issue. We are informed that special care sue. We are informed that special care this consignment, and that they will be lovat champion sold Mr. A. Chrystal, Marshall, Mich., has Champion (imp.), to the Flynn Farm Co., Des Moines, Iowa. Lovat Champlon was bred by Lord Lovat, from the Royal Star, the sire of Alistair, champion at the West of England shows in 1904. and his dam is by Proud Duke, bred at Collynie. Lovat Champion was
selected by Mr. Duthie in 1899 for selected by Mr . Duthie in 1899 for
service in his
noted herd, and was purchased at a high figure by Mr. Chrystal.

Shires sell welt
At the auction sale of stallions and mares, held in connection with the annu60 stallions found purchasers at an aver age of $£ 9816 \mathrm{~s}$. ( $\$ 495$ ), the highest price being $£ 280$. ( $\$ 1,400)$. Five hundred guineas ( $\$ 2,629$ ) was paid for ore mare,
and $\$ 1,500$ for a filly in more than one and $\$ 1,500$ for a filly in more than one
case. The majority of the stallions were purchased by home breeders and societlies. but a good many found buyers privately, ca. (fermany and other countries Amerilooks as though the Shires are coming into general favor, and they are most

SHROPSHIRE SPECIAL PRIZES The American Shropshire Sheep Breed as special prizes for Shropshires at State Provincial and International Shows in \$500; the Canadian Naternational get $\$ 100$; the Ontario Winter Fair, Guelph $\$ 100$; Indiana State Fair, $\$ 150$, or one Chind as much as the State association gives for Shropshire prizes. Mortime to to the shepherd showing the fitted and conditioned Shropshires; all sheep entered in competition to be shown.
Mr. Wardwell will give two prizes of $\$ 15$ and $\$ 10$ to the shepherd showing the
best lot of breeding sheep; owners or

Settlers' Low Hates West. The Chlicago and North Wentern Ry. Will sell low, one-way, second-elaed April 7th, 1906, to pointe in Colorado Washington, Callfornis, Idaho, $\begin{gathered}\text { Oregon, } \\ \text { British }\end{gathered}$ Columbia. Rate from Toronto to Van eouver, Vlctoria, New Westminster, $\mathbf{B}$
C., Seattle, Wash., or Portland, Ore. $\begin{array}{ll}142.25 ; & \text { to San Francisco or Loo } \\ \text { Angeloen, Cal., } 844.00 \text {. Correspondingly }\end{array}$ Angoles, Cal., \$44.00. Correapondingly low rates from all points in Canad.
Cholos of routee. Beat of aervico. For full particulare and folders call on, or
write, B. H. Bennetto General Agmet,


きiffe, 急iterature


antu eratation.

 ing Him for a Diploma from a llusi-
ness College.

spective sides. This last matter we
effected oby sending typervitten copies
(bearing neither the name (bearing neither the name nor ades
dress of the writers) of the essays
selected as best selected as best to the the eaders,
"first-prize "winners, of the oppo ". first-priz
ing sides.
Now, as mentioned before, the de
cision in this debate rests wholly
with you the readers of our journal.
If you have taken no active part, and
A Affirmative-Essay I. A farmer should be one of God's
most perfect men, with all parts of
his mind as well developed as the
muscles of his stalwart form, Not
a mere machine, mechanically doing the work put before it, buty a diving
thinking man, with intellect thinking man, with intellect clear
and keen, fullv alive to the reality
of his life-work and of his life-work alive to the reality
which he has to deal. Torces with become such, the High-school Educa-
tion, to my mind, is tion, to my mind, is emphatically
preferable Reasons:

1. The Business 1. The Business-college Course recannot be so thorough as years of
High-school training. 2. It teaches but iww suljects
while the High School "docates allon many lines, and in a broder sense
2. Business Collige fits a man the higher and more difficuth than tom
of business life. but bookheepting. as
toubht taught in the Hish Schol, gives al
that is necessars for the farmer's work.
3. The High sishool turns out goonl
penmen. The. crampecd hand of the penmen. The "ramped hand of the
hard-working fanmore combet master
the extra flourishes of the Busines




$\qquad$
$\qquad$
$\qquad$
$\qquad$ essary consideration, we a we obliged
to reduce it to the names of the five who most closely combated for a
place with the prizewinners.
 however, was ruled out of the con- earth, the uir, water, and forcether of
test, since X. Y. Z. (W. J. Way) nature. He understands the value of In a prize last time.
Insideration, then, of all the
facts, we think no, facts, we think no, one should be dis-
appointed at not receiving a prizaappointed at not reciving a prize
As we have said so oiten before, the
mental exercise is the main thins and you have had that, and the sat isfaction, besides, of hearing from
headquarters that your work was
creditable creditable. We did not receive discouraged, but try again. Non't be
time you may come out at the very top. prizewinners this fime are Affirmative-Agnes Hunt, Nipissing,
Ont., and C. M. M., Middlesex Co Ont., and C. M. M., Middlesex Co.,
Ont. Negative-"Olivia," Simcoe Co., Ontegative-" and " Alivia," Spectator," Peel Co., Ont.
The Honor Roll--X. Y. Z., (hester
Nicholson Marouret Nicholson, Margaret Larle, Saster
Fraser, A. H. Taylor, Frank small. If we have a regret at all in con-
nection with our debate. it is that

where. This is an age of such keenl
competition that our men must be for other than a professional life, the
lansiness College is preferable to the Husiness college is preferable to the
OLIVIA.
High School.

Negative Essay II.
When a boy enters the High School he studies history, literature, and
very often languages, for four years. very often languages, for four years.
How will he who intends farming prolit by this when he leaves school? Granted that every one should know
the histury of the country and empire to which he belongs, he does High School to learn it. The voria ous iibraries throughout the countr farmer to read hooks annost every farmer to read hooks on this subject
if he cares for it: if he does not then few of the facts will be remem In this way the best literature within the reach of any one wh
wants it. Many of those who writ Wants it Many of those who write Omly those who go to the university
cer use it and certainly not the
farmer ever use it and certamly not the
iammer. Fuclid is studiod fatith-
mally. and oiten fearfully. for three
 bowheeping wery thme he buys or
sells anything. Heatso noeds to be
a clear writer. Many pupils say they wrote better before they went in-
1oy the 1 ligh schools than when they
came out, as incessant serib)
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ money increases by careful invest ment, and how well-spent money these
double itself in time. A11 the
things will be of use to a farmer iin wery branch of his work. Surely ii such a training were given to a
would-he farmer, would not the farmcrs of Canada be vastly improved at
the end of fifty years? Reply by Leader of Affirmative.


A Surrey Chalk Pit.
ege speciai stress is laid upon book-adventures in the tempting-looking caves


Wote-The Principal of a promi-
ment Business college informs us
$\qquad$
$\qquad$ A vagrant reveler in Nature's courts;
with wind-disheveled harr she wildy sports
$\qquad$
$\qquad$
$\qquad$
Maily everey day a crazy jest :
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$Hight,
apresHwin Cartile Titsey, in Everyhody's

## News of the Day.

 Canadian.Canada has been anxiously watch ing Dr. Haanel's experiments at the Sault in smelting iron ore by electricity, and the announcement of his success has caused greal satisactining Every year opens up new mining areas in Canada, and the cheapening of the smelting process by the new system wil gratly industry in promotion the iron industry every branch

The cobalt industry at Cobalt has The cobalt industry at received a new impetus A. Edison are on the spot, and are taking all the cobalt that can he obtained at 35 cents a pound. Mr. Edison is using the mitery which he is perfecting.

Mr. P. M. Murdoch, a ming ex pert from South Africa, has found near Cobalt, an agate of a species
only met with in diamondiferous soil or drift. His discovery gains more weight from the fact that indications
of a diamond-bearing area in Northof a diamond-bearing area in Northpeatedly by scientists during the
"** Canada to be

The first railway in Canada to be operated by motors run by gasoline generating steam, is to be built irom fort Credit

The first I.egislature for the new Western Provinces was opened at
Edmonton, Alta., on March 15th.

British and Foreign
M. Sarrien, the new Premier of France
inet.

The Chamber of Deputies has voted $\$ 100,000$, and the Miners' Association $\$ 40,600$, for the relief of the families of the men, 1,212 in number, who lost their lives in the recent
mining disaster at the Courrieres Mine, Lens, France.

Three villages in the Samoan Islands have been destroyed by erup**" have constitutional government modelled on that of England.
M. Sarrien, who has succeeded M. Rouvier as Premier of France, is a
moderate Republican. He was born moderate Republican. He was born
in 1840 , at Bourbon-Lancy, of which town he was afterwards mayor. In the war of 1870-71 he served as a
Captain of Militia. He was elecied Captain of Militia. He was electied, became Minister of Posts and Telegraphs in 1885 , Minister of the In-
terior in 1887. Vice-Pres. of the Chamber of Depmices 1896-98, Minister of Justice in 1898 . He was a
candidate for the Presidency of he was defeated by M. Fallicres

The prospect of a general eertion in the near future, has by no means Russia. In Moscow a large propor-:
tion of the workmen have refuisd lake part in the slection at all: and about declaring are being scattered aries will blow up the revolitionfices as soon as the election begins.
In the meantime. the Minister of Justice at St. Petersburg is hurried1y draiting laws to prevent election abuses, and it would appear that
the election itself must only bring the present discord to a crisis.

## THE FARMER＇S ADVOCATE

Cineerfulness in the Home Louisa M．Alcott，after telling tha keem bussy，＂motto was，＂Hope，an little incident in their family touching one illustrating the perfect faith， terized their lives．To a beautiful content with whatever might，in God＇s Providencé，befall them，was added a sense of humor，an unfailing the words of the worthy Mrs．Wiggs， to believe＂that the sun is a－shinin＇， even when the clouds is thick enough
to cut．＂The incident was as for to cut

One snowy Saturday night，when our wood was very low，a poor child
came to beg a little，as the sick and the father on a spreby was all his wages．My mother hesitated cold weather was upon us，and a Sunday to be got through beiore
$\qquad$ weather will moderate，or wood will come．＇ in her mother laughed，and answered is greater than ours，and if our heed gives out，we can go to bed and half stories．：So a generous half went later in the evening，while the storm still raged，and we were anout to came，und a farmer，who usually sup－ came，und a farmer，who usually sup－
plied us，appeared，saying，anxio：li－ ：．－I started for Boston with a load of wood，but it drifts so I want to
get home．Wouldn＇t you like have me drop the wood here？ would accommodate me，and you
needn＇t hurry about paying for it．＇ man went off，he turned and，as the with a look that much impressed
if the weather did not moderate？ Taughing eyes，Yos．Yes added，wit bread upon the wes．Cast thy many days it will－come back but
tered． Amelia Barr puts this opinion in
the mouth of one the mouth of one of her characters
in＂．The Hallam Succession，＂and truly it is one of general applich
tion：＂Ben Craven is good at home．You may measure a man by his home conduct；；it＇s t＇right placi to draw t＇line，you may depend says：＂And of them both the wiff of stuff that＇ll shrink in t＇wetting you ，can count on that，Miss Hall Sometimes when a life seems to nametimes when a life seems to be and anxieties，liese assume on un－
due importance，the grinding of one＇s due importance，the grinding of one＇s
own little mill absorbing all the faculties，whereas＂1 ，sgor god to ret
beauties and inspirations of a wider Cuthook．read，somewhere，that angels，in whose light or shadow wo walk continually．．．It is sometimes to get above our with our best ideas ＂．We can＇t none of us help what traits we start out in life with，＂＇What nother saying of Ben Craven＇s w with．＂The home that is full good cheer，in spite of its many limitations，is the best recruiting
ground for any country dren which come forth from it chil－ not be weak－kneed citizens， less pioneers，should they choose
strike out new paths strike out new paths for choose joicing Christians and helpful rades，inasmuch as the kevnote com－ 8 their busy home lives had been ch
fulness，their

Make Your Life Beautiful．
The desert shall rejoice，and blossom a
the rose．－Isa． 35 ： 1 ．
Give me this day，dear Lord，＂I cried
Gome blessed station near Thy side ＂Some blessed station near Thy sid Some work in very deed for Thee，＂
That I may know Thy need of mee．＂
Thus pleading，praying， Thus pleading，praying，up and down intent on task，the very best Intent on task，the very best
Eluding still my eager quest．
And morn to noonday brightened，nigh
Drew slowly toward the fading height， Drew slowly toward the fading height
Till I，low kneeling at the throne
With empty hands made weary moan． With empty hands made weary moan．
－Thou hast not any room for me ！ work was mine，dear Christ，for
whe Then sudden on my blurring sight Swept majesty and love and light－
The Master stood before me there In conscious answer to my prayer ！
He touched my eyes．In shame I blushed In shame my weak complaining hushed． For do all day，the swith hours throug
The work，Christ－given，for me to do
In mine own house had slighted been． And I，convicted so of sin，
Could only lift my look to His： Could only lift my look to His；
The grace of pardon ask for this：
That I had wandered far and wide． That I had wandered far and wide，
Instead of watching at His side That I had yet to learn how sweet
The home tashs at the Muster＇s feet．
$\qquad$

$$
\begin{aligned}
& \text { I wonder how many of our hard-work- } \\
& \text { ing canadian readers feel, sometimes at }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ing Canadian readers feel, sometimes at } \\
& \text { least, the desire to do great things with } \\
& \text { the wonderful }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the wonderful life they have received as } \\
& \text { a sacred trust from God's hands. Am I }
\end{aligned}
$$

$$
\begin{aligned}
& \text { wrong in thinking that you are all } \\
& \text { stirred with that feeling very often? Do }
\end{aligned}
$$

$$
\begin{aligned}
& \text { you not often chafe against the restric- } \\
& \text { tions of your scanty opportunaties of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { reaching out into the great world, al- } \\
& \text { most as a warhorse might grow restive }
\end{aligned}
$$

$$
\begin{aligned}
& \text { most as a warhorse might grow restive } \\
& \text { if forced to drag a plow when he heard }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the sound of the bugle. There seems to } \\
& \text { be something in each of us which wil }
\end{aligned}
$$

not let us settle down unconcernedly to

$$
\begin{aligned}
& \text { lead colorless lives. This desiie is } \\
& \text { great gift of God, and should be culti- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { vated rather than repressed, educated } \\
& \text { rather than destroyed. No one wants }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to live than dostroyed. No one wants } \\
& \text { to complace life, and God }
\end{aligned}
$$

surely cannot wish any of His children to

$$
\begin{aligned}
& \text { do that which is so contrary to their } \\
& \text { highest ideals and aspirations. But let }
\end{aligned}
$$

us never make the mistahe of thinking
that our lives are outside of us, that the

$$
\begin{aligned}
& \text { great ness or littleness of a life is a mat- } \\
& \text { ter of circumstances. of course, it is }
\end{aligned}
$$

$$
\begin{aligned}
& \text { absurd to fancy that a man's life, which } \\
& \text { is so much a part of his norsonality-it }
\end{aligned}
$$

$$
\begin{aligned}
& \text { is so much a part of his personality-if } \\
& \text { it is not his personality itself-can be }
\end{aligned}
$$

$$
\begin{aligned}
& \text { outside of him: and yet that very absurd } \\
& \text { notion is only too common. We hear }
\end{aligned}
$$

$$
\begin{aligned}
& \text { notoon is only too common. We hear } \\
& \text { people saying, or, if they don't say, they }
\end{aligned}
$$

## 

of God is in each child of man，and the
suul is never commonplace，it is in of God is in each child of man，and the
soul is never commonplace，it is intinite
in its longings and possibitities．Though
we may be only average people，receiv－
ing，like millions ing，like millions of others，only two
talents from our Master，the fact that w，
have received them from Him，and are
directly responsiblo have received them from Him，and are
directly responsible to Him for them，
brings us into a special relation with
Him which <br> \section*{wre omly rich，or clever，or beautiful，second．Nero was an emperor but that <br> \section*{wre omly rich，or clever，or beautiful，second．Nero was an emperor but that <br> or had that mysterious power of in－} fluencing others which has been called
animal hink they could help their fellows man if they only had time；but ea $h$ day is
so crowded with litule，trifling duties so crowded with litule，trifing duties
that don＇t seem to accomplish anything lastung．They read of glorious deeds of heroism，and feel rather．disappointed be－ cause no opportunity comes to them．
They know that God＇s saints ing nobly and patiently for Him in the fire of pain，or sorrow，or terrible temp－ tation；but no severe testing comes their
way．Their lives，like the lives of way．Their lives，like the lives of most
of their neighbors，seem tame and insignt－ ficant．At a superficial glance one might think the lives of millions were factory－
made，turned made，turned out by the thousand，all
exactly alike．of course，we know，as a exactly atike．Of course，we know，as a
matter of theory，that no two lives are
exactly the same，even in outward cir－ exactly the same，even in outward cir－
cumstances，but they are similar enough
to seem uninteresting if from the outside．Here and there we
find men outing only lood find men with＂five talents，＂- men of in－
fluence of various kinds；and there are also men here and there with＂．one
talent＂＂－ignorant，destitute，or hopelessly tatent－ignorant，destitute，or hopelessly
stupid．If we have no right to class
ourselves with the first，it is very unlike－ classes，we，we stand between these two
cant take our place as ser－ ＂two talents＂：forr，in the well－known
parable of the Talente，there is no nom－
tion of anything leetween two and five It is possible for the average prorson－
for us－to satisfy the God－given desire to
make this everyth make this everyday life brautiful，grand
and glorious，with the material God has
placed in our hands．It is in our power
$\qquad$ Certainly there is nothing arand in
sitting with foldeal hauls，dieamilus of the
$\qquad$us，left to be used for Him．Then it
will be useless to sort withportunity．Huch an excuse for spiritual
sloth is a veryit know who try to take refuge behindbear examination．You can make your
life grand and beautiful wher
has placed in your hands．The beauty
minther of our
village maiden village maiden
lovely a woman＇s life may be，while un
world will alwe mand
world will always gaze in reverent
miration at the womanly beauty of
（1）

Him，which redeems any lifitiof from the
danger of being uninteresting．When we
rcalize that Christ rcalize that christ is deeply interested in
cur fight and work，we must terested too．Work，we must become in－ It is a very strange kind of Christian－
ity that is sometimes preached－the trine that a sonetimes preached－the doc－
ice of consecrated to the serv－ Ice of Christ is hard and dreary，the doc－
trine that His servants have to wait for happiness until after death．No one who had really tried to serve Him whole－
heartedy would $d$ eam of saying heartedly would deam of saying any－
thing so untrue to fact．You have
$\qquad$
$\qquad$
$\qquad$
$\qquad$heart－attempting the impossible and
hearthreahing task of serving two mas－ters－ind life hard and disapopointing，and
are almost ready to declare thataverage person is worth the life of the
worth living－eachhought that the days are His，that the who are within our reach and children
work is His，that He is helping thenthat we are allowed to help Hirm in llis yct she seems to enjoy everything．great work of perfecting mankind．The found her doing the family washing the
most infuertial missionarles in the wonla
arewalk along＂ith joyous faces upplited to that such work was having a real good
the Face of the hing．＂doing the tashs．ing every little act of sorvice fireshding God＇s sight．Though He alone manmay be the it is done for Him．It notice each separate act of love，thoughOnly the washing of the cup after．Which if a fititing temple for His dwelling
ommonplace act of head，will of the when anyone is walking uith God inportunity of mintistering service is an op－That hich honor of beink a fellow．
worker with Gord may be yours every day
if you will
$\qquad$

MARCH 22, 1906
The Essay Competition.

 ossen get anad of you the next time. Ah
onost al the esayys sent in were worthy




0

##   Address Corner to all litters for Children's

A Book I Heve Read.


 ing adventures which ho has experiened
and makes us love lim trom the frot.


LOIs MACKINLAY (age 14). Charlotetown, P. F. I.

A Book I Have Read. The name of the book upon which I am
going to write is called t tells how a man in Fingland has had
a fortune left to him in Ame ica. He comes over to Ainerica only to find that
it has gone. He them makes friends witl


 - co. chrke m dufe.

A Book I Have Read.


David Copperfeld the son of a widow, who marries a hard,
nustere man. David, on rebelling austere man. David, on rebeling
against his tyramy, is sent to school. an his mother's death, he comes home.
On he then goes to London to work. All
He then his possessions are stolen there, so he goes to his only living relation, Betsy
Trotwood. She sends him to school Afterward he marries a wealthy lady. She dies, and he marries the daughter of his former master. $\begin{gathered}\text { MERNE } \\ \text { WILSON (age 15). }\end{gathered}$
Chatswor
$\qquad$

## Uncle Tom's Cabin.

To thoroughly understand slavery, nead Uncle Tom's Cabin." Atter living
peaceably in his little cabin for some peaceably in his little cabin for some
time. Tom was sold (to help clear his master of debt) to a traitor, who immediately sold him to a kind gentleman,
whose little daughter became greatly atwhose little daughter became grea of this
tached to Tom. The death of gentleman, a week before freedom papers were drawn, caused Tom again to be
sold to a brutal man, who, by whipping, sold to a butal mis first master's son came to free him. The cruelty suffered by Uncle Tom and oth terrible to read of. MARY R. SHIPLEY (age 15).

## Ten Nishts in a Bar-room.

Ten Nights in'a Bar-room " is an ex ellent book. It tellis of many highly graded through liquor. Simon Slade was once a kind-hearted and industrous miller He started to kecp a tavern, and in ten years his wife was in the asylum, and his son occupied a prison cell, charged father. My reason for liking this book is that it shows plainly the effects of
drinking, and is a warning to all young people to abstain from st to allink. people to abstain from strong arink.
ELIZABETH JOHNSTON (age 15)

## Swiss Family Robinson.

The French Revolution, 1789, when Louis XVI. and his queen were murdered, This book describes the effiect of the Revolution, not on the State, but on one Swiss family. A poor pastor (Velti, by name), his wife and four boys were
driven from Iriven from their beloved home. Escap-
ing to England, he went as a missionary to Port Jackson, but was shipwrecked and deserted by the sailors. By means of a raft, they reached a small island,
part of which was inhabited by savages. part of which was inhabited by savages.
Here they lived for four years. They had a great many comical and interesting adventures.
Reasons for liking the book: (1) It is full of adventures. (2) It is instructive.
(3) It has a good moral.
Hent.
All letters intended for the Children's Corner should be addressed to Cousin
Dorothy, 52 Victor Ave., Toronto, Ont.
$\xrightarrow{ }$
 powder and the juice of half a lemon.
When cooked, mix with 1 hard-boiled egg
(chopped), and pour into a shallow dish. Now cut the other hard-boiled eggs, as many as necessary, in two, lay gently in
the sauce, with the yolks showing, and the вauce, with the yolks showing, a
serve with a border of boiled rice.

Spring Housecleaning Hints. Matting.-Allow six inches at ends for
turning under, and hem. Spread newspapers and carpet-lining under to make
it wear well. Matting may be cleaned it wear well. Matting may be cleaned
with dry corn meal. If very dirty, wash
with weak salt and water, and dry well with a dry cloth.
To Clean Carpet.-Beat, and sweep out To Clean Carpet.- Beat, and sweep out
of doors, damping the broom in clean cold water at frequent intervals. Brooms
for sweping carpet should be wet in for sweeping carpet should be wet in
boiling suds once or twice a week. This toughens them, and helps to keep them from cutting the carpet. When sweeping
the carpet, salt or almost dry tea leaves the carpet, salt or almost dry tea leaves
sprinkled over it are good. The sweeping should always be done along with not across the pile. Mixtures of am-
monia and water (2 teaspoons ammonia to the gallon), and vinegar and water (a cup of vinegar to a pint of water) are
often recommended for brightening carpet.

Both are good, but for different colors.
Before using, it is well, if possible, to try a little of each on a turned-under portion, and use the one that is most effiective. . To clean spots on carpet get
ten cents
worth soap-bark; steep ten cents' worth soap-bark; steep a few
bits in hot water, and rub the soiled spots; rinse with clear warm water, and rub until nearly dry. II the carpet is
very dirty, beat, and clean as above, and very dirty, beat, and clean as above, and
tack down. Take a bar of laundry soap, and shave in enough water to dissolve
(a pint or more): let meltt (a pint or more); ler melt on stove; remove, and, when cool, add half an
ordinary bottle ammonia. Apply with ordinary bottle ammonia. Apply with a
stiff scrubbing brush, and wash off with a cloth wrung out of clear water, using as little water as possible. See that the
carpet is not walked on till dry. When " laying" " carpet, place on floor, Whal tack along the ends of the breadths and one knd of the room. Now, stretch, and tack along the opposite end, leaving the
sides until the last.
Ti sides until the last.
To Clean Wall Pa
with dough or stale bread. To remove grease spots, rub gently, once or twice, pipe clay and water; let dry, and brush off. Blotting paper and a warm lrush
are also often eflective in are also often effective in removing grease
spots.

## $4 ; 4$

"He's making for the Big Swamp eyes and, ears on the alert, expecting every moment to hear the snort
a bear, or to meet him on the fur
ther side of ther s
brush.
For an hour they went on at a

## Glengarry School Days.

THE FARMER'S ADVOCATE

By Ralph Connor-Rev. C. W. Gordon.

## 


steady trot, over and under fallen
logs, splashing through water holes,
crashing over dead brushwood and tearing through the interlacing boughs of the thick underbrush of
spruce and balsam. The black dogs spruce and balsam. The black dogs
never hesitated. They knew well never hesitated. They knew well
what was their business there, and
that they kept strictly in mind. Fido, on the other hand, who loved hunt for any and every wild thing that might cross his nose, but who had never seriously hunted any-
thing in particular, trotted goodthing in particular, trotted gooda bored expression on his face.
The trail, which had led them
steadily north, all at once turned steadily north, all at once turned
west, and away from the swamp. "Say," said Don, "he's making for Alan Gorrach's cabin.", would be fine, to get him there. It's good an
ed Too
Don
there",
here." We'd never, grunt Sure enough, the dogs led up from the swamp and along the path to
Alan's cabin. The door stood open, and in answer
Alan came out
at Don.
$\qquad$
$\qquad$
o-day, Mlan ?" said Don, politely. Alan glanced at him suspiciously but ss
./. Th
deed,
the only thing to do is to lie still
and make believe you're dead, and
then, unless they're very, hungry,
they won't hurt you much,"
After half an hour's rest, the hunt-
ing instinct awoke within them, and
the boys determined to make another
attempt. After circling about the
swamp for some time the boys came
upon a beaten track which led
straight through the heart of the
swamp.
rooster. If they ever do catch you,
the only thing to do is to lie still
and make believe you're dead, and
then, unless they're very, hungry,
they won't hurt you much,"
After half an hour's rest, the hunt-
ing instinct awoke within them, and
the boys determined to make another
attempt. After circling about the
swamp for some time, the boys cane
upon a beaten track which led
straight through the heart of the
swaanp.
"I say," said Don, "this is going
to strike the ridge somewhere Just
about there,", pointing 1 orth-east,
"and if we don't see anything beand if we don't see anything be-
tween here and the ridge, we'll strike home that way. It'll be better walking than this cursed swamp, anyHughie refused to acknowledge any
weariness. "Well, then, I am," said Don.
The trail was clear they, were able to follow at a good
pace, so that in a fow minutes they had expected, they struck, the
northeast end of the swamp north-east end of the sivamp. Here
again they called a halt, and tying up the dogs, lay down upon the dry
brown leaves, lazily cating the beech brown leaves, lazily eating the beech-
nuts and discussing their prospects of meeting the bear, and their plans
for dealing with ". Well, let's go on,", at length said
Don. " There's just a chance of our meeting him on this ridge. He's got a den somewhere down in the swamp,
and he may be coming home this
way way. Besides, it'll take us all our
time, now, to this time, now, to get home before dark.
I guess there's no use keeping the dogs any, longer. We'll just let
them go." So - These black ones are not in very
ood condition, but Fido there is a them go." So Saying, Don let the
black dogs go free, but, good, fat dog,"
Alan's wrath began to rise. black dogs go free, but after a little
skirmishing through the open beech woods, the dogs appeared to lose
all interest in the expedition kept close to Don's heels.
Fido, on the other hand, followed,

Aiter a few minutes he stood still
and called or for Fido, but the dog had
gone on some hunt of his own, and
with a sense of deeper loneliness he with a sense of deeper loneliness he if he gets away after gido hagain, Aind
set himself again to his strugrle set himself again to his struggle with
the moss and brush and fallen trees. At length he reached firmer ground,
and began with more cherer and began with more cheerful heart
to climb up to the open. Suddenly he heard a rustle, and saw the brush in front of him move. Fido. Here, sir !',
He pushed the bushes aside, and his He pushed the bushes aside, and his
heart jumped and filled his mouth.
A huge, black shape stood right across his pacth shope stood right a moment they gazed at each other, began to sway awkwardly toward
him. Hughie threw up his pinn and fired. The bear paused, snapping viciously and tearing at his wounded
shoulder, and then rushed on Huchic without waiting to rise on his hind legs. Like a flash Hughie dodged behind the brush, and then fled like the wind toward the open. Looking over his
shoulder, he saw the bear shambling shoulder, he suw the bear shambling
after him at a great pace, and gain ing at crery jump, and his heart
froze with terror. The halsams and spruces were all too low for safety,
A litele way hefore him he saw a
small birch If he could homly




springing for the lowest hough, drew draged himselif away put of Ferchthe horrible feeling of having whem rid of hear. realizing that he had got
scrambling up the tree aiter him,
but was still someFido skirmishing at long range. It
was Fido's timely nip that had
broupht himafety
Good dog. Fido, Sic him: Sivarfare and at cvery jump, kind of the prot his gum he menaced his app-ing, however, to the attack as the droaned. Ah, here into his they are he
bear retired.




the hunter's instinct awoke within
him, and he longed to get that bear
If he only had his gun he would cown

o lose our head
ing quite cool and smlf Houshessed feet
, timeo're done fou lose your head"No," said HughieDidn't you ever hear that? Whye ran into a hear, and made ahear, with one paw knocked the axeclear out of his hand, and with one
right wat Ther're mighty cutc

MARCl1 22, 1906
THE FARMER'S ADVOCATE
of a far-away shot in his ears and
Clarkness veiling his eyes. He was awakened hy Don's voice
anxiously calline him " Are you hurt much, Hughie? Did Hughie sat up, blinking stupidly. Why, the bear, of .. The bear? No. Man! It's too had you weren't here, Don," he went
on, rousing himself. "He can't be gone Not very," said Don, laughing loud. "" Yonder he lies.""
Hughie turned his head and gazed, Hughie turned his head and gazed,
wondering, at the great black mass over which Don's black dogs were
standing guard, and sniffing with supreme satisfaction. snifing with Then all came back to him.
"Yeseres fit was Fido saved me, for
sure. He tackled the bear every
time he time he rushed at me, and hung onto him just as ${ }^{1}$ As he spoke he walked over to the place where he had last seen the dog.
A little farther on, behind a spruce
tree, they "rrit Indeed," cried Long John, ree, they found poor Fido, horribly ""Where is Hughie?" said the min- ace Yon's a terrible gash," said Long
mangled and dead.
ister, sternly.

Hughie came from hehind the brush,
urriedly wiping his eyes. "Here, . And what are you doing here yaid the minister, angrily, pray?" ". I couldn't get home very well," And why not, pray? Don't being any excuses with me, sir." Nothtempt to excuse ill-doing
". I guess he would have been glad
enough to have got home half an hour ago, sir," broke in Don, laughto the bear, lying dead, with Nigger standing over him. "The Lord save us!" said Long
John Cameron, himself the greatest among the hunters of the county.
you get him? Jee-ru-piter! he's a

The old man, the minister and Don
walked about the bear in admiring
procession. Long in
 and sure all of the other Chatterers will, with $\begin{aligned} & \text { haps, but when hearing of him one ferls } \\ & \text { ane, give them a hearty welcome. of the British blood. which } \\ & \text { makes one fiel like shouting, : Hooray }\end{aligned}$

Take Notice!

## From an English Woman




the breast. "Was that your Snider "Not a bit of it, father. The bear's Hughie's. He killed him him" Losh me! And you don't tell that, And how did you manage "He chased me up that tree, and Fido."
The minister gasped.
"Got you? Was he as near as "He wasn't three feet away " said Hughie, and with that he proceeded to give, in his most graphic style, the bear. said Don, "I was away across the swamp. I tell you I tore back here, and when I came, what did I see but Hughie and Mr. Bear both sitting
down and looking coolly at each down and looking coolly at aach Nigger downed him, and I put a bullet into his heart." Don was greatly Hughie's achievement
$\qquad$
they go in, or they will go to pieces.
Just keep it simmering: 2 small cups spoons chopped herbs (sage, $1 \frac{1}{\text { tean }}$ tearsley,
etc.), a little pepper etc.), a little pepper and salt, it tea-
spoon baking powder. Make into a stiff. dough with cold water ; make into balls;
drop into soup and cook one hour, turnVg over at times.
rood one. Perhaps we can reunion is a for Empire Day
I think our boys are silent, not beciause they've all given up housekeeping, but be-
cause we've neglected them a little lately Perhaps they'll come back. We don't want to shut them out of the Ingle Nook. By the way, have you read Ten-

The "Paw" from P. E. I. An Extended Paw ". writes that sho all the chattering. She sends recipes for anbury tarts and lime in kettles, which we do not insert, because so many other
recipes had come in before hers, but we thank her all the same. Our members will be interested-and sympathetie-at
knowing that our P. E. I. friend has been in bed ove
"This is the first time I written to any paper, althoughilit am always glad to read letters from other your much-esteomed journal. . . And here I may add a little confession. I
am lying on my back doing all this seribam lying on my back doing all this scrib-
bling. Just now I told the nurse have about cleaning a bottle about the shoulder inside with the salt and vinegar
which I read about a short while aro in which I read about a short while ago in
" The Farmer's Advocate." She took it out of my sight, and said " no." I the asked her to hand it to me. I got her to put 1 tablespoonful vinegar in, elso In half an hour I had all cloan a basin lie only about ten minutes, then took a small piece of cotton, fastened a cord to wood, cleaned it out to piece of hardMy hand is trembling so T will stop.

## - Hats Chocolete

Cleaning Scraw Hats Chocolate

## Icing

the first time I I have written to the
Ingle Nook, I have been a reader of the Ingle Nook, I have been a reader of the
Chats for over two years. and have been interested. Would you kindly tell bea way how to clean a white straw hat that has been worn and hecome soiled; and also a recipe how to make chocolate
icing? Huron
Brush the hat well,
juice. then with sulphur, let dry aith lemon
brush well again brush well again. Repeat if necessary.
For the icing. and chocolate fine, add two-thir a cake of half a cup of sweet creame cup soil angar. beat to a paste. When haif cold ruit and

of every housekeeper to be economical． buy one flour for bread and another for pastry is not economical．There is no necessity for such expense，as＂Five Roses＇ Flour is equally good for both if used the ＂Five Roses＂way．The worst results ob－ tained with it are better than the best ob－ tained with ordinary brands either for bread or pastry

Lake of the woods milling company，
Limited．


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It will save many a wearisome drive for sup－ plies．Tender－tasty and meaty．It is just sweet beef－boneless and wasteless，with a fine spicy flavour．It needs no preparation，just open the tin and serve．Clark＇s Corned Beef means better and more economical meals－just what you want．Order a supply now
WM．CLARK，Mfr．
Montreal．



Re Dablia and Canna Seeds
 Poppies（white to crimson），Coreorn
（yellow and crimson），Crimso $\underset{\substack{\text {（yellow } \\ \text { Perenrial } \\ \text { and } \\ \text { Delphininium }}}{\text { crimon），Crimso }}$ （thoms late，but is valuable for teathery
（oliage），Summer－flowering Chry mums（white to yellow）．The col which harmonize must，of course，，，i， Outsido of thess again，for the lowes
edging，wo would recommend Cund Alyssum，Mignonette，Ageratum（blue） Dusty Miller（White foliage），Feverfew
vellowish－rreen
focliage） Dwarf Nasturtiums，Geraniums． For veranda or window boxes．Trailing
Nasturtiums Nasturtiums，to droop outside，with
Geraniums，Heliotrove．Ageratum＇whit verbena，will to found to do well with
 Hellotrope，Fuchsias，Maurandya，Whit Fuchisis，IVy Geranium，
Asparasus，
Bosto Paper Bags for Seedlings． Ans．－Canna seeds may be started in
Uate winter in flats（shallow boxes），with

Paper Bags for Seedlings． a good bottom heat．or in a hotbed． Sandpaper each seed off on the end op－vocate＂told so often that the maga．
posite the germ until the white shows，zine is getting better and better all the Chen soak an hour or two before plant－time that they are geting tired of hear－
ing．When large enough to handle，ing it？However，it is the truth transplant，very gently，into to thmb pots，albout it，especially the parts that most
and put in a warm，sunny window．Shift particularly interest women． and put in a warm，suny window．Shit particularly interest＂omen．How thes
as often as neecessary until all danger of luright days remind us that our paint frost is past，then set out in deep beds and paper，and our household furniture
of well－manured muck．At all times pive generally，are getting shabby，nd we are plenty of water and good drainage．rather impatiently waiting the coming
Sead sown in Ferruary or March should of spring so we can Teiuvenate the inside give blooming plants by the end of June．of the hoose wo ns to be more of a match seed in flats，or in a hothed Plant in many make small paper boxes－I use drills，two inches apart，and cover with newspapers－in which to plant delicate about a quarter of an inch of scil．Keep
warm and damp． $\begin{aligned} & \text { Transplant that must be started in the house ？}\end{aligned}$ when Take pieces of paner ahout tor inche ready，and plant out in the open when all square，fold up in the shape of a box，
 easily started in this way，and often five turbed，as the box can he planted．
sururite diss
The
 Vines and Border Plants for Sunny Veranda．

$\qquad$





$\qquad$ Recipes． 0 Dear Florist．－Thank you very，very some time ago．May 1 ask you
hing more？
In the seed catalogues，I have seen advertised the seeds of Dahlias
 Her to by the roots？
Herhaps this will some free
well quenter of your corner：Last spring in
an angle fornued by a south wall and west one．where the sun came only a
few minutes in the morring， 1 planted Climbing Nasturtiums．The seed was with earth and placed in a box．It is seeds．The Nasturtiums bloomed all summer long，and were visited by hum－
ming birds from morning till might．
 rightened up an otherwise dark co，
here few other things would grow，
$\qquad$ re the editors of＂．The Farmer＇s



THH MORGAN
INOUBATORS AND bRO
( AND bROODERS

"Whew : What ! Lottie Brown en-
gaped ? That proves what r've alwaye gage, that no matter how plain and bad
said, tempered a girl may be, there's always a
fool ready to marry her. Who's the poor rool read
man? ".
" I am."

## Women Angrily Aroused

ALL OVER THE DOMINION
 women have been deceived and induced to use the weak and adulterated package
dyes put up ty unskilled and unscrupibdyes put up hy unskilled and unscrupuIous manufacturers to
lar DIAMOND DYES.
Our Canadian women, thoroughly aroused, after lose of time, money and
valuable materials through the us of valuable materials through the use of
muddy, blotchy and weak dyes, mirdy, blotchy and weak dyes, have
directly laid the blame for their losses on the retail merchants who sold them the This action of indignant women has caused many of our retail and wholesale deale s to pack up and return to the
manufacturers responsible, their worthmanufacturers responsible, their worth-
less and dangerous dyes. less and dangerous dyes.
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hrated and popular DIAMOND DYES, hrated and popular DIAMOND DYES,
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jacket, cape or husband's or son's coat jacket, cape or husband's or son's coat,
vest or trousers. Allow offer you the something he calls "JUST DIAMOND NY other dyes equal the Send your nam
\& Richardson Co., Limited Mours to Wells Q., and you will receive, Mree of cost new Dye Book, Card of Dyed Cloth,
Samples and Booklet in " The Longjohns'. Trip to the Kiondike."


MARCH 22, 1906
QUESTIONS AND ANSWERS.
Miscellaneous.
drainage act.

THE FARMER'S ADVOCATE. registry numbers.


| TRANSPLANTING PEONIES. <br> Home Maga- <br> CLYDESDALE NUMBERS. <br> give stuctowok number of im- <br> lydesdale stallion named Honest <br> also Colston Leader. <br> A SLBSCRIBER. <br> Honest Sandy (imp.) [67] (387); framon 1871: imported in 1874 by C. F. Wason, Brucefield. We do not find ColWe find C'olston Prince [1336] (7599); foaled 1887, imported, 1889, to Fore:to Ly Wim. Mackie, Colston, Scotland. <br> PAYING OFF A MORTGAGE. <br> A has a mortgage on B's property for a stated term of twenty years. Can B close this mortgage at the end of tive years, or any succeeding five years, or must the mortgage remain in force for |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |Ontario. truly rural.Ans - B is entitled to obtain a dis-

charge of the mortgage at any time aiter
the expiration of the five years, by pay-medicines and merds for in-foal

2. Should a colt be haired at nine
months' conception?
3. Is wheat bran safe to feed a mareAns.-1. Neither of these drugs in prope
doses is injurious to an in-foal marevery short and very fine.
3. Certainly
$\qquad$feed than wheat bran for any kind of
farm animal, except, perhaps, hogs, in al
OWNERSHIP OF AN ANHMAL
A sold is a mare last summer, and was
to wait until January for his pay. In
February B brought mare back Lo A, and
said he would not pay for her. A A told
B before witness that unless B paidwithin three days he would sue for price
of mare. B paid full price,he did not want mare, price, but told $\mathbf{A}$
maid $\mathbf{A}$ couldhe disposes of as not the mare?
Ans.-We do not see that
upon to take any legal steppears to be a case of abandonment $t$,
him by $B$ of the animal, and he is,
MIXING sWEET WITH sOUR CREAM.

1. Is it good practice to put swee
reeam in with sour cram, or is it
letter to
together? let We have a sour before putting
wourd like to know. We tator, and
wo tare The
reading it.
2. What is the cause of butter going
in little lumps when it comes?
Ans.- -1 . Separator cream should
immediately cooled by setting in cold
watercold, add to the cream-crock, and st
thorouphly. It is not well to add the
morning's cream the day of churning.
3. Ao not quite understand the ques-
tion. Butter always comes in small
particles before it gets into larger onesparticles before it gets into larger ones.
We draw the buttermilk when the gran-
wles are the size of wheat grains.ticles, and refuses to get larger, it it is a
sign the cream has been poor in butter
fatt and the the
He slowly. If this does not try churn-
several cuarts of water, a little above
times. I.et churn stand a minute or
two, then draw off half the buttermer
two, then draw off half the buttermilktwo, then draw off half the buttermilk,
and churn slowly. In a stubborn case
it may he weensary yo draw off stil
more buttermilk.
LAURA ROSE.

\section*{| POUNTRY |
| :--- | :--- |
| CNGGSON |}




 and




 B
 Colior rarri prymoutr kook fotines: 1 Iu one tor
$\mathrm{E}^{\text {agas for }}$ Hatching - Purabred atonk



 Kom imported nolk Altrod E. Bhore, White



 For Bith Brod Rod ous. for hative



 AYRRs, Gratat paserr: prisewinin











 187 , soolana, Ontario

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 AB Bathurot int., orker Loidon, oan. attelitin ! PoultrMmell.
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9 and 15 months old, of choice breeding
9and 15 months old, of choice breeding
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QULSTIONS AND ANSWERS． Veterinary．
stallion sluw to serve Stallion refuses to serve young mares．
He proves sure when he can be induced to serve．He stands for service at his
own stable．I think he masturbates，and I keep a shield on him．W．M，and Ans．－Characteristics of this nature，
Whether from congenital weakness of the genital organs，or from other idosyncra－ sies of the stallion，are hard to over－
come．Medicines do no gaod；certain
medicines will increase the venereal medicines will increase the venereal appe－
tite by causing irritation to the genitals and will probably have the result of lorm the functions of a sire erently per not produce foals under such conditions and the practice is injurious，hence we
never prescribe drugs．Feed moderately never prescribe drugs．Feed moderately
well on good hay and oats，with a car rot or twood dinay and onts，with a a feed of bran w
a little linseed meal twice weekly soon as the grass grows，allow him
have some every day．Give him regu have so
exercise，
exercise, of not less then 8 to 10 miles
daily, and do not require him to sime
more than one mare on any day.
BLACK QUARTER.
Healthy two-year-old steer bega
swell on his shoulder artaren
swell on his shoulder, and was lame;
swelling increased, and
pressure. He died inside of ware to
Is it contagious, and is there any curs.
Ans.-The symptoms gubscriber.
black quarter, for which there is prace-
tically no cure. It is caused by yrate
ticaly no cure. It is caused by young
cattle pasturing on or eating hay tingt
grew on low-lying pastures. Prevention
consists in keeping pastures. Prevention
stock away from in
hosis is correct) you should cease feeding
the hay you fed to this one. Immunity
can be given with
can be given with reasonable Immunity
although it may not act in all cases,
which, with instructions and the
sary instruments. can be procured nec
manufacturing chemists
should be burned. Of comists. All carcasses
may have received a severe injury to the
shonlder that caused death. If If you have
any more trouble, call your veterin

## While plowing last Ma

commenced to step short way，my horse
foome．and was a little fore
ing．Ne．Next morn－
ing．has very lame and swollen on the ing，he was very lame and swollen on the
side of the neck．I called a veterinarian，
and he said it was probable an absces and he said it was probable an absesss
＂as formung．He got very thin，but no
abscess formed． abscess formed，and he commenced to re－
cover，and got all right in three months．
f－started to work him train cover，and got all right in three months
f started to work him again，and he
went all right until Sept cmher 20th，
＂hen he arain went ＂hen he again went lame，and has re
mained so．His shoulder has falle
nway，and so have the muscos log．I blistered for sweeny without re－
stults．He appears unahle to fetch the
leg forward without troulle． Ans．－The horse has sprained the mus
cles of the shoulder．causing a bad cas
of sweeng of sweeny．Shoulder．causing a bill require a a a long time
Ior recovery to take place．You will． in all prohability，have to give will．
several months＇rest，and blister the
shrunken muscles once every month tails for blistering are given month．De－
in answer to question by S．A．M．V． Filly got kicked on hock Filly got kicked on hock．The joint oif
escaped freely．It has healed，but the
joint is rreatly contain fluid，and she is very lame． Ans．－It is seldom a case of open joint
like this recovers．If the swelling contains fluid，it will break out again If it has not broken by the time you see this，blister it with $1 \ddagger$ drams each，
biniodide of mercury and canther mixed with
$\left.\begin{array}{l}\text { hair off，tie } \\ \text { parts．}\end{array}\right] \begin{aligned} & \text { Rub }\end{aligned}$
two applications ：
off and apply
now，and o
now，and
blistering on
not probable it will enlargement，but
$\qquad$
inversion of vagina and rectom． $6=$
 said he could do nothing．
Ans．－The womb is not inverted have been caused by constipating nus paction of the colon．It is very prot as the case be dead before you get this erinarian saw it that he could do nothing Treatment consists in thoroughly wasning both vagina and rectum with warm wate with ten－per－cent．laudanum，then dressin with alum water． 2 ozs．to the piut，r
noving all feces from the rectum，retur ing both viscera and applying a truss t prevent reinversion．The truss consists
of a piece of leather or other substance placed against the anus and vulva， kept there by ropes tied to a collar Che filly＇s neck．A man must exercise
own ideas in securing the truss，as shape and mode of keeping it in place will depend greatly upon the form of the
patient，the idea being to apply suffcient pressure to prevent reinversion．She
should be given and should be given about $1 \pm$ pints of raw
linseed oil to act gently upon her bowels， and the truss must be removed occasion
ally，say every five or six．hours，to alt ally，say every five or six．hours，to al－
low her to defecate，and after defecation low her to defecate，and after defecation
a little of the alum water，heated to
100 degrees Fahr should bo injected io 100 degrees Fahr．．．should be injected in－
to each passage．Careful treatment will to each passage．Careful treatment will
effect a cure in mild cases，but in such case as you describe，where there
double inversion，and that of the rectur
so extensive it is not probate so extensive．it is not probable that $r$
covery would result from any treatmen． bursal entargement．
Clydesdale mare has bursal enlargemen
I have blistered several times，withou Ans．－（Chronic bursal enlarements ar
very hard to reduce，and when repeate
bistering other applications often fail a reduction
liniment coo．Try liniment composed of 4 drams each re
sublimed
iodine crystals and iodide o Rnd alcohol．Run a A little each in with sering
friction once daily Iriction once daily．If this fails，a
operation might be successful；but th
advisality targely upon the nature and situation fatality in pigs about three weeks old，the pigs failed
away，got very thin away，got very thin，panted for breath
and all but four died． $-2=$ $=5=\square=$ シャロージ $x=-=$ $y=\mathrm{v}^{2}=\mathbf{y}$
sfallion refuses to serve． Hackney stallion， 8 years old，kept
owner＇s stathe for private uss，and w
is never bred to more than 20 mares
$\qquad$
$\qquad$

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now．Willilhed Exclusiv territory kiven Writ
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## WINE,

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ontario.
ONTA
Proorietors. ker Menestrel MI. was second, and Mr.
Barr's Nailstone Romulus, third. In two-year-old colts, Earl Egerton had
first place with Tatton Dray King: Frank first place with Tatton Dray King; Frank
Farnsworth; second, with Ratclife Forest King, and J. H. Bryars, third, with
llunsmore Commander. For yearling colts, F. Farnsworth was first with Rat-
cliffe
Conquering cliife
second
Conquering
with
King $\underset{\text { Forest, }}{\text { King. }} \underset{\text { R. }}{\text { R. }}$. Craig, iotd, third with Rustic Friar.
The gold chaHlenge and champlon cups The gold chaHenge and champlon cups
went to Present King III. The cup for best stallion in the three younger classes
"ient to Earl Egerton's Tatton Dray king. The challenge cup for best mare
ur filly went to Messrs. Forshaw's gray whre, Sussex Bluegown. Forshaw's chay thp for mares in the three classes, one
three yoars, went to Dunsmore Huchsia, another gray, shown by Sir P.
A. Muntz.
and Messrs. Forshaw's Hargrave Harold,
third. In the threo-year-old class, Lord
Rothschild's Childwick Champion was first. Mr. Victor Cavendish's. was
cossip.
Volume 28 of the Engtish Hackney (habor has, throught the courtesy the Secretary, Mr. Frank ix. Euken, 12 Hancuer Squere, Londotw, twen received at thin offce. It to a abbtantial
volume of 500 pages, containing pedigrees volume of 500 pages, containing pedigrees
of stallions- numbering from 9,077 to 9,515, and marei from 17,075 to 17,872, inclusive, and much other information,
together with illuetrations of champion stallions and mares.

The London Live-stock Journal Al manac or Yearbook for 1906, beautifully
inlustrated with cuts of prize stock and other features, has been issued and may be had for one shilling by addresing Ludgate Circus, London, England. It contains 336 pages, choke-full of useftil
information regarding the various breedi of live stock, poultry and doga.

A yorkshire sale. Attention is called to the advertisement, on another page, of the auction Haysville, Ont., of 55 head of registered Improved Yorkshires, and the 100 -acre arm. The Yorkshires are bred from the 2nd and Dalmeny Emperor are imported and Canadtant-bied-Dalment Lassie the Summer Hill stella, Woodstock Lassie and others of equally good safe in pig, are bred to a very promising, sale in pig, are bred to a very promising
young boar, Summer Hill Gladiator, bred rom imported stock.
The
farm oltered is lot 28 , con. 8 Block and Wilmot Tp., Waterloo Co., rich sandy loam, under good cultivation, all iall plowing done, 20 acres fall wheat, 35 good young orchand, artesian well, i-ecte $55 \times 60$ feet), frame house and other out bulldings, conventent to school, churches, post office and railway stations
(New Hamburg and Bright, G. T, R.).

THE LONDON SHIRE SHOW At the London (England) Shire Horse prizes in the aged stallion class, 16 hande 2 in., foaled in 1897 to 1901, went as follows: J. Forshaw \& Sons', seven-
year-old black horse, Present King II. by Coming Prince, got first awand by docision of the umpire, his superior action counting for much in carrying him to ton Friar, by Conquering Harold, exhibited by Earl Egerton, of Tatton, was second, and Lord Rothchild's Girton Charmer was thind. Messrs. Forshaw,
Carleton-on-Trent. Newarks first in the other two classes of aged
horres, namely, for stallions over 4 and under 10 years, and under 16 hands 2 in .,
with Ren with Raydon Duke, and also in the class
any height, over 10 years old, with Bay Thumper. In the former class, Childwick Harold, shown by Alfred Nuttall, was second, and R. W. Hudson's Celtic, third. Blythwood Conqueror was second, and Mr. Humphrey's Hendre Baronet, third. In the class for four-year-olds, the King's entry, Ravenspur, was first; Capt. Dunand Messrs. Forshaw's Hargrave Harold

The Farmer and Stockbreder Year-
book for 1908, the s2nd year of issue, book for 1908, the 42 nd year of issue,
has been received at this office, and, as uas been received at this offfce, and, as
urize, is brimful of first-clesis pictures of
primals and ueful tinformet on prize animals and useful information re garding the various breeds of stock, an
the state of trade in each at home and abroad. It contains 290 pages, and is
sold for one shilling $(25$ centig) sold for one shilling (25 cents). The ad
dress is 6 Essex street, Strand, Eress is 6 Essex Street, Strand, London

Mr. S. . G. Carlyle, Chesterville, Ont.
writes : , I received six answers to my writes : "I received six answers to my
udvertisement in 'The Farmer's Advo cate' of Clydesdale stallion, Dundonald
 (March 8th) to Mr. Neil McLeod, of Laggan, Glengarry Co., at a good figure
Mr. McLeod fo to be congratulated on gotting such a good colt, as Dundonald possesses quality to a high degree. He
hes good feet, good, clean, fet hes good feet, good, clean, flat legs, broad chest, well-sprung ribs, short,
trong back, closely-coupled, and stylo and strong back, closely-coupled, and sty
action that cannot be surpassed."
Mr. R. R. Ness, Howick, Que., writes un der date of March 14th: "I am sailin number of Ayrshire cattle, and will be
pleased to attend carefuly to pleased to attend carefully to any orders will be : Care of A. Mitchell, Esq., Barcheskie, Kirkcudbright, Scotland. Business has been brisk in Ayrshires. Can't get bulls enough to supply the demand, will also land a number of Clydendale mares and a few stallions about May 1
a great sale of shires. Our readers are again reminded of the unusually important auction sale, on March 28th, of imported and home-brod Shire Aassions. Morris \& Wellington, of Fonthill, Ont. The catalogue contains the pedigrees of 10 stallions, one to five yoars old, and 18 mares and allies. Three of
the stallions and 18 of the mires are imported, nearly all the balance being bred direct from inported sire and dam. The sale will commence at 1 o'clock on tory, corner Simeoe and Nelson Streets, Toronto. These horses and mares are exceptionally well bred, and are the big, heavy class, with good flat bone and strong
constitution. The matured stallions have proved very sure and good getters, while the mares are the right class for
work and breeding the high-glling sor work and breeding the high-selling sort of
horces now in great demand, and sure to horses now in great demand, and sure to
be for many years wanted in large numbers. Send for the catalogue to the auctioneer, Mr. C. A. Burns, the Repository, Toronto, or to the proprieto
Morris \& Wellington, Fonthill, Ont. .
Mr. Wm. Smith, Columbus, Ont., writes: "I have recently sold the fol-
lowing lowing
Barnett, Brooklin, Ont., a ifteen-monthsord calf, sired by Ben Lomond (imp.) (80468) $=45160=$, dam Daviot Beauty (imp.) by Craibstone (68885). In this call, Mr. Barnett gets something that
should be heard of later. To J. M. Gardhouse, Weston, Ont., Dalmore, a real good sort, sired by Brooklin Boy
$=44919 \rightarrow$ out of Wedding Gift
19th $=44919 \Rightarrow$, $\quad$ out of Wedding Gift 19th
$=47402=$ Mr. P. Christie, M. P., Manchester, Ont., got a very thick, low-set call, much like his sire. Imp. Ben Lo mond, who is at present at the head of
our herd. The dam of this calf is Lady Strathallan Hillhurst 8rd, of the reliable Rose of Strathallan family. Two other bulls were also sold, both having Wed
ding Gift dams, of the right breeding king. One sired by Ben Lomond (imp.) the other by Brooklin Boy. At the present time, we have three very nice bull
calves, six, seven and eight months old calves, six, seven and eight months old;
also a choice bunch of heifers, all sired by Imp. Ben Lomond and Joy of Morning (imp.), belonging to the Wedding Gift, Strathallan and Crimson Flower camillies.'
Inquisitive Lady: "How long have you been married now, Mrs. Jardin? It our golden wed Mrs. Jardin. only been married forty years; but my "usband 'as been married twenty years Inquisitive Lady: "" Impossible ! How can that be ?" Mra. Jardin. mes. Jardin: "' You see,


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Illustrated Soed Catalogue WRITE LNOW-IT EXPLAINS. Wm. Ewing \& Co. 4 hembines,

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for raising money quickly and pleasantly? If not, you should lose no time in filling out the accompanying blank, and forwarding same to us for particulars.
For church workers, ladies' aid societies, aind, in fact, any club wishing to raise funds, it is an ideal plan. The old style of "begging" done away with.
Stant to-day by getting full particulars from us.
If you want to raise money for any SPECIAL CAUSE, let us know all about it and we will gladly inform you as to how it can be done. We can solve the problem.


THE FARMER'S ADVOCATE

HULL'S







auditors, said he was reminded of the
Irish teader who was cheering his men on
tion to battle. "Min," he says, "we are on
the verge of battle, an" I want to ask ye. before ye start, Will yez fight, or will
yez run? ", "We will," says they.
"Which will ye do? ". says he. "We will not," says they. "Aha, thank ye,
me min! " says he. "I thought ye
would."

present being: For Canadian Associa-
tion-Robert Hunter, Maxville, Ont.,
tion-Rober
President :
President: J. G. Clark, Ottawa, 18
Vico-President; W. F. Stephen, Hunting
don, Que., Secretary; J. W. Nimmo, or
Vice-President ; W. F. Stephen. Hunting
don, Que... Secretary; J. W. Nimmo,
tawa, Registrar. American Association-
don, Que., Secretary; N. Ninmorican Association
tawa, Registrar. Alner
William George Ralluu, New York City
William George Ralluu, New York City,
President ; J. c. M. Winslow, Brandon
Vermont, Seeretary. The ressult of the
conference was the acceptance, with a few
conference was the acceptance, with a fe
printed in the latest Canadian Ayrshir
printed in the latest Canadian Ayrshire
Breeders'
Herdbook. A letter to the
Breders Herdbook. A letter to the
Ayrshire Cattle Herdbook Society of
Great Britain and Ireland was drafted,
and will be presented by Mr. Robert
and will be presented by Mr. Rober
Hunter, who is going over to Scotland
to secure some new stock for his sons.
Mr. Hunter's position in the Ayrshire
Mr. Hunter's position in the Ayrshir
world is so well established that hat
carries with him the hearty approval
carries with him the hearty approval
American brederes in his mission to th
mother country
are frisky and happy, and will certai
be on hand next fall to ndy
e on hand next fall
o thls noted flock.
international scale of points
For AYR hires,

| A. matter affecting considerably the dairy interests in Canada, England and the United States was discussed by breeders at the Ottawa Winter Fair. It is the adoption of a uniform scale of points by the Ayrshire breeders of the three countries. The question was brought up at a meeting of representatives of the Canadian Ayrshire Breeders Association and of the Ayrshire Breeders |  |
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## The manor Shorthorns. The Manor stock farm is the beautif home of Mr. 'J. T. Gibson, of Denfield

 of Scotch Shorthorn cattle and Lincolin sheep. At the present time there are 40 head of imported and Canadian-bre at the head of which is the richly-breshow bull Proud show bull, Proud Gift (imp.), sired by
the Marr-bred bull, Golden Gift, a son o Spicy Robin; dam Goldie 39th, by Cup
tain of the Guard ; grandam by tain of the Guard; grandam by Lor
Lavender. Proud Gift is not only breal in the purple, but is a show bull of
very high order, judges to be one of the evenest-cuilt bulls
in Canada, besides being an in Canada, besides being an exceptionally
nice handler, and is covered with a wealth nice handler, and is covered with a wealth
of hair that stamps him at once as being
an extra good doer, and one look at his an extra good doer, and one look at hi
get, with their long silky coats and even
thick carcass, will at thick carcass, will at once convince any
one at all conversant with Shorthor, recommendation. The females of the herd
several of which are imported, represen several of which are imported, represen
such fashionable strains as the Miss Rams dens, of which there are seven daughter
and grandaughters of Imp. Duchess, Matador, dam Mabel 3rd, by Duke Fife, and are the get of Imp. Prime Min-
ister and Imp. Governor-General ; Cruickister and Imp. Governor-General; Cruick
shank Clippers, of which there are five
daughters and granddaughters of Imp Clipher 2nd, by Christmas Cup, dam Clip
per, by Free Trade (they are the get o the present stock bull and 1 mp . Governor
General) ; Cruickshank Jays, of whic there are four, progeny of Juno (imp.
by Cornelius, dam White Rose, by Sali
bury (they are the get of the stock and Scottish Actor, imported in datul
Minas, of which there are six, the progel
of Mina Lass, by British Chief, a son Imp. Indian Chief, dam Gipsy Lady,
Imp. Windsor (they are the get of Imp
Vice Counsel, Imp Prime Minister Iof lice and Imp. Proud Gift ; Matidas,
lyhich there are two, one got by The Bar (imp.), the other by Prince Ramsden, in ones is Imp. Rosemary 137, by Cypre dam by Prince of Fashiun 2nd.
another is Lady Fanny (imp.), by But
Buttercup Arts. This cow is of the Undine tinh
and is now suckling a heifer call. Nonpareil Duke. Mr. Gibson reports t
demand for bulls as exceedingly bric demand for bulls as exceedingly hriz
There are only three on hand, and all rare nice trio. and stumld wahe
hoice animals. There ary steral good heifers for sale, amonyt theat sha
stuff. The Lincolns are lowking in fin
 A Notper haipsecrion ovgT wesp


SEED OATS FOR SALE.



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:

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header. Pkt. $5 \mathrm{c} ;$ oz., $25 \mathrm{c} ; \pm 1 \mathrm{l} ., 75 \mathrm{c}$. CORN, EARLY WINDSOR
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| Parsley-Curle |  |





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Sweet Alyssum, Poppy, Petunia, Nasturtium, Sweet Sweet Alyssum, Popy. Peturia, Nasturtium, Swet
Peas, Balsam and Morning Glory. Resular. prloe
Toc, for. 2 LEADING NEGETABLES AND FLOWERS


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and seasons. 1b., 150 ; 10 lbs ., 81.40 . THOUSAND HEADED KRLE-
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How and rdy productive forage plant.

 May bo dut twio in a seabon V Vat
amount rich hay secured from small
arean
 SAND YETCH

Yield
ren soill. In isisise corops. Prospers in bar-

HUNGARIAN GRESS
When cut before seediog produces hay
relished by cattle. 1 lb ., 15c $; 10 \mathrm{lb}$. 81 . BUNFLOWERRussian Giant Egg-producing Food. Ib.,
$150 ; 10$ libs., $81.40:$ pltat, 5 cc .

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 Which book vou want Book Gor Rheor. Matism

Or. Shoop's Restorative
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The gentle gifts of home. The open door, the outstretched hand
of welcome to the dear old homeland. The flowing bowl, the loaf of bread, The pillow for thy weary head. The open hearth, where flaming free
May beckon theo to newi desires. These are the gentle gitts of home
In trust for theo, it thou wilt come.

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For Belleving Dodd's Kidney Pills Cure all Kidney Ailments.
Cured His Backache of Twenty-five Years' standing and Satisfied Every-
one He Recommended Them to. Economy Point, N. S., March 19th. (Special.)-George S. Mci, Maughin, ot this Place, Eives two splendid reasons for his
beliet that Dodd's Kidney Pills are the Belief that Dodd's Kidney Pills are the
One eremedy for Kidney ailments. Here are
the Sine remedy for Kidney ailments. Here are
the two reasons no his own worde
I I was troubled with Lame Back for "I was troubled with Lame Back for
25 years or more, sometimes Bo sovere
that I could not


QUESTIONS AND ANSWER, BOOE ON DRATNAGE

Miscellaneous.

Layme obment walks. directions for mixing and laying cement walks, having seen it in your columns, perhaps three or four years ago, but Ans.-See brief answer to similar query March 8th, and on inside page of hack cover you will find an excellent artiele on he subject. FANOULD NOT BE 100 ween feeding thein one a day nearily all winter, and I never got less egga. 2. Is it good to have turkey hens too A SUBSCRIBIR. are good for hens. There must have been some other cause for your failure 2. Expert turkey ras as

$$
\begin{aligned}
& \text { having laying fowle too fat. } \\
& \text { CHoICE or } \triangle \text { sure. } \\
& \text { I intend breeding }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I, intend breeding a carriage mare (a } \\
& \text { bay) to a Hackney stallion. I can breed }
\end{aligned}
$$ to two different horsas, one a can breid thite star in forehead and one white

oot to fetlock, stands 16 hands 2 inchos high. weighe about fourteen hundred chestnut, weighing about twelve highred pounds, stand 15 hande 3 inches
hour white feet to knees strip in face, rather small bone. Wide
have about same action. Both are well have about same action. Both are well
bred horses. Which had I better breed
to ? Which color is best for carrige purposes? Ans.-Color counts for little in
oarriage horses, either in the show-ring or for sale in the best markets for first-
cless heavy harness horses, cless heavy harness horses, provided size,
conformation and action are satisfactory,
As a rule, the winning Hackney stallions As a rule, the winning Hackkey stallions
in England in recent years have been chestnuts, with more or less white. Other
things being equal, we should prefer the ib-hands horse; but, if the other prefer the oody and better constitution and equal
action, we should not hesitate to ues him. The bay may get as many chest-
nuts as the other, if that color is in his seed for a grass plot and lawn (urrows a front-yand that is uneven wit fall so as to get it levelled down. last are fruit trees through it. It is 136 feet by 50 feet. What would be the best kind of grass or clover seed to seed it
with ? I have a sace in With? I have a space in front of the
veranda higher than the rest, 35 feet by 25 feet, which I would like to sow with lawn grass, for I can keep that wuch
lawn mown. I got a mixture of lawngrass seed last spring, and sowed it, bu
it did not grow. Ans.-The same king SUBSCRIBER. both of these plots. There is no grass Which gives such general satisfaction
throughout the Province of Ontario as
the Kentucky Blue ar Jun sre (Porer prantensis). a native species.
has. it is very
handy, spreads rapidly, and will stand
cutting and cutting and dry weather well. Wo
should advise buying this pure, and, it
possible, obtaining a sample at once, be tested for germination, so that by seeding time you will know whether it is
good or uot. Some white clover seed
may be mixed with the grass the clover will help to keep down weeds
until the grass is well established. FFof ntil the grass is well established. For
the plot 360 by 25 feet, we should ad
ise sowing abot or grass seed and anout elwo pounds of White clover, and for the plot 35 by 25
fet, from one to one and a half pounds from one to one and a half pounds
grass seed and two or three ounces of
$\qquad$

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t
$\mathrm{s} p$
e
 Ans.-" Tile Drainage," price
through thie offce,
35., handbook, by W. I. Chamberlenin. "I
rigation and Drainage," by King, edit T. H. Bailey, deals partly with ineering for price \$1.50; and treatiee on dand Drainage, "' $\$ 1.50$, the use of those charged with the re
ponsibility of making plans for and exuting drainage improvements. BTRAWBRRRT CULTURE.

1. How early in the spring should atrawberrles be set, and in what order P
2. I have a piece of ground oll prem pared, well maniece of ground all preMry land is Mangured and ashed last fall.
will do the best . What varietios
and will do the best in that kind of soil?
3. How should they be cared for 3. How should they be cared for in
order to become prolific and remain so ? order to become prolific and remain so
Quebec.
A SUBSCRIBER.

> Ans.-1. AI early as the ground can be Ans.-1. As early as the ground can be
Cmortiod or any time untit they blossom.
2. Splendid. Beder Wood or Senator 2. Splendid, Bedor Wood or Senator
Dunlap would probably succeed in your district. It would, however, be prudent
for you to enouire of growers in your cinity. Set plante in rows three feet apart 8. Sot plante in rows three feet apart,
and a foot to elghteen inches apart in year. Cultivate until runners are thrown out freely, then keep clean with hoe, allowing runners to take root and form a matted row. Most growers take bu
one crop of fruit," End plant afresh one crop of fruit, knd plant afresh on
new ground every spring. Occasionally they are allowed to fruit for two sea-
sons.

CRIMsON CLOVER-CEMENT WALK. Would it be wise to sow crimso ing down in the fall for manure? $\begin{aligned} & \text { How }\end{aligned}$ much seed per acre? Is crimson clover an annual?
2. I want
floor and walk. How deep must verand would How you mix the cement and sand cover, using stone in the bottom, and
using sare for top ? to mix with Portland cemen
YOUNG FARMER Ans.-1. Crimsoiv clover is an annual
whose natural home is south of this. succeeds best sown alone in June
July July on well-prepared soil. It would be 2. In making cement walks, the eart
in is dug out to the depth of about a foot
This space is then filled up about or eight inches with gravel; next grave
concrete, mixed one of Portland cement to nine or ten of gravel, four inches
This again faced with fine conct in the proportion of one part cement two or three parts fine sand, to a depth of half or three-fourths of an inch. Fac
ing put on while coarse concrete is stil soft. Done in this manner, a barrel of
cement is sufficient for 100 a
holding sows for ringing-filing 1. Which do you consider the best way ing ? Which is the best way to file a
2. Ans.-We have heard of pig E. J. factured for the purpose. A good devi we have used ourselves is an iron tool,
which may be best described as shaped something like the depper end of a shaper
dung-fork handle. This is she dung-fork handle. This is slipped over
her upper jaw, and when the sow tries to draw back, a downward pressure the handle gives a powerful and effective
leverage on her mouth and nose, usually
subduing her completely surrduing her completely. We should have
added that a small ring at the end of the
handle helps the operator to handle helps the operator to keep his hold
Placing the sow in Placing the sow in a crate, with a pa
tially-open front, may greatly facilita
handling her. We have tially-open front, may greatly facilitate
handling her. We have also seen tinis
done, put a noose of firm rope over upper
jaw and slip up above tusks and tichten Jaw and slip up above tusks and tighten.
Then pass the rope through and hel


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same urain as live stock and effects, Leave TORONTO at 9 p.m. every TUESOAY MANITOBA, ALBERTA and SASKATCHEWAN Settil cars attached. No charge for berths.
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Aberdeen - Angus Catllo
At Aberdeen Farm, about ${ }^{\text {A }}$ miles
from Erin station, C. P.R., on APRIL 6th, 1906
20 Head of Pure-bred Aberdeen-Angus Catlle]
Trains met at Erin Station morning of sule.
For catalogues and full particulars addross
MR. W. HULL, Auctioneer.
W. BURT, Proprietor, Coningsby P.0., Ont


THE OTTAWA SHORTHORN SALE. The provinclal auction sale of cattle,
held at Ottawa during the week of the Eastern Ontario Live-stock Show, was regarded as fairly satisfactory, 38 head
being sold at an average of $\$ 76$. the 21 bulls averaging $\$ 74$, and 17 femntes, $\$ 79$. The highest price, $\$ 140$, was made hy Nonpareil of Struan, contributed by N. S. Robertson, Arnprior, and purchased
by Joseph Barnett, Brooklin, Ont. Mr. by Joseph Barnett, Brooklin, Ont.. Mr.
Thos. Irving, of Winchester, offliated as Thos. Irving, of Winchester, offliated
auctioneer.

THE COATICOOK SALE. This is the last call for the dispersion
sate, on March 28th, of the herd of 16 head of Shorthorn cattle and 10 horses, Clydesdale fillies mares and 3 registered son, Coaticook, Que. The herd bull is Fine Goods $=48639=$, three years old, trim. He is a son of King of BueneCista, by Roan Stamp, and on his dam's
side is of the good Scotch Syme family. The females are of the low-set, thickfleshed sort, and of the excellent milking
family. The Clydesdale fillies are daughters of the Wortd's Fair chempion and sire of champions, Macqueen, tonveyances well worth looking after. and catātogues will be furnished on day f sale
Mr. W. F. Stephen, Huntingdon, Que.,
vrites : © My herd ng through the winter in fine conditionSeveral cows and heifers have dropped Calves to Lessnessock Crown Prince trength and vigor of constlitution oxcel any calves I have owned previously. My
heifers from Comrade's Last of Glenora 13474 are couning in now, and are doing emarkably well at the pail. Some of hilk per day. I am sold out of last year's bulls, and am now booking orders or this season's calves. I have a very our years ols, quiet to handle, as he has been used on a tread power. This bull getter."
H. Cargill \& Son, Cargill, report the
illowing re-ent sales of shorthorns Totowing re-ent sales of Shorthorns:
To Josep Monk, Malcom, Ont., Lord
Blossom $=59625=$, out of the BaHlechinbred cow, Imp. Parena Blossom, and
ired by ired by the Duthie bred Missie bull, Lord
Mistletoe (imp.) (81522) krown, Portage la Prairie, Man., the W. Ted bull, Lord Annandale =59624=, out of
Lady Ann 12th (imp.), and sired by Lord Mistletoe (imp.), also the roan heifer, Floretta C, out of the imported
3rawith Bud cow, Floretta, and sired by mp. Choice Koral. This is a choice
air, and ti all goes well with them in the capable hands of Mr. Brown, they
will be heard from in the West. To Moses Bilger, Walkerton, Ont., two man $=59618=$. The heifers are Red cose $\mathrm{C}=67276=$, out of Imp. Red Rose,
Lucky Prince, a son of Prince of rchers, and sired by Lo:d Mistletoe
imp.) (81522); Patience $\mathrm{C}=69271=$ out (i Patience 31st (imp.), and sired by
.ord Mistletoe (imp.) (81522)." .ord Mistletoe (imp.) (81522)
shire stallion being export We hear ed to fNGLAND. Keevil's
Depresentative in Canada has bought fo Mlagdon Majestic 22123. This horse was fold by Mr. Keevil for considerably over $\mathcal{L} 100$ after winning first and champion as
foal at Leighton Buzzard. Since in 'anada he has been successfully Since in 11 is sire is Childwick Majestic 17254 MIS dam that good mare, 23281 Chant o
Satsford, by Menestrel 14180 ; and his randam was 252 Chance, admitted b H... b breed ever exhibited. The late Mr 1 a wrence Drew, of Merryton, who owned "ales (this sire's fee was $£ 40$ )-who was man among men with draft horses9. When Chance was shown in the me class as Starlight, also a Royal an
andon champion: "She is the best Ur saw. Why ! iook at Starlight, sh
Hy looks like a wee bit dropped off he

## IMPORTANT AUCTION SALE OF IMMPORTED

 Clydesdale Mares and FilliesAt the Rioyall Hethell Stables, in the City of Woodstock, FRIDAY, APRIL 6th, 1906. 40 Imported Clydesdale mares amd fillines, ccarefully selected for size, quality and breeding by one of the proprietors. Sale to commen alt Il øclock sharp. For catalogues apply to owners ;. S. J. PROUSE, Insersel, Ont. H. W. INNIS, Woodstock, Ont:

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Alto Heokney stall ion tor alaw
Adam Dawson, Oanningtion, - Ontanio. Fain Christopher, Imp., wive ema Regitered in Đom, and A. Sil. I. B Amoperar, A. M. smaven,



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oUlestions and answirs．
－ Stear has Lump JAW．
just below targe as an egg
Lump
 hard．It is not attached tow the tone．
W．T．B． veterinarian to is lissect the lump＂Get your fully．This can be done，as the bone is not involved．Then give the iodide of
potassium treatment，which consists in potassium treatment，which consists in
giving the ruug three times degil．Comt－
mence the size of the dose by 10 grains daily，
Until he refuese food and Until he refuese food and water，tearr
run from the eyes and saliva from the mouth．When eny of these fymptoms
aponar．

scratohes－weai fonls．
 and they keop stamplog their feet as if if
lega were itchy，and the hair places．They，and the bair comes or in
plate ted boiled oats and
barley and 2．
2．Fach coover hay．
at toal tast season，ome weeks．way would the the other at seven
we the cause of this？ W．S．
Ans．－1．If there are still eruptions Ans．-1 ．If there are 8 ill eruptions，
poultice with boiled turaips and powderred
charcoal for two days and nibt per


 each sulphate of zinc and acotate of lead
and
and
 lege twice dauy with corrosive sublimate
4o grains to a quart of water．
meed $n$
 suiphite of soda twice daily，
2．Feed moderately well，and soe that
they get daily exercise or light work
and it in the Chey get daily exercise or light work
and it is probald the foals will be
strong．The wealenets in to strong．The weakness in the foals is
hard $\begin{aligned} & \text { to acount for．} \\ & \text { duri }\end{aligned}$ Mares that work during pregnancy usually produce stronger
foals than those that run idlo． brdisb－fatality in horbe．
 her mouth．This is the fourth doy and and
her head is sowllen very harge；her
tongue hang out of her ver ingue hangs out of ber n
is aratting in her throu
2．Horse refused feed．
his tongue rend his tongue and mouth were very dark
He was very thirsty．
The next day，his mouth and tongue
 mo Cow got cast，and of the opinion that they
the heand severely，and the ting brused
 all the treatment that can be adoptod
until the selling commences to subside．
lyut，no doubt，she will be either Dut，no doubt，she will be
better before you see this． 2．The horse ate something that irri－
tated the mucous membrane of the in－
testinal tract，which became so testinal tract，which became so sore he
could not eat．
excessive thirst The fever produced caused excessive thirst for a time，and the in
tlammation caused death．It is impos
sible to say what sitble to say．what cuased the itporos
without being thoroughly conversunt with local co

Miscellaneous．

flaxsekd for horses
$\qquad$
 Ans．－Yess；but the sorhed and boilen
nax is betrer．

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Woodstook and Insersoll.
$\left\lvert\, \begin{gathered}\text { Prizo List Eastorn Ontarito Li } \\ \text { Stock and lPoultry Show. }\end{gathered}\right.$ Ler 3 years-1, R. Reid \& Co., Hintonler 3 years-1, R. Refa \& Co., HintonCorg; Fergus. Strear. 1 year and under 2 1. Jns. Rennie \& Son, Blackwater; 2 2. Rciit \& Co.; 3, 4 and 5, S., B. \& A.Co steer, under 1 year-1, Rennie \& Son
 heifer, 3 years and over-1, No
Robertson, Arnprior. Heiler, 2 years and under $3-1$, N. S. Robertson. Heifer,
under 2 years-1, S., B. \& A. Co.; 2 and hEREFORDS AND ANGUS.-Ster or heifer, 2 years and under 3-1, S., B,
A: Co., Fergus. Steer or heifer, 1 year A: Co., rergus. Sleer or heiler, A. A. Co.
and under 2-1 and 2, S., B. \& A.
Steer or heifer, under 1 y year-1, S., B. \& A. Co. Cow or heifer, 3 years and
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Co. . 2 and 4, Jas. Leask. Stuer, under
1 year-1 and 3, Leask. 1 year-1 and 3, Leask; 2, S., B. \& A.
Co. 4, A. H. Foster, Twin Elm. Cow or heifer, 3 years or over-1 and A,
Rennie \& Son; 2 and $5, S$. $B$. $A$.
Co.; 3, Leask. Heifer, 2 years and un-

 Leask; 2, Jas. Rennie \& Son; 3, 4 and

SHEEP
Cotswol.DS.-Wether, under 1 ycar-
1, 2 ard 3, $\mathbf{\text { S. J. Lyons. Norval ; }} 4$, W. E. Wright, Glanworth; 5, A. G. H. Luxton, Milton. Three wethers, under 11 year-1,
S. J. Iyons. Ewe under 1 year-1,
S. 2 and 3, S. J. Lyons,
i L'NCLNS. Wothers
3 and 5 , L. Tarkinson, Eramosa; 2,4 and $\quad$, Shortreed, Black $\&$ Arinstrong
Co. Three wethers, under 1 year-1, LL
ion under 1 year-1,2 and 3, L. 「arגinson ; 4, S., B. \& A. Co.
LEICESTERS. - Wether, 1 year and un-
der
2-1 der $2-1$ and 2, A. W. Smith, Maple
Lodge. Wether, under 1 year-1, 2 and
3. A. W. Smith ; 4, A. G. H. Luxton, Minton. Three wethers, under 1 year-1,
A. W. Smith.
Ewe, under 1 jear-1, 2 A. W. Smith. Ewe, under 1 jear-1, 2
and 3, A. W. Smith.
oxFORDS.-Wether, under 1 year-1, w. E. Wright, Glanworith; 2, J. A, Richard-
son. South March. Ewe, under 1 yearson, South March. Eive, under ${ }^{1}$ year-

1. and 2, W. E. Wright; 3 and 4, J. A. souTHDOWNS.-Wether, 1 year and
sounder $2-1$. Telfer Bros. under 2-1, Telfer Bros., Paris. Wether,
under 1 year-1,2 and 3, John Jackson, Abingdon. Three wethers, under 1 year-
Ewe. under 1 year-1 and 3, Teller Bros. ; 2 and 4, J. Jack-
son. DORSETS.-Wether, under 1 year- 1
and 3, R. H. Harding, Thorndale ; 2, A. G. H. Luxton. Ewe, under 1 year-1 and 3,
Harding : 2, Luxton ; 4 and 5, Richard$\underset{\text { son. }}{\text { HAMPSHIRES AND SUFFOLKS. }}$ Wether, 1 year and under $2-1$ and 2 ,
Jas. Bowman, Guelph. Wether, under i year-1 and 2, Telfer Bros.; 3, 4, and 5,
lhowman. Ewe, under 1 year-1, 2 and 3. Telfer Mros.; 4 and 5 , Bewman.
GRADE OR CROSS. Wether GRADE OR CROSS.-Wether, 1 year
and under $2-1, ~ A . ~ W . ~ S m i t h . ~ T h r e e ~$ wethers, under 1 y. year-1, A. W. Smith ; Wether, under 1 year-1 and 2, A. W
Smith; 3, Parkinson; 4 and 5, SWINE.
BERKSHIRES.- Barrow, Lyons, Norval. Barrow, uncier 6 months-1 and 2, Lyons; 3, R. Reld \&
Co. Sow. 6 months and under $9-1$ and
a. 2. Lyons. Sow, under 6 months-1 and
2, Lyons: 3, Reid \& Co. YORKSHIRES. - Barrow, under 6 months -1 and 3, J. E. Brethour, Bur-
ford : 2 and 4, J. Featherston \& Tord: 2 and 4, J. Featherston \& Son,
Streetsville.
Sow, 6 months and under $9-1$ and 2, Brethour; 3 and 4, Feather-
aton \& Son. Sow. under 8 , ment ${ }_{2}$ and 4, Breth Sow. under 6 months-1, TAMWORTHS.-Barrow, 6 months and
(Contlinued on next page.)

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 Bpoolal Selee of Thomoughhred Stook opifinet

 Hackney Stallion
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Deatord Marqule (imp.). Arot at WCY Fate. 1904 and 1905 , proved att


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SHORTHORNS.-Cow 42 months and over-1, R. Reid \& 22 months-1, A. H. Foster : 2 , E. Baker Winchester.
AYRSHIRES.-Cow 42 months and over-1 and 2, J. G. Clark ; 3, \&. Clark
Heifer under 42 months-1, J. ©. Chrik Heifer under 42 months-1, 3, Chis
HOLSTEINS.-Cow 42 months and over $-1,2$ and 3, Neil Sangster, Ormstown,
Hoifer under 42 months-1 aisl 2 , Ne Sangster: 3 and 4, R. Reid \& JERSEY OR GUERNSEY.- Cow 42 months and over-1 and 2, S. J. Lyons Eleifer under 42 months- 1 , So
GRADES.-Cow 42 months and over1, Neil Sangster: 2, T. A. Spratt ; 3 an 4, R. Reid \& Co.; 5. S. J. Lyons
Heifer under 42 months-1, R. Reid \& Co. Holstein special for cow 42 months and over-1, $H$ alstein apecial for heifer 42 months 1 and 2, Neil Sangster ; 3 and 4, Reid \& Co.

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There is nothing better than to ma. ter anger." This is a wise saying, for pain follows anger, as it does when Buddha.

A registered Clydesdale stallion, risin,
two years, in good growing condition ho years, in good growing condition
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Imer is advertised for sale by Jos. W. Hol-
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shows, and, in fact, is one of the leadi exhibitors of the breed in the Old Lan
to day. He was the breeder of some
the prizewinning stuff at the St. Conts the prizewinning stuff at the
Exposition, and is thus in a position
supply the Canadian and American. with really first-class animals
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Difficulty in Churning. When buther "won't como " thate in serious trouble ${ }^{\text {nd }}$ and ontimes when it
does come, there if more trouble be causo it
 days of superstition, witches were blamed for the trouble. The witch theory th now too ridiculous for serious discussion, and yet bow maly who have difficulty in
churing aro aware of the real cruse. In churning are aware of the real cause. In
this article we proyose to set forth. the this article we propose to set forth. the
real cause, and to point out a suro remedy, end they whb allow prejudice to stand in their way in the matter are lítile better than they of old who refused
to discard the witch theory. to discard the witch theory The cause of the troubte is the im
perfect assimilation of winter food by the perfiect The cause of the imperfect as.
cows. similation is the lack of aroma and flavor in the food. In the spring, Neture overcomes the dilficulty by supplying
this aroma and flavor in the tender this aroma and flavor in the tende Erase. Spring pasture is Nature's eure Herbageum, when fod regularly, overcomes the diffeulty in the mame wayy that Nature overcomes it. It supplies the flavor and aroma that Io. acessary to the perfect assimianou of the winter can be no diffeutry about the coming of the gathering of butter. Wo could sive many testimonials in support of the Tore going, but we preler that any reader who have trouble wib their churning woutd try one package of Herbagoum
teeding it according to dirrections, ane feeding it according to directions, an
note the reaults, not only in overcomin the diffeulty in churning, but also not the increase in the quantity of malk.
LANDSCAPE GARDENING -4 Plang for Pankicicometeries, Publio and Chas. Ernest Woolverton, Landseape Gardenof, GRIMESY, ONT.
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parell Duke and out of imp dams a also the stock

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HOLLYMOUNT STOCK FARM Voung bulls and
heifers from import-
ed sires and dams
for sale at reason-
able prices.
For particulars, W.J. THOMPSON, Mitchell,Ont Spring Grove Stock Farm



 High-olass shorthorns of all T.EROBSON, Ilderton, Oint MA|TLAND BANK SHORTHORNS.
Ymp. Broadhooks Prince 55002 at head of herd. Fhve ioung bull and some of ther out of imp.
by imp. boteh breeding, for sale at
cows. all of chice sole cows. all of choice scotch b.
lowest prices for quiok sale.
DAVID MILNE, ETHEL, ONT. ELM GROVE SHORTHORNS We have for sale some good young oown fand
heifers, of the Fashion and Belle Foroest fle ilies, in calf to Scottish Rex (impl.) or Village
Eeri (imp.), our present herd buil. For priceen d particulars addrese
W. G. SANDERS \& SON,
Shorthorns and Yorkshlres - Hor kshire pigs, either sea, from imp, rire and dem. Also W. J. MITTOM, Thamesville stal a Po. - YEAREMEM Scotch-Topped Shorthorns Young gtoolk of either sex by imp. sire at reason-
able prioes. For particulars write to
Do DONALD MOQU EEN, Landerkin P.O. Sunnyside Stock Farm ${ }^{-8}$ superior young for sale. All from imp. bulls, four from imp.
cows. Good enough to
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D. Milne, Ethel, Ont., reports the forlowing recent sales of Shorthorns: " To
Edmund Tennison, Waubuno, Ont., the young bull, Gloster Prince; to James Thomson, Owen Sound, Canadian Victor, also the cow, Bessie Lee; a rigang; to
show cow-has always been a winner; to James Thompson, Henfryn, the yousg bull, Scottish Hero, of the best breeding, and from a good-miking dam.
have four good young bulls for sale."

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straine that pave made sootel shork straine that pheve made Sbotch Short,
horns famous the world over, and the get of Scotland'e most noted modern
sires-an aggregation of Shorthoms that will stand favorable icomparison with any herd in the world, fepresenting an fin mense amount of money. Yot there they are, a living testimonial of the ant bounded taith Mr. Cargill hed in the done and will still do untold benefit for the live wtock interests of Canade. Thio present stock bulls are: Golden Drop tor, bred by Wm. Duthie, sired by
Nonpareil Victor, by Count Victor, by Count Lavender, represtenting on his dam's side the three noted strails, Nonparehl, Victoria and Lavender, dam Goldon Drop 11th, by Emancipator, by Daum less: Lord Mistletoo, sired by Lovat Champion, by Royal vie toria. Roan Lady and Butternut strains, dam Mistletoe Ard, by Dauntless, by
 Wy Duthie, sired iny Lovat Champlon, by Duthie, sired Tby Lovat Chy Archer, dam isandam Missie 134, by william of Orange. Three bulls whose breeding ior not exolled in any herd in the world aittle to be desired, while as sires, the succoss of their get in Toronto and other In the stables at present are about 27 yearling beifers, the eyual of which three never saw together, the get Baron Beaulort, Stap. and Imp: Chote Koral, and all eut of imported dames, many of them show heffors of a verg high or der, whit the twod. In young bulls, there are in hand about 12, rumnin long about one year of age, out of im mentioned bulls, an exceptionalty niloe lot the making of high-class hend inders, they show that low-down, thick, type mellow-hanalig. and being ao very fashionably bred they certeinly are possessed of all the necessary qualifich tions that go to make the ideal shor horn. Mr. Cargill informed us demand for hign-las was decidedly the beat the past year was The whole herd, under the skillful care and master hand of Mr. John Clancy, the manager, is in fine condition, reflecting great creac his managemenc. is gotten up in tabucatalogue, just fhe first we have ever seen of a Canadian Shorthorn herd, which io a great convenience to intending pur-
chasera, as they can see at a glance the chreeding of both sire and dam for five generatlons back. Parties looking for
first-class Shorthorns should look up the advertisement, and write for the catalogue, or, better, call and tee the herd.

 Yonge Bt trolleg ens trom Unlon Bhetion:



 R. II. REID, Pino Rivor, Ont Riploy Stes C.J. FOR SNLE - - fow youns balls from $a$ for
 FITCIERID BROS. Mlount t L Louls. FITZEERALD BROS., illounts

ELMVALE STATIOM, е.t.

 Il. GoLDuva at Bonls, Tha methon, Ones
 Win. E. Normber

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 Raised s. Mst, jear. Why pay rent and interest when you can buybuhhels
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nd Twill make you a proposition. Address
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 THE STEWART STRAW CUTTER does its work after the grosin has boen sepa
rated trom the straw
git Farmers
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Sired by the Scotch bull, Scottish Lad 45061 FOR SALE.
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Goldiden Famee, at head of herd. Young A. H. Jacobs, Blyth, Ont. Glen Gow Shorthorns is - Our present offerin 14 months of age. sired by Imp. Ben Loman and
Imp. Jo of Morning. and out of imp. and Cand
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6 Shorthorn Bulls 6


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spare a few young cows bred to imp. Old Lan caster.
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 n calf and a few young cows.
heifer calves. cheap.

One pair of matched geldings 5 and JAS. McARTHUR, Goble's, Ont Brown Lee Shorthorns ${ }_{3}^{-}$Present offering is bull from


[^0]cossip. COSSIP.
BRANTFORD, ONT.. THE HOME OF THE TFLEPHONE.
An. doubt as to the home of the teAny doubt as to the home of the
phone was set at rest at the al banquet of the Rrantford Board or Graham Sarch oin, ne then himself, who, in reply to a toast, stated the following interesting facts: In his introductory remarks he said that to srantford he owed his
life. All of his brothers had died in the Old Land, and that, given only six months to live by the physicians, he had
come to this country in 1847 with his parents. He had come here to die, but manhood.
Removed from all associations with the 'phone for many years past, Mr. Bell sath he had almost The speeches of the eveninventor however, had refreshed his memory, and he proposed to give the essembly the
exact facts of the invention, now told prolably, for the first time. In detail he then entered into a consideran of
the invention under two heads: First, the birth of the idea of the phone, and
second, the development of the invention and the first actual test. In 1874 , Mr. Bell, then residing in Bos-
ton. Mass., came to Brantford to visit his father. He had been studying the
science of sounds for the teaching of deaf and dumis, and on this occasion brought with him a human person. One day, in examining the ear for special discoveries of the effect of sound, on it he noticed
that when he spoke certain bones in the ear seemed to vibrate. The air currents caused by speech set the membrane of the
ear in action. and in turn the bones
moved as if in the ransmission of sound. The process proved interesting to Mr.
Bell, and be made further tests. He placed a straw behind the bones, and, laying the ear on a piece of smoked glass.
continued to speak into the member. He continued to speak into the ilember. He
found that the movements of the bones and straw recorded veculiar marks on the smoked glass, varying in size and sha of
according to the tone and volume of voice. Pondering over the experiment,
he conceived the
idea that if sound he conceived the idea that if sound
vibrating on a thin membrane would cause the heavy bones of the ear to move
and apparently record the sound, why and apparen be possible to get a heavy
could it not
membrane to cause iron to vibrate berore a magnet, with the same resultant effect in the
sound.
"Out of this thought," said Prof. Pell
". instantly came the conception of the
telencer in telephone. I conceived that idea in
Brantford," he continued. It came as a flasis. and Brantford is, therefore, the
birthplace of the telephone. Two years Passed, during which Mr. Bell had con
siderable difficulty in aractically carrying
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GERERETGKLK EEBED

 R. MITCHELL \& SONS, Nelson P.O., Ont.: Buringing Junc. Bta
 SHORTHORIS, $\begin{gathered}\text { CLYDESDALES } \\ \text { COTSWOLOS }\end{gathered}$ Present offerings: Choice young bulls and hivly to 1040 - DISmer as som Apply to JOHN E. DISNEV \& \& sond ont. Claremont. C.P.R.R. Pickering, G.T.R.;
Brooklin. G.T.R. $364+$ HILLHURST FARM +1808 SHORTHORN CATLLS
 Broad Hero Orange.
Scotch
Prince Horace, bred by $W$. $=46315=\left\lvert\, \begin{gathered}\text { Butterfy } \\ \text { 49th }\end{gathered}\left\{\begin{array}{c}\text { 8. Marr. } \\ \text { Buttiorfy } \\ \text { Buth }\end{array}\right.$ (sittytoa \right. JAS. A. COCHRANE, o Compton, P.Q. GLENAVON STOCK FARM. Shorthorns and Berkshires

Will be sold cheap if sold before the
1st of April, the following: 8 bulls W. B. ROBERTS, Spanta P. O. Sta.: St. Thomas, C.P.R., M.C.R., G.T R. BONNIE BURN STOCK F Bullit.

 D. H. RUSNNELL, Btouitivile, Ont Shorthorn Cattlo, Laicester Sheep, Ons
-
Herd of thirty. stock bull: Imp. Rosicrucian of Dalmeny $=155900$ at hoed
of herd. Choice oung stools for MAPLE HHLL SCOTCH SHORTHORNS of fost familiies. Herd headed by the grandit.
of red Lavender bull. Wanderer's Star = $=485606$. A fow ohoice young bulls.
Boz 96 . Win. R.ELLIOTT a sows. Quelph. oin
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(Cōntinued "froin page 880 .) a invented that would $9 y 24$ miles in 38 minutes. in the near
tion would be periected, and before long, he added, Aying machines would be as common as telephones are at the present time. These machines would be parnecuJarly val
wariare.

It is not often that an opportunity is
given to our readers to get in touch with given our raders to get in touch wis
one of the largest poultry breeders in England, and on another page will be
found the advt. of James Houlton, Great Malvern, England. Mr. Houlton makes a specialty of the Wyandottes, and al-
wavs has on hand the very finest prize winning specimens of this popular utility importation of new bloots. Look up this. breeding up your flock by importing some high-class birds.

SHORTHORN AND CLYDESDALE DISPERSION.
on another pome in this $i$ sue will be found the anviouncement of the dispersion Sale by uuction, on Apri, th, of the en-
tire herd of imported and homebrei shorthorn catlle belonging to $M$ siss. W J. Shean \& Co., of Rosevale Stock
Farme Owen Sound, (ont., also of imFarm, Owen Sound, (nt., also of im
ported and homs-bred Clydesdales. The young shurthorn are principally the progeny of the noted imported scotn
breet bull. Derly $=32059=$, of the sitty ton Sxcret family, and the females of brives at foot by that excellent sire. Catalogues miay bp had on app lication.

Mr. L. Houey, Powles' Corners, ont. writes: :" Having had a remarkably good seassins sing stock of Yorkshires, except two
hreeding imp-in-tlam sows in farrow, due in June. These $a \cdot e$ of A1 breeding and choice quality. Also have a htter of chocke young pigs that wow our oak Lodge Nobleman by the and from the typical show sow, Emsidele Type. This Pair
show
weign bout 1,300 liss.
orders for these weigh about 1,300 ibs. Orders for these to Jarrow is that typical imported sow: Dalmeny Beauty 4th. now in farrow to mer Hill Victor 6 th, that sold for $\$: 00$.

Mr. Rohert McFwen, Byron, Ont. writis : . Southlowns are growing in popularity as breeders of sheep here make
themselves better accauminted with their themselves to qualities, and, as surely as in older countries, the taste of the people in this country will gradually wecome more discriminatiny in the sort mutton served on their taties, whereas
now many of the chicest mutton carcasses go to supply the demand of the liest American hotels. The day is not arir on when Canadiars will put up the extend the market for Southidowns, and encourage the use of rams of this breed (or forck have been: Fifteen ewes to R.
 lambs to W. A. McCov, Pa. ; 2 ewes to J. D. Dupius, Sompris, 4 . 4 ewes to H .
Shore, Byrna: imported ram and Shore, Byron: imported ram and 6 ewes
to C. Chonte. Tngersoll, and 6 ewes to $\mathrm{W}_{\text {.: }}$ H. Solinith, Rarrie.
Wains, the sort that can be depended on to hring the cows while the bey is away at school, continue in demand beyond ex-
pectations.
This situation I pectations. This situation 1 am en
deavoring to mert hy tresh importations This week, by the Tritonia, I am gettin out the hichecluss dig. Holyrood Clinker sired hy Seaham Clinker, a son or dam ion
pion Wishaw Clinker, and t s. dam in Alice Rightaway, by Champiin Right away. This dog is bound to make a it sud as a sire, nis heughe opood hitch to be sent out. in whelp to Champion wishaw Leader, that a fow weeks hitch over all hreefs at the Agricultural
Hall, Lonilon, with nearly 4,000 entrie?


Maple Shade


JOHA DRYDEN \& SON Broolilin, Ont.
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 Pind Grove Stook Faim. Mith-olases Binton Enorthorns. Cholco Bhrophinire Bheop, Clijdestato the -heoly f) Fera ofithothe on applicetlon. Addrese: C. $\frac{1}{1}$. Wrymom, 80ibt. Rooliland, Ont. Naple Lodse Stock Parm. An eroellent lot of ehorthom litill and
 ainilin ewen.

## A. W. SNuTH. Madlo Lodge. One

 Quonsisa lididits SlootionisChoice yenrling helfors,
stralight sootoh.
Tyo bull oflree et meey pricen.
 KENWOOD STOCK FARM:

SHORTHORNS.
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 malume sinos. Ilytist ont rone. Iivoricil-Sherthorns ent Offerts




 SHORTHORIN AMD LIHCOLIS:
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 A. EDWARD ME YER Eox 375 . auglph, Ont. sootoh ehortrontes


 And Lito mulle verto mide bilivime.





MEHEOMNHIORNN
2 imported bulls of gilt-edged hreeding and of the finest quality,
4 bulls from imported sires and dams; thick, sappy, good feeders,
4 bulls from imported sires and from straight Scotch cows of the
4 imported cows with calves at foot, or nearly due, on which I am
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nomert mitam, Stouffille, Ontarlo.





MARCH 22, 1906

## cossip.

A newspaper man once essayed to write an agricultural item, and said, having in mind the Darwinian theory, that, If the from their cattie, in the course of time

THE FARMER'S ADVOCATE

## Say "Yes"

To This Offer, and See the Good You Will Get.
all cattle would be born without horns. He was embarrassed when we asked him if he had ever feon a call born with horns.
blending blood lines The results obtained by the mating of different strains of blood in pure-bred stock is always an interesting and instructive subject to breeders. The bene-- berland strain of Shorthorns with that of the fashionable Scotch lines is remarkable in service in Lord Lovat's herd at Beaufort. He is the sire of four bulls sold at Perth last week, three of them being the highest priced of the beaurork con from Mr. Fawkes' Millicent tribe, that be came famous at Beaumont Grange and afterwarde at Inglewood, and produced many of the celebrated winners that Thompson's great herd, including tha wonderfull prize cow, Molly Millicent. A Mr. T. B. Earle's sale at Aldbro, near
Darylington, in 1902, Master, Mulicent was Darjington, in 1902 , Master, Muning at the cot of a nice young cow with a well-shaped udder, and was purchased by Mr. George Harrison at 25 gs. His grandam, which came from Mr. Robert Thompson, was
daughter of old Beau Benedict. Mr. Harrison lept on the call untia the following spring, when he was exhibited al the Royal Dublin Show, ligere he was hought privately for Lord Lovat. Janissary Brd, the sine of Master Malicent, was bred by Mr. Wilson, of Pirpiesmint-
and won first and champion at the Hunt ley Show, in 1899; he was by Prince of Fashion, out of Janet 4th, a daughter of Sovereign, a fine bull used by Lord the sire of Master Millicent's dam, was also bred by Mr. Wilson, and by Sovereign, thereby introducing a double
cross of the Surmise or Silence tribe, one of Mr. Cruickshank's best and favortion. The blood of this young sire has evidently nicked well with the Heaufort cattle, and he is proving himself a worthy successor to that great buri,
that has sired so many prizewinning and high-priced bulls at Perth and Birmingham during the last few years.-[Live
stock Journal. stock Journal.

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means solid benefit and progress to farmers. Cement is one of these things. For barn walls, cellar walls, silos, houses, and a great many other things, cement concrete makes an unexcelled building material-satisfactory, durable
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impossible to estimate then IIlity of our farms by the substitution of wooden ones. There are two kinds of



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What Liquozone ls. The virtues of Llquozone are derived The virtues oes tiqua process requiritug
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But to the body, Liquozone is oxhilarat Bng, vitalizing, puritying. It is helptul in The extreme.
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Cody to mete. Plut ready ALix. Hullit © 00. monla, Ont.
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 AYRSHIRE BULLS



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 Imponted and Canadian-loned. Primewinners at all the leading shows. I hold the award of merit given by largest number of prizewinning Ayrshires at said Exposition. R. R. NESS, JR., HOWICK, QUE。, P.O. AND STATION.AYRSHIRES
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With Cheese at 12hc. and Butter at 250
Buy a Holstein Bull




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cossip.

A WOMAN'S BACK IS THE MAINSPRING OF HER PHYSICAL
SYSTEM. The silbteat packLlable to Cause Years of Terrible Suffering.
No woman oan be strong and healthy anless the kidneys are well, and regular in their action. When the kidneys aro ill,
the whole body is ill, for the poisons which the whole body is ill, for the poisons which
the ixidneys ought to have filtered out of the blood are loft in the systom. The fomale nonstitution is neturally mory aubjoct to kidnoy disease than man's; and what is moro, a women's work (
is never done-her whole lifo is one con. (
Uinnous tinuoue strain.
How many women have you heard may:
-c My, how my beok aches that beoknate in one of the first signs of kidnoy troublo? It is, and should bo attonded to immediatoly. Other symptome are frequant thirst, soanty, thick, cloud
or highly oolored urine, burning sensation When urinating, frequent urination, puff. ing under the eyos, awelling of tho foet and Those aymploms if not taken in times and oured at onco, will canue yoars of terrible kidneg suffering. All these eymptoms, and
in faot, there disenses may be oured by the
DONI'S KIBNEY PILLS
Thoy aot direetly on the kidnoyn, and - Mra. Mary Galley, Auburn, N.S., Writor: - lome bock iour monthe wable to to turn in bed without hol p. I wan induood by a friend to try Doap'e Kidney Pilla, Aftor using two. Prioe 50 ounts por box or throe boxes for i1.95 at al dealars, or sent direct on reolpt of prioe. Tho Doan Kidnoy Pill Co.,
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 Bull calves, 4 months and ander only,
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o have filtered out of the systom. titution is naturally
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whole life is one con. have you hoard eny: of the first youknow of is, and should be atsoanty, thicl, cloudy
ae, burning sonsation uent urination, puff. 8 before the eyes, eta
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NEY PILLS
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We have bred
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Shropsilite a Cotswold Sheer SCOTCH SHORTHORNS and
 CLYDESDALES

Choioe ram and ewe lambs. Also
50 shearling ewes for sale. Apply

JOHN BRIGHT, Myntie Station, Ontamio BROAD LEA OXFORDS seven shearing owes, one show ewe four year lambs from imported ram.
Oorreapondeneo prompty enmerod.
Vieitors alvays

 ORSET HORN SHEEP
SOOTCH SHORTHORNS

 other rinck in the worla. Drizowinnerrs shan
on hand. North Toront. Mocillivra


SHEEPSKINS, FURS
 |00 Shropshires 100 one handrod haod tor atele. Toen
 John Miller, - Brougham, ${ }^{\circ}$ On John miller, - Brougham, Ont My offernn 18 y young stock of both sexes and

newoastle herd of Tamworth Swine and Shorthorn Cattle


 abLwILL BROSo, Nowometlo, Onterle Mount Pleasant Herd of Tamworths Mses on hand. A Marge herd of choice pists of aly Oitable breeders and ioaeal bocon hogs Pair
 GLENHODSON:YORKSHIRES AND POULTRY.
Sows bred or ready to breed, from choice imp.
stook, also young pigs. for sale. Buff $\mathbf{O}$ Tpington,
 GLENHODSON COMPANY, Illyrtle Station, Ont. Long-distacee phone at farm. Lorne Foster, Mivr. LIRGE ENGLISH YORKSHIRES
mating, others bred; also young pigs, all from imp. sires and dams.
Prices reasonable.

ALFRED E. SHORE, White Oak, Ont. Fone: IIMPROVED CHESTER WHITES



H. E. GEORGE, Omampton, On LARGE ROcobank Mord of Present offering: OLhoioo stook from 6 weekk to
g monthe old, sired by Concord Profeseor and Willow Lodge crown bith. can bupply pairs anh tios not alin. Satilefichan sugrinteed. Ex 5 $\qquad$

H. M. VANDER Canadian-lored on T. H. \& B. and B. \& G. division of Grand

## BERKSHIRES

HILLCREST HERD OF ENGYISH BERKSHIRES For Sale: A lot of very ehoioe young things of various ages. We prepay ex-
press charges and guarantee satisfaction. Enquiries promptly answered.


AUCTNION BALE OF
55 Imported Large Yorkshires
WEDNESDAY, APRIL 4th, 1906,
at NORTH COT FARM, Also 100 acres of rich loam, with buildings. Morning trains
net at New Hanmburg and Bright stations. (See Gossip.)
GEO. $m$. s.mith, Haysullle, Ont.

## 

## 

CURED HIS WIFE of La GRIPPE

Quebec Man tells how the Great Con sumplive Preventative was an all-round Benefit
 Farm, Que., in an interview: "She got
 and am using it and am getting all right I think Psychine is one of the best tonica on the market to-day" There you have the whole thattet in the forerunners of consumption. This man had one, his wife had the other Psychine not only cured both but it buil hem up so that their bodies are stron.
cooughty fist atsasd. Alt seeds of
comsumption are killed' by

2nd, out of Pride 2nd of Lynemore, dam
of the famous Pride of Powrie 9th, that was champion Angus cow at Royal Show

aok two good ones in Elm Park Beaut
and Elm Park Beauty 2nd, hoth firs
prize winners. We expect soon to have
prize winners. We expect soon to hav
Mr. Lowe out to the fall fairs. Mr
John Stewart, of York Mills, has als
John Stewart, of York Mills, has also
made a start with Elu Park Keepsake
5th, sired by Lord Val 2nd, an Interna-
th, sired by Lord Val 2nd, an Interna-
tional winner. And Mr. Henry, of Lan
tional winner. And Mr. Henry, of Lan-
sing, an old O. A. C. student, has made
a start with Bowman's No.
good bull calf with her. Mr. Geo
Ritchie, of Plainville, has taken one of
our best bulls of this season, Elm Park
herd at Plainville, ont. We are plaged his pure-bred
and encouraged by the many inquiries we
Our stock is in good breeding condition.
our Clydes are also thriving. Our

MISREPRESENTATIONS OF TREE
A press bulletin from the Ohio Experi received setation says : "We have recently following : Tree agents are working in this vicinity selling black locusts at $\$ 25$
trees will grow to post claim that the in 4 to 6
yea's.
yea's. They also claim that the treen
they are selling will not sprout from
o keep live stock away from the your
inquiries as to the advisability of many
int
ing locust trees along the line of fence
o o serve as live posts.
oguing black locust trees at $\$ 6$ to $\$ 10$
per thousand.
ordinarily, grow tocust
trees will not
rrdinarily, grow to post size in less time
than 8 to 12 years from planting. They
will not sprout from the roots so lon
as the trees are uncut or uninjured, and
the roots unbroken, but as soon as the
trees are cut or seriously injured ar the

pect, and any claim that they will neve
stock, and especially sheep, are almos
sure death to young locust trees
sure death to young locust trees if al
lowed to pasture where they
It is not advisable to plant locust trees
along the line of fences adjacent to till-
able land becal
sprouts which grow from the that the
in most cases grow from the root will,
trees will also be more liable to injury from live stock, as it is not practicable
to fence the trees in. In most trees would of necessity be planted in sod The growth under such conditions would and encourage the presence of mice, which are
very destructive to young locust trees Moral.-Nothing is easier for an agent
than making tall claims.
 50c. Per Bottle

LIMEE ENELSII YORRSIIIRE

## ther hrooden in Carne oombh hard the oig <br>  <br> bloo Mion grad chempione fuprect peo

MOIILLINID YOARISHRES


da . Wilion e eove, elingus, owr.
WOODSTOCK HERA OF BERKSHIRES
 ter Dovelis Thomson, woothtoeti. Oit URBE EIGLISH YORRSHIMRES
 reood for 1905: Bivery oustomer ploweed ant daress,

## alemburn Herd o

## YORKSHIRES

Now on hand, a number of nowe 5 and 8 .
Honth old, for iprinis firrow alio large number of Beptember sowe an
boars. Booking orders for spring piga. PAVID BARR. JR., Boz s, Ronfow, Ont
Jakdale Berkshires Of the largest struine
Importa,
Bngiand. The pro protuce
 order for a patror orlo note ithint motbot your




## ELECTRIC BEIT ON TRAL Until You Are Cured

| Binaitora, Ont. <br> Oth, so, 1805. <br> Dr. Molaughin, <br> Daer Str, Haviag <br> finn hotk for buer <br> Bolto lain opris jour <br> frwe mornthe thor <br> poth lot, mil alto- <br> Hith it minoubled <br> wofore but 1 wilten away hrom bome. <br> Iramein, |
| :---: |



## Wherever

 you are, I think I can give you the name of a man in your town that I have cured. Just send me your address and let me try.That's a fair and square pren less he knows what he can do
He, Tmy no novice th the buainees of curing men. Tve been at the business 24 yeara, and in that time have 1IT Anow what kind of cases I can cure, and will not take a case the will
seel sure of success in certain cases I saw then ith found that I could THL YOU ARE CURED.
De, McLaughin,
CI must say thet your Belt has been most sutisfactory. Since wea rind

Dear Bir, -I must may that your Belt has been most satisfactary. Since wea rons Colingwood, Oat., Dea. 16, 1905. rheumatism. I find tho Belt is just the thing to do as you say. I have lent wea thog it I have never been troubled with Wishing you overy suoceas, is Just the thing to do as you say. I have lent it to others, and they apeak well of
Dr. Mot aughiln, remain, yours very truly.

Dear sir,
doctor $\qquad$
JOHN CRAWLE
Talbotvilla Ont. Doa. 15, 1905.
best doctor riever oonsulted conld with druegs, as one Mold me drugs could do me no found It to do mo more good than the ma honorablo men to deel whth, as his advico to me, after he had my money, peoved him to be found Dr. Mchaughlin

TT the man whose vitillty lo sehfo whild still young in your
yebroken-down wrock of whe - broken-down wrock of what Laughlin Electric Bolt is full of
onoouray yoment. It is the suo-
coph of the age in oloyating the from \& For to worn whilo you sloop, For six or eight houre every
night lt pours a steady stroam
of oleotroity int the norve of oleotrieity ante the nerve
conter saturating the weakcontere saturating the weakis tredgth. From It. Thie
ise (ing, the onergy, the fire of perficot physioal. and mental aotion. It ronows the hoalt

There may be some people who would
not pay me when I cured take chances on those, as there are very ake chances on those, as there are very
tow men who, when they feel the e日-
hilaration from my belt will not be hillaration from men belt, Wli ho br-
glad to pay the gmall price it costs slad to pay the emall price 倍 cost cured one man of larme back who had hot been able to bend over to unlace You pay a doctor a little money every month, and a drustist money more for the stuff he sells you to dope bock after you have taken the book for yeara, and are just as bed ofr an when you started-and your stomach
the worse for the polson you have put
Into it
EYectricity is the power that drives Hhectricity is the power that drives
every wheel in your body machinery,
that enables you to talk to walk run, that enabees you to talk, to walk, run,
think, eat and everything else you
an engine. When you have enough you You will some day.
(ill sol have enough you are otrong-not enough-then you Maybe
Anyhow, I am ready to beck up everything I say, and all I ask you to spend is your time. And as you
my belt while you sleep, I don't use much of that.
weir miy belt while you sleep, I don't use much of that body, decay of youthrul vigor and every evidence of it: weoknean of the neys, stomach, HV
seneral ill health.
Now let's get together. If you would like to be a stronger, younger
man than you are, come to me. Call mon you want. If you can't call, send this coupon you all the satisfacmealed free, a book that wlll tell you how I do these things and of mon
who have been cured by my belt. Office Hours, 9 mo
Office Hours, 9 a.m. to 6 p.m.
Sunday, 10 to1. Consultation free.

[^1]Aro you a woak man? Are
you nervous, fretful and gloomy? Is your sleop broken? Have you pains and aches in
difforent parts of your body? Is your back weak and pain-
fulf Have you lost the vigor of youth? Are you Rheumatio and Gouty? Have you Vari-
oocolo? These are all the rococole? These are all the ro-
sult of the waste of vital forco. The gentle stream of Eleotriolty from Dr. McLaugh-
lin's Eleotrio Bolt going into the week nerves for hours
overy night soon replaces all overy night soon replaces all
the loit energy and makes
every norve and muscle porfeot overy nerve and muscle perfoct.
it ourte permanently in every

case | It our |
| :--- |
| cass. |

GOSSIP.
CAUSTIC balsam gives wond FUI RESULTS Berlin, Ont., March 22nd, 1904. The Lawrence-Will...ins Co. Cleviland O I have been using several
numault's Caust womboful results hand send we :h


QUISTIONS AND ANSWTRS. Miscellaneo
division of estate.

1. Mr. L- dies without a will. The property, in real estate, stock, etc., i
worth, say, $\$ 25,000$. When the ave children worth, say, $\$ 25,000$. When the îve childrelly
become of age, legally, what share doee become of age, legally, what share do
the widow get, and what share does eac the widow get, and what share dees each
child get' There are but six heirs, the child get \% There are but six heirs, five
widow and five children. Some say five widow and flve children. Some
get equal shares, and the widow one third of all.
2. Does the widow get more than one third of all personal property, live stock, machinery, money in bank, etc. ? heirs. One, the eldest, worked some years on the place, after the father's death, and has been away now for seven years. The younger boy, now 23, has remained, and worked on the place since boyhood, and is now managing the place, and suc-
ceeding in keeping the place up in shape and laying up a little money in bank for the estate. Does the boy who went away and is in business, get an equal
amount of money with the boy who reamount of money with the boy who re-
mains on the farm, when the place is sold and a division of proceeds is declared?
Ontario.
Onta
Ans.-1. The widow is entitled to take a third of the whole estate remaining,
after payment of debts and funeral and testamentary expenses, and the children the balance in equal shares.
3. She can 2. She can claim one-third of the
tire net estate, real and personal. tire net estate, real and personal.
4. Yes, unless there has been some valid agreement to the contrary

MOLDY SILAGE.
What is the cause of silage molding in the silo? We are feeding every day, The corn was very ripe when put in the silo, and was well tramped. There are a lot of cobs in it. Is the corn too dry D. W. R. whether there is any recent scientific in formation on the cause of ensilage molding in the silo, as far as I am aware nothing has recently been done on this question, as the causes for molding of ensilage are well known, as one has only to apply a few principles as to the life of these microscopic plants. Molds require suitable food, moisture and air. Any form of ensilage will suffice for an adequate food supply, and the acidity of the ensilage rather aids than hinders the growth of molds, but unless the other two conditions are present they are pre-
vented from growing. That is to say, lack of moisture and lack of air will preis well tipened in the field and allowed to
will ther there wilt, thereby losing moisture, and thus
reducing the water content of the plant reducing the water content of the plant
tissues, their growth is restrained, simi-
larly also with regard to the air present. If the ensilage is well
and
tramped and packed tramped and packed, and means taken to
prevent the access of air, one of the prevent the access of air, one of the es-
sential conditions for their development
is absent, is absent, and the molds will be unable
to grow. Thus in cases of moldy en-
silage occurring in silage occurring in silos, all of the es-
sential requirements for growth will be
present to a greater or loss axtent more moisture there is present in the
silage, combined with free access of air will permit the mold spores to grow,
and produce the characteristic spottiog
Thd These mold spores are partly spotting.
thy destroyed
by the heating and sweating process in the silo, but fresh spores gain entrance
from the outside air, and from the chatf
or other material which is or other material which is used for
covering the silage. Any measures taken
to prevent free access of air and hichmoisturent content waill tend to and high-
spoilage from this cause. INote.-The F. C. HARRISON. cause of silage molding is the lack of
moisture, makink more diffor ing to exclude more aifficult the pack-
ing watering the
silage at it goes into the silo has been
practiced with satisfactory results.


[^0]:    

[^1]:    Dr. M. S. McLaughlin,
    130 Yonge st., Toronto.
    Please send me your book frea.
    NAME.
    ADDRESS.

