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# The Farmer's Jodv 

Vol XLI. LONDON, ONT., AND WINNIPEG, MAN., MARCH $15,1906$.
No. 703

## EDITORIAL

## Wanted: Good Roads

Readers of "The Farmer's Advocate " through out many sections of the Province of Ontario will agree with us that during this season the roads
have been notoriously bad. In dry summer and have been notoriously weather, or in winter when frost and autumn weather, or
snow cover a multitude of municipal sins, both of omission and commission, the highways are passeble, but when subjected to the test of con tinued soft, wet weather, then the things that ar rotten in road construction and maintenance be come glaringly apparent, and rural traffic suffers a partial paralysis, to the great loss and discomfort of the farmer. Bad roads are a heavy drain very greatest hindrances to its progress. People may become hardened to them, as they do to other evils, but that makes them none the less
objectionable. We very much question if there is a point at which municipal management has more signally broken down than in the construction and maintenance of the highways. If anybody disputes this, or desires evidence that will settle or unsettle his "hash," let him start out after the next thaw, at a venture, on some of the township or county roads in one of the old and wealthy counties-Peel or Middlesex, for example -and we venture to affirm that he will be con vinced
Badly laid out, imperfectly drained, and illconstructed in the first place, the roads evidently systematic oversight or policy of maintenance. Many of the roadbeds are too wide, and instead. of having a crown to shed the water, they are flat,
if not actually hollow, in the center. In many municipalities it is simply a policy of drift. Noth ing is done until the road becomes a veritable bog, and then repairs are doled out with a nig gardly hand. Gravel, if used, is very frequently
of a most inferior character, containing a liberal of a most inferior character, containing a libera anly to be washed mack, and is dumped on streams at an early date, finding itself back into the original riverbed, ready once more for the contractors who thrive upon the corporation. Cases are cited where the deservedly-condemned statutelabor system was voted out and the taxes commuted, but the last evil is even worse than the first, for, more than ever, it is now a go-as-
you-please system of road oversight and work. Once in six or eight years the road grader makes its appearance, and in a spirit of self-preservation care of the highways themselves during the interval. Gravel is piled on loosely for wagons would not so strenuously object were it not for trave gone through the stone crusher before being laid on the roadbed. The taxes are high enough
in all conscience, but the people will not kick in all conscience, but the people will not kick
at the taxes. if they get good value in the shape factory. Provincial Treasurers boast of revenues and surpluses, and a progressive railroad policy and surpluses, and a progressive railroad policy
for New Ontario. Our readers would like to hear a little more of the good-roads propaganda in to make a If the Ontario Government wishes the good-roads policy and strengthen the hands of the Provincial Highway Commissioner. In no the interests of the farmer. We commend to the policy.

## Far-off Fields Look Green!

 The letter by Mr. John Campbell, on the de than passing notice, for his observations are in greater or less measure applicable to a large part of Eastern Canada, though they apply with parfar as natural conditions ontario counties, which, so farming district. We need not dwell upon the conditions so graphically described; suffice to say our observation coincides closely with that lecturer and live-stock judge, has become quainted with them by close observation What are the reasons for the exodus that has taken place? Inquiry reveals that thousands of the people have gone West. Farm after farm of the inest of land has been sold to rich neighbors, tricts seeded down to cattle pasture. Choice distion, and the ranching business, it would seem was being transferred from Alberta to Ontario, Some months ago, returning from a trip through North Middlesex and Lambton, we were reflecting on the fact that, just as Ontario had long been incredulous regarding the possibilities of the West, and had left it largely to Americans to reveal that country to us, so had we now gone to the ther extreme, and in the height of the Western ever, which seems to have affected public men,press, getting sorndid ortunities getting splendid opportunities right here in our fertile fields, presenting scarcely any obstacles to cultivation, and offering a bounteous harvest of good things to the man who could work them aright, the conviction seized us that a reaction must come soon, the people would awake to the blessings of this home land, and a repatriation, ere many years, would bring back the wheat-land seekers in thousands, along with a proportion of city men. These will impart to agriculture in country the feeling of prosperity the basis hope, and the impulse of progress. We have no objection to the partial peopling of the West by Eastern Canadians. Some are needed there as a leaven on the masses of foreigners who are swarming into that country, but it seems as though the wholesale migration is going too far for the good of Ontario, and for the good of many of the migrants.We do not appreciate the East, nor the oppor tunities that abound to make it a delightful land have appreciated it, as is proven by the vandal ism with which they have sacrificed the woodland, one of its chief natural charms. The people who resettle it will possess a partially-despoiled country, which they will improve. Where once the forest was ruthlessly hewn away trees will be planted; rows of them will mark the highways, groves, of them protect the buildings, and belts of them, unpastured and thrifty, will adorn the landscape and ameliorate the climate, at the same time yielding in timber as large a revenue as the cultivated fields. Rough, broken lands will be renent pasture. Underdraining will be done, stacles to cultivation removed, that work may be accomplished with ease and expedition, as in the West. Corn and clover will enrich the land with a fragrant prosperity, horticulture will flourish, likewise dairying and other phases of intensive agriculture, our farms will be doubled or trebled in production, and our homes made
more beautiful. No country in the world lends more beautiful. No country in the world lends
itself more generously to the mixed-husbandman's effort, and the present cattle ranges will be retransformed into a blossoming country of homes.

Ontario has every natural requisite of a great farming country. It is a beautiful land to live in, and can be infinitely improved. It has a rich, retentive soll, that can be made richer by a sys-
tem of mixed husbandry. Including rotation with tem of mixed husbandry, Including rotation with
legumes; it is well watered, having not only abundant rainfall, but plenty of pure well-water available for man and beast. These things will make it a great farming country 10 ig after the West has squandered its heritage of soil fertility, which, in that climate and under prevalling Western conditions, it will be no easy task to restore.

## Encouragement Rather then Compul-

 siom.It appears some misunderstending has arisen regarding the motive which prompted the Ontario Fairs and Exchibitions Association in converition at Toronto last month, to resolve in fever of striking out the clause in the Provincial Agrieul-
ture and Arts Act forbidding horseracing at fall ture and Arts Act forbidding horseracing at fall fairs. The reason for this action is the fact that Government refusing to prosecute or even with hold the grant, private individuals being also loath to take action. Then, too, ${ }^{45}$ speed contests" have been legally recognized hy the Act, and, in the event of action against a society, the decision would hinge upon the court's opinion as to whether a certain event were a horse-rice or a speed contest. The fact is, anyway, that the law supposed to forbid horse-racing et fairs has
not prevented it, about hall the societies in the not prevented it, about half the societies in the
Province, we believe, carrying it on without molestation. It is held by some that the law never was intended to prohibit racing, that the distinction between horse-racing and "speed contests" was a means placed in the society's hands to control their racing and eliminate the professional element. If this is the intent of the law, the fact should be clearly set forth. It is probable that a second circumstance which induced the Association to pass the resolution it did was a not-too-wel-considered.circular sent out by the ing out that racing was illegal, and that directorby whose sanction it was carried on were liable to fines and imprisonment. Construing this as a veiled warning, many societies who had arranged for races cancelled them. Their indignation on finding the Government had not the slightest intention of prosecution, was manifest at the meeting, and the aforementioned resolution was a very natural outcome thereof.
Many societies claim that they cannot aflord to dispense with racing, though the oxperience of gate is evidence that not only can lains Highsuccessfully without the race-track, but that the agricultural features gain much in attention of visitors by absence of distracting events. The subject cannot be fairly discussed, howeyer, without an admission that there are two sides to it, and that the first means of regulating the racing evil may not be the best advised or the most effectual in the end. There are a great many people who are keenly fond of a horserace, and harmless amusement their opinion that it is a question, "Where are we going to comes the unless at the local fair? It is all right for the Toronto man who can take in the Woodbine to talk about the fall fair not being the place for a horse-race, but the farmer's perspective gives it a different view." We respect these people's opinions, and will go so far as to edmit that a good clean horse-race is one of the least objectionThere attractions that can be put on at ca feir. There are, though, many evils liable to tollow the race-track-evile more vividly seen on the

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> American side than in Canada. Even with us at some of our local exhibitions, the agricultural ing a fair. That these should receive Government assistance for promoting the cause of agriculture s absurd. Does not this suggest that the best step to encourage the purely agricultural fair would be to offer it a good grant, withholding aid from those fairs which allow horse-racing side-shows and things of that kind? Apportionment of the grant among the former only would increase the amount per fair, and, in time, their
success would induce most of the others to success would induce most of the others to follow
suit. There is no doubt that the public taste an be cultivated in one direction or the other goers would less insistently demand it. "The armer's Advocate is anxious to see only purely the most good and set the people's minds in the right direction, but we do not believe in making
laws to be winked at, as the habitual violation of any one law begets a laxness of the public morale, son we desire to see nothing in the amended Agriculture and Arts Act which is at all ambiguous, and nothing that will not be reasonably sur-
of enforcement. On the whole, we incline to favor financial encouragement, rather than compulsion, instrument for encouraging the purely agricultural

> It may be mentioned here that any amendment will not affect the law forbidding betting, bookmaking or gambling, which will remain strictly the arm of the law directed with all its force

Subscriber Literary Society is booming. Every subscriber is eligible to take part in the debates. ready, so they too can enter into these very interesting and helpful discussions.

## Select Prices for Select Hogs.

 Has anybody heard yet of any discrimination seems to be about time far some indication It action on the part of the packers to see that the old order of things is altered. They should at tend to this in pursuit of a policy of intelligentsell-interest ; but if they seli-interest : but if they do not, farmers may
force the packers' hands by dropping out of the hog business. We would by dropping out of the for we are persuaded there is money in hogs, and we would deplore the necessity of any policy that savored of cutting off our noses to spite our faces But something must be done. It is a manifest injustice to pay the same price for barrel-pork hogs as for Wiltshires. Farmers have it in their powe to compel a change. We may not do it by or ganized efiort, but it will be done almost as effec tually by producers losing conficence in the busicomes, and the hand of the farmer is strengthening and net soon. It is time the producer of wealth we coming to his own.

## HORSES.

## The Farmer's Horse

The question of what style or breed, or mix sell and use, has been for some time past, and will be, I am afraid, for many years, one of the most difficult problems confronting the farmers o
Canada. It is only a decade or two since the farm work in the western end of the Annapolis Valley (N. S.) was principally done with oxen and as the farms, for the most part, are small the shape of a horse that would pull the family to town in a reasonable length of time was considered all that was necessary. As a result,
speaking generally, the horses in this section ar speaking generally, the horses in this section are
about as nondescript a lot as can be found oin
Canada and for that reason Canada, and for that reason, among many others, I am glad that you have raised this discussion. The present letter will be mainly my own opinion,
however, modified by discussion with some of our however, modifed in discussion with some of our
best farmers in this county. Let us take up your questions in order

1. Admitting that the market demands, to a
certain extent, horses that are unfitted for farme certain extent, horses that are unfitted for farm.
work, such as saddle horses, roadsters, trotters etc., I would consider that these were better left o what we may call professional breeders, or men ments to warrant the necessity of keeping maras mainly for breeding purposes. The average farmer must, of necessity, work his brood mares for would attempt, from choice, to do his farm work
with riage horses, saddlers or hunters, and in this are here is little profit in any product of other than the market will allow of a call for such horses as larmers can produce from mares of a type that wrofitably, he would better be in some other work han horse-breeding. I mares is a tough proposition. No one type of , reed a Clyde to one of our be rank folly to boned draft-grade or a sare. Standard-bred to a bigis the general run of mares to be blocky, low1,100 to 1,300 lts. 1 consider the lighter-weight a 3 There are a lot of horses wanted of from hardy fellows for all qorts of purposes, as lough, drivers, ete. For these light horses, permily
rades of the Standard bed Mydesdale. $I$ would select this can learn of the rades of it, to bring the surist and, or well-bred As the horse for the farmer to produce,
have for his own use and for the market, if he rocate the (lydesdale as the best obtainable breed at prosent. The gemeral run of farmers are
calling for a horse of from 1,200 to 1,400 lbs.
not too high up in the air, and with an fred in ligit wagon of 7 or 8 miles per hour
 Pemomall, lecause he is shorter-legged and
men
the heavy horse and the stylish driver will in
crease, while the nondescript scrub will fade crease, while the nondescript scrub will fade.
7 and 8. I would say emphatically NO not introduce new breeds, but, on the contrary weed out some more of the useless types, and considering all things, let us s
with its grades for the farmer. $\qquad$ MESSENGER

## What Class of Horses Should Our Far mers be Encouraged to Breed?

## Editor " The Farmer's Advocate

n this subject certainly your recent articl consideration of every farmer who has at heart not only the welfare of his own boys, but, as well, the best interests of the horse-breeding in dustry of this country
At the outset, I make bold to say that, desire to direct the interest of our boys towa able conditions surrounding our farm homes
able farer
rather than to the enticements of the race rather than to the enticements of the race-track,
we cannot impress the fact too strongly the we cannot impress the fact too strongly that the breeding of light horses, as a business, is one
which too often forebodes disaster to the farmer's boy. I have no doubt that almost every community in our Province can furnish examples which show that the light-horse business, which might call handsome prices are realized, too often attracts our boys off the farm onto the public highway, with the result that the farm loses its attractive features, and some other line of life is
sought for a livelihood. This result, along with the fact that our light breeds of horses are not suitable for the performance of farm work, should cause us to realize that, as a business, this is It is a noticeable fact that altogether too large a percentage of our farmers have, in the keeping of horses, but the one end in view-that of per hand, in order to make the best On the other business, our aim should be, not only that our work horses should do the work of the farm, but as well yield us an annual profit. If we look be no disputing the fact that the breeding of heavy horses is a surer means of profit than is light-horse breeding. They come into the market at an early age ; the market for this class apt to become valueless through injury or un soundness, for a good heavy horse, although he may not be altogether sound, will always command a marketable price. When we consider the the great percentage of brood mares in our Provthe Clydesdale and Shire in or more crosses of question of first importance is, to what breed the sires should these be mated, in order to secure the most satisfactory results.
which the first place, I can sce no good results breeds of heavy horses into our country further of no feature which either the Percheron or Bel-
gian breeds possess which gian breeds possess which would cause us to
abandon the Clydesdale or place with cither of these ; and, further, it would certainly be trampling under foot every wound principle of breeding to encourage the crossing of ent mares of our country. The same the presresults which follow the crossing of Shorthorns and Hereford or Polled Angus, and continue to breed from the cross-bred females, would follow the introduction of such a course. The fact, if farmers are desirous of encouraging either the
Percheron or 13elgian brecds, they must get the females also, but never destroy the present breedreins the blood of either of by mixing in their To sum up, then, the principal aim of farmers
should be to breed a type of horse which will not only be serviceable on the farm, but will also ket. Considering the standard and breeding
our mares, there is certainly no our mares, there is certainly no other class
sires will give the same satisfactory results as the Clydesdales and Shires, as our mares are, to
a considerable degree, of this breeding. We know
it is a settled principle in stockilreedine that like begets like," and the stock-breeding that one continuous strain, with the infusion of fresh
blood of the same kind, the more hat transmission be; whereas, on the other hand y indiscriminate mixing of all the other hand,
aw of reversion or atavism wil law of reversion or atavism will assert itself to iall back to the species of the original scrub
This result has so This result has so plainly manifested itself in
many sections of the Province ame many sections of the Province among our milk
cows, where dairymen, without any respect to work and miprinciples of breeding, have gone to
weef breads all the dairy
bed beef breeds, with the single idea of obtaining the


THE FARMER'S ADVOCATE.

## Early Shearing of Sheep.

 The leading sheep breeders in this country nowmake it a rule to shear their yearling she March or early in April, and the breeding ewes
met before going out to grass. There is practically
no risk of ill effects no risk of ill effects in the case of sheep in good conation, from shearing during a mild spell of
weather in March, if kept in a closed pen free from cold drafts for a feet in a closed pen free
days after shearing. The writer saw a flock of young sheep in January
this year that were shorn in that were thrifty and comfortable looking month, and vantages of early shearing are that the sheep
thrive better in the warm days of spring dives thrive better in the warm days of spring divest
of their winter of their winter coats, they are less liable to get
cast upon their backs, and are better fitted show purposes, and more salable better fitted for
and fall. owing to summer and fall, owing to their having more wool and
looking lo looking larger at those seasons when buyers are generally looking for sheep. Any loss sustained from
selling the wool unwashed is more than made the more rapid growth ed of here than made up in
during the spring crop of wool during the spring months, when the she of ar wo in
proving in condition on the fresh pastures. There
are generally fever
 rubbing against fences. as sheep will in wool from spring days, especially if troubled with warm
The work may be done before wo ls. is practicable, and when time is not of so much account. Ii delayed till after seeding is co
mended, it is liable to be left till that season over, and the sheep may suffer from the heat wit loss of wool in the shape of tags, in the case o sheep feeding on the early grass, and there
often the loss of a sheep or two from trent ing, to say nothing of the risk to the health of
the men who do the work in cold wite farmers have to drive their sheep a considerable the sheer, being heated by driving, are morel liable o illness from being plunged into cold water. Shearing may be done piecemeal, a few each day between feeding hours, by having a plat farm
about the size of a barn door made of about the size of a barn door made of a few
boards held together by cross cleats, and which
may he stood may be stood up and tacked against the wall of
the pen when not in the the pen when not in use. It is a good plan to
trim the hoofs of each sheep with minim the hoofs of each sheep with a knife while
in hand for shearing, as the hoofs are often
overgrown overgrown in sparing from st he hoofs are often
ding, and they standing on tore trimer bedding, and they are liable to contract foot rot
or other hoof ailments. When all the young sheep
are hor
 ion of one of the advertised sheep dips, to destroy
any ticks that may be upon them and to loaves should also be healthy condition. The lambs
are shown bed a few days after the ewes are thorn, and the ewes will also be the elves poured on or for having some of the solution in thin condition, we would not Id vise ewes are
them until the weather becomes shearing hear the end of April or early in quite warm, say than those in good flesh. more liable to catch cold

## Contagious Abortion.


it is impossible to remove all the afterbirth off the
it buttons." and they are injured by the fingering. (ives
these doses of carbolic acid to dy the These doses of carbolic acid to kill the germs, and na-
tue will do the rest. It looks queer how this carboric acid gets its work in on that part of the animal's
system, I I admit, hut $I$ 俍 system, I admit, but I know that it does, and know-
edge is worth more the thor ness at best, getting abortion out of a herd, and one
nus must have faith in this treatment and not be easily discouraged. Give, then, every animal affected. 75 drops
pure carbolic acid, divided into then toss pure carbolic acid, divided into three doses, and dilute
each dose in one pint of water.
Give $e$ cry man in the herd 50 drops daily, in two doses, diluted
in water and in water and mixed with feed, for two or three days;
then repeat in three days, and continue to repeat for a couple of days. if thee days, and cont issue to repeal any germ of that com-
plaint
 care will be used in handing t. (i ven in doves te-
tween 20 and 30 drops, and diluted in water it is per
 Out, and find it a good preventive to give the pregnant
cows a few doses every two months or so alter they
 we ser signs of pending abortion, is welling of under up the internal trantment in the feeds nee cr mind the



## A Study of Breeds of Swine

The Improved Large Yorkshires, as they are known in America, or the I.arge White breed, as
designated in England, are one of the three citral white breeds of that country-the Large
Whit White, the Midtcte White, and the Small Yorkshire
or Small White Small White. The general opinion is that
these breeds have come originally from the Old Foolish hog, a large white class of animals, habiting Yorkshire and other counties of England
from a remote periods. The Small Yorkshire ones
its refinement in a measure to Chinese crosses, and
the Middle Yorkshire is the outcome of a cross the ween the Large and the outcome of a cross
binal Yorkshire
reds the Old Ye l in body and legs, was war row, had wears
 more than a century ago The white T.eciushter,
introduced carly in the last
che try
 has also had an influence in the employment
yorkshires of a good size and
pyle






 lificary They do nut mature as marly as sow


A Typical Yorkshire Sow.



 and the grade stock of the country, increasing
size, imparting vigor, and improving the quai size, imparting vigor, and improving the qua
of the meat, more especially the bacon, and creasing prolificacy, as the sows produce large tiers, and are excellent nurses. For these rear and because of the demand for the bacon
and owing to their being so persistently ext hoy so many agencies as meeting that demand recent years, and are now more largely raise sum
of excellence for the breed points in the standard white, free from black hairs, and, as far as poss idle, from blue spots on skin; head moderately
long; face slightly dished, wide between ears large, moderately thin, slightly inclined for
ward, and fringed with tine hair i owl of Width and muscular, but neat, with no accumula-
tin of flabby fat : neck medium length, hut nusbreast wide and full: back medium width, ing slightly above the straight line, forming a wide slight arch from neck to root of tail; loin
wide rest of hack, strong and full. but an Wide as rest of hack, strong and full, but not un-
duly arched, ribs good length and moderatearched: side fairly deep, long, smooth and el
straight between shoulder and ham straight between shoulder and ham, a straight-
edge laid over shoulder-point and edge laid over shoulder-point and ham, should
touch the side throughout ; heart girth full, hut not flabby at fore flanks. filled out even with side of shoulder, no tucked-up appearance back of fore
legs, nor droop back of shoulder-top
low n and Tow and thick ; rump same width as back full.
and slightly tail, and somewhat rounded point about a side over top ; ham full, without flabbiness; thigh
tapering
towards
hock, without fold "rankles, and carrying flesh well down tor
wards hock: hind legs medium. hocks set well apart, but not medium. length
bone clean and strong: mene clean and strong: pasterns upright; feet smooth, all parts strongly formed; form long as to give an impression of a well-balanced strongly-built animal ; top line strong; under
line straight;
belly trim and easy and graceful.

## THE FARM.

The Function of Plant Nutrients.
 preys upon plant life, in that it takes that which the
pant has constructed for its own production and uses
it to build it to build up body tissues. The production and uses
is to show some of the difficulties the of this article in maturing its of the difficulties and the plant may have
mont The seed contains an embryo or germ, which is and extremely rich in ulburwinoids, fat, phosphates. Want food, intended to nourish the young plant until in fool. In and are developed and it can gather its larch, while in linseed, turnip seed, etc., there is large quantity of fat. When the seed, is supplied with wally l.weome soluble and nourish the young plant de-

$\qquad$
$\qquad$
 add of nitrogen, but have difficulty in obtaining creals make the greater part of their growth at a tim
when the soil may be deficient in nitrates, and befor atrification commences in the spring; and, further, ton stituent, but, strange as it may seem, they gather pot
sh with comparative ease. Turnips are shallow-roote and do not collect phosphates readily, while mangels ar lifficulty in pathring nitrogen. It will thus be ser iso differ in the amount of residue they leave in th round It is these difforences in the characteristics of
rops that makes it pussible to so arrange them in he sueceeding one, prevernt loss of plant forod, and hel, o insure a continuous supply of the constituents mos
refers Not to Sow Clover Too Early

Hor a great many years my idea in sowing Soon as I thought hard winter weat her was Alril, when the frost was getting out of the



Making Hogs of Themselves

$\qquad$ seed firms. From whatever source it emanated, it is We all packages, bins or receptacles branded or taggel Thinds of seed, and the common names of those weed seds mentioned in sec. 3 of the Act only, where they are iound in greater quantities than the margin of
tolerance allows for seeds of first quality. This margin of tolerence will be explained in discussing sec. 5 of the
$\qquad$ Sonds mentioned in sec. 3 are ever found in samples of krass or clover seeds. Those which do occur most frequently in the seeds of the grasses and clovers are
mentionvel in sec. 4 of the Act. Th y are nine in alumber, and nothing is said about requiring a brand or
taik for them when they are present in sufficient quanThe Act wasn't framed to impose any great hardship on the sed merchant or seed retailer, but it was cal-
culated to protect the purchaser against fraud or misculated to protect the purchaser against fraud or mis-
representation. It was not intended even to compel a man to buy a
less he wanted to buy screenings, the sale of which
sic. 6 of the Act prohilits for seeding purposes in If srens of any kind offered for sale will grade No. quire to brand, tago or seal such seed. The seedsman shall know of its quality. is clear, and the mothod for which is describet in clauses a, b, c, under ser. 3 of the Act, let us turn to another
idlea, which, though crroneous, many persons entertain. It is that clause 2 , under sec. 3 , which deals with the privileges of the furmer in selling his home-grown seet
timothy, alsike and red clover, and it should b Understood that the germination test is constiered
as well as the purity test. There must also be no
te less than 99 seeds in every 100 of the sample of the kind represented, or seeds of other useful or harmless grasses and clovers to grade No. That is to say, if more than one per cent. is made up of dirt, chan
broken seeds and weed seeds of any kind, it will no grade No. 1, and must be so represented.
Sec. 4 says that $90 \%$ of the sample must be germ inable. There is alowed, howesed will grade No. $\%$ more, so that $85 \%$ germinable seed will grade No. 1
Sec. 5 of the Act provides for the margin of tolerce, and this margin may be changed from year to and this margin may be changed from year to lute purity, and this is recognized to be impossible under
the present condition of the seed trade. The presence the present condition of the seed trade. The presence
of one wild mustard seed in a bushel of grain would condemn it as a No. 1 sample. It is known by a good
many this year that the margin of tolerance is that one noxious weed seer may be present in each 1,500 grains of the sample of grass and clover see
noxious weed seed per pound in the cereals.
This margin of tolerance was calculated for the pro
Thiter (ection of the seed merchant, and not for the purpose of seeing how close he allo grade No. 1 . It is also in tended as a guide for the Dominion Seed Analyst. Sec. 6 of the Act gives the minimum standard of exists in woed seeds is to be prohibited from heing sold for seeding purposes in Canada. This would allow the presence of the noxious weed seeds mentioned in secs. 3 and 4 of the Act, of no less than, approximate-
y 411 in 1 oz of timothy, 212 in 1 oz . of alsike, and y. 411 in 1 oz. of timothy, 212 in 1 oz . of alsike, and
02 in 1 oz. of red clover. Sections 11, 12 and 13 of the Act should be carenoted, which deal with the requirements in taking sumples to be sent to the Dominion Seed Analyst for purchaser wants to know about its quality, he must take his sample in the presence of the one who sells him the seed, or before two impartial witnesses. In
taking it from a sealed package, he must take the sam-别 st the taken inside of seven days from the purchase the seed. A certified statement is to accompany the the seller, the way the package was marked from ich the seed was taken, and the section or sections
the Act which were alleged to be violated. o Act which were alleged to be violated.
omething over 1,100 samples have been examined this year in the seod laboratory, and they are now coming in very rapidly, as the trade in seeds be
comes more active at this season of the year. Most o these samples, which have been sent us by seedsmen and seed retailers so far have analyzed very well; a great many will grade No. 1, the hulk can be sold for seeding the prohibited list. There are a number of samples in which none of the noxious weed seeds were reported. Then there are others in which even as high as 49 nox ious weed seeds were found in the five grams of red The presence of three noxious weed seeds in the five grams would prevent the sample grading No. 1, and more than 16 to the same amount prohibits its sale. A great many of the seed retailers are safoguarding seed merchants tested. This is causing the seed th chants to be very careful what they send out, and it certainly insuring a
Some who get their renorts in
eir reports in purity have trouble in knowing how to classify their seeds. The sheet on soed testing, which accompanies the report, conveys sumas it inermat problem quite easily of red clover, alsike and timothy to be a gram each of red clover, alsike and timothy to be, respectively,
$650,1,500$ and 2,900 . Five grams of red clover ar taken, and two grams each of alsike and timothy, for examination for purity. There are three things which moy prevent the grass and clover seeds from gradin than $1 \%$ made up of weed seeds and dirt, and (3) the germination of the seeding falling below $85 \%$. New seed can usually be banked upon for germination, but to b the purity test. So many in sending letters and samples of seeds to
the Seed Branch use postage, that it is felt that the attention should be called to the fact that not only does the Seed Branch tost O. H. M. S. brings everything to the Branch instead of culture, ottawa addressed, Seed Branch, Dept. of Agri

## Soreading the Cospel of Progress

$\qquad$ The first cement silo wilt appear in Eastern Ontario Keing an ex-student of the Ontario Agricultural Col me. as you keep in very slose touch with the help to I enclose a short article on "Care of Manure." The discustions on such subjects as taken up by " The Farm Advocate," are very much appreclated by your
ceaders down here.
CLARK HAMIL

## THE FARMER'S ADVOCATE.

## A Good Six-year Rotation.

Cditor "The Farmer's Advocate":
The subject of crop rotation is a very important one, and one to which too few of imfarmers pay sufficient attention. No farmer can farm to the best advantage unless he has some
systematic plan of procedure, and crop rotation systematic plan of procedure, and crop rotation
is one of the most important ones. If you are going to get the best results from your labors, and at the same time improve the fertility of your soil, you must carry out some rotation, and
one in which clover forms a prominent part, as that should be the foundation of all our crops. The man who farms in a haphazard way is working at a great disadvantage. He is not geting
from his land all that he might, and, at the same time, his farm is deteriorating in value every
vear. year.
Of course, the same rotation will not meet the needs of every farmer. Each one must adopt rotation which I purpose following is: Clover, corn, roots and potatoes; oats and barley clover; peas and rape; winter wheat and oats seered to clover again. My farm consists of 20
acres, part of which is still in its rough state but bearing abundich is still in its rough state,
in
sood pasture. My plar s to keep just 75 acres under cultivation, the re
nainder to be in permanent mainder to be in permanent pasture. The 7
acres is divided into six fields or sections, taining $12 \pm$ acres each. Therefore, I I have 12 acres of corn, roots and potatoes, $12 \ddagger$ acres
oats and barley, $12 \sharp$ acres half of of rape, the rape being fed off in the fall the other ntended for fattening the following winter. The ield is divided by a portable fence of hurdles Which can be put up in a very short time. The o winter wheat that fall, and the part the sown was on will be sown to oats the following spring all of which is seeded to clover again. In this
way I have 25 acres of clover hav ing a lot of excellent feed for the stock during the winter. This plan seems to suit my circum stances, as I keep only one hired man. If If were
keeping more help, then I might keep under cultivation, but the price keep more land days is a great drawback to agriculture, so we must cut our coart according to our cloth. $\begin{aligned} & \text { to } \\ & \text { Bruce Co., Ont. }\end{aligned}$ W. H. ARKELL.

## A Modern Three-year Rotation

$\qquad$ upon a proper of crops, Every tepend There may be times and circumstancoe or crop rotation. dififcult for him to follow the plan mapped out-such as the loss of the clover crop from winter-killing-but this drained, either naturally years mo heó
rotation. We first started out with followed a regular tion, consisting of, first year, grain ; second and third years, grass ; fourth year, roots, corn and peas, but we three year rotation, having only one almost entirely-a otead of two. Wo. found this suited to our case better as we grow considerable alsike clover for seed, and as ts removed, this put part of the son as the first crop
 it somewhat inconvenient; therefore, we have gradually changed to a three year course: First, grain ; second,
clover; third, roots and have a large amount of permanent matyon that we enables us to carry out this system with greater oase ap until about the 20th of June red clover is pasture produce a crop of sead. By keeping then it is left to pally on the clover fields in June, it allows aurincl manent pastures to get a good growth, which is a prent elp in carrying the stock through the dry time in the this pasture land of th deep soil.)

- bjections are sometimes raised to the large acreag not been doing well, but we have been where peas hav not
upon peas pretty well. Permit me to instanco derens where we departed from the usual course the past year On a farm we purchased two years ago, some fields were until about the middle of
 shallowly, we applied a top dressing of manure, which puts it in good condition for seeding with grain and the short rotation is that we get clover into thes of every third year. This adds a great doal of fertility to the land, in the form of nitrogen, that is gathered from the atmosphere, and costs the farmer nothing : the roots of the clover plant go deep into the soil, and bring
back the fertilizing elements that have been washed down beyond the reach of the roots of ordinary plasts. down combined fertility-that which is taken from the atmosphere, and that which had been buried deep in the soil
and brought back-goes to build un the stem in of the plant, which is one of the most nutritious the
farmer grows for the feeding of stock, and in turn makes maining boxes and to the horse stable, and th one of the most valuable manures when returned to the manure is drawn direct to the fields, except in The mechanical effect that these deep-rooted plants then a wheelbarrow is used. The doors of boxe a greater depth than vented, without any wear or tear to horseflesh or implements. ground adds a large amount of humus are loft in the soil, which warms it up, makes it more retentive of soil moisture easier to work and more certain of getting a catch of lover when it is again seeded.
weeds without much on we get rid of many troublesom
the crops of all kind
HY. GLENDINNING.


## are greatly increased.

## Plans of a 1905 Middlesex Barn

The accompanying plans are of a barn built
in 1905 , and have proved very convenient. Many frames of two old ones, while the old lumber was used for sheeting and for flooring of mows in the
new. The wall posts are 18 teot new. The wall posts are 18 feet, the roof being
What is known as a double hip roof, the ridge be ing 38 feet from the sill. The purline posts rul
 open inwards, and are hung four inches clear of Che floor, these boxes being cleaned out at leas
once a week, some of them daily. We do no find any inconvenience from litter, etc., getting be hind the doors, and we find them much more con-
venient than the old stalles where the doors opened out; while, should one accidentally be lef unfastened, the danger of an animal finding it
way out is reduced to a minimum. The way out is reduced to a minimum. The door
connecting boxes 5 and 6 allows, eithor separater or together, of both boxes of calves being turne out to the same pasture. Box 7 has a doo Which may be fastened against the partition, and is really a passage where hay, etc., is put down
ior sheep, but, in emergency, may be used for or sheep, but, in emergency, may be used for
sucking calves. Boxes 1 and 2 are fitted with stanhions. No. is is for calves being fed fred
pait, and No. 2 holds eight young cattle. pail, and No. 2 holds eight young cattle. The
stanchions are only used at feeding time, so that tanchions are only used at feeding time, so that than its share. rise six in mes to have concrete bottoms : these rise six inches to twelve inches from the floors door or stall posts, and
there is no post in the The cow mangers
slope up towards the
feed room, while the
side noxt the side next the cows is
made with a movable $\underset{\text { plank which can be }}{\text { slipped }}$ between cleats slipped between cleats
fastened to the sides of astened. This plan permits of a long stall
being made into being made into a short
 the chain hangs leing
also movalle. Hy chang-
ing its bolts to other holes bored in the stal The horse mangers swing into the fee
room (see plan, Fig. 3 . We considen both
cattle and horses
keepp
better health in at fairly cool stable, and have no obiection t
having both in ot
basement. Plenty ${ }^{\text {o }}$ lasemene peing a necessity,
light
in addition to the foury $n$ addition to the four
ceen windows of eigh ten-by-twelve panes,
there are fanlights above all the outsid
doors. thus allowing
he sunlight at al the sunlight at al
hours of the day to to
reach all the way ceach all the way
across the stables, ail
talls and ain stalls and divisions be
ing low. The windows
are in two sections, the are in two sections, the
upper half being hinged
to the lower. allowing to the lower, allowing
then to be oopened in
wards from the top,
providing for much or
$\qquad$ quired. Up to tho perpendicular, which, in a barn 54 feet wide, no stable odors, and the therment there have been
leaves resistering posts (see Fig. 2). ${ }^{\text {a }}$. The chutes for hay and straw 45 to 50 degrees. The 7 -foot doores are on roll extend nearly to the roof with the mow and straw of ers, all others being hinged, while the 3 -foot
shaft made in sections of four or five foest Shatt made in sections of four or five feet, a six- the main entry. end, being nearest the house, is tion. A button on this board holds these sec-
tions or doors in place, allownelar

## $\underbrace{\text { A. }}_{\text {A }}$

cug open at top and bottom, and the same of
cumferce as the chute, is used; this is a tinuation of the chute, and reaches the basentent
floor, thus preventing dust from tly ing through When not in use The feed room, centrally located, is large, but $\begin{aligned} & \text { and as } \\ & \text { lon ancon }\end{aligned}$ sages being added to it.

engine the cheapest power the farmer can use for after a bare tallow. Gasparin has said, "Beans wil with mine.
Terrebonne, Que

Crop Rotation in the Bean District.
Editor "The Farmer's Advocate ":
In y your isese of Febrrany 15 th, you put the qu tion, "What is your crop rotation ?" While I am not
nor do not protess to bo a scientifc farmer, and, theretore, do not give you my plan of crop rotation as ono
that is correct and should be followed, I take it that you wish someone to give his rotation so that in any
discussion or criticism that may follow there may be some benent derived for all. To set the ball rolling,
aherefore, and in hopes of someone giving a better plan, therefore, and in hopes of someone giving a better plan,
I humbly submit the following, which I have followed,
 xxcept where rotation was broken by
catch from drouth or some other cause
 than it the crop had not been grown. This crop, to my
mind, stands preeminenly at the top, and cannot under any circumstances bo placed in any other position. The
horses taten on it ; thero is on outhing beterer tor cattle; the sheep reilah it it tho it. It is the mainatay and
the hoss tand

 is my hoby $I$ Id not sow five pounds of timothy or
other grases seeds in as many year, and when I do som any it is is omome very fertios spots (dioperesions, water





 $t$ tarmers found that when a clover crop was gown twice and all the hay removed from the fold, tha land is lett
in better condition than if the clover had boen mown
bow

 themselves that where the seeond crop of clover wus lett to ripen and clover sed harvested tho succooding crop
of wheat was better than whers the cilover had beon mown twico tor hay. Voelcker experimenting gaong this
line tound that tho roots of clover plants that wero al-
 ditierent liyeref of of siil examined was richer in in itrogen atter sead clover than ater two crops of clover hay
Bousisirnault, a French experimentur, deteremined that









 that it was reegnized very early that manuro may
afely enough be appticd treely to compact clays, wherere










1oar very well a complete manuring, which causes them
Io grow rapidy when they are youn, white later on the
action of the leaves takes the place, so to say, of that of the roots, and the plants appear to be nourished at
the expense of the air."
Hilligigel, the great German ch mist, proved after
many careful and painstaking experiments that various kinds of leguminous plants do constantly obtain nitrogen
from the air, and has shown that large quantities of leguminous plants. My own opinion is that a bean crop is not so exhaustive on the land as a crop of the
cereal grains. I have made many examinations of the roots of bean plants, and I have never yet found them whole Leguminosmen family such an andesteemed position in agricultural economy. Under the present system of har-
vesting, practically the whole of the bean root is left in the land. lically the whole of the bean
The rotation that I have outlined is: Clover, fron which one crop of hay is cut, pasture one year (clover
seed if possible), corn on clover sod, then beans (with seed if possible), corn on clover sod, then beans (with
manure), followed by wheat or oats, and re-seeded to
clover. Roots are prown to a limited extent for stock feeding, but not in large enough areas to be considered territory on which beans are grown in Canada is very
limited, and the rotation I have suggested will, therefore, be not generally practicable, but in Kent County the bean is king. Beans are the one product of the
farm here that is relied upon to bring up the big en
of the cash returns of the year's farm operations. Fo a number of years past the yield and price have been
such as to give the fariner no reason for complaint. With myself, the average yield for the past five years was 24 bushels per acre, and the average price at which
I sold was $\$ 1.38$. The bean stalks or straw is relisho hy all farm stock, and helps make variety in feeding
operations. The soil and climate of this district seems to be particularly adapted to the production of beans,
and let me say, Mr. Editor, the beans grown in Kent County, Ontario, are admitted to be, and without doubt are, the finest beans produced anywhere in the
GEO. E. LEE.

## A Cheap Manure Shed.

## In your Feb. 22nd issue I see that Mr. Lawso

 is criticising Mr. Thompson's method of handling manure, and I think that his criticism is to the mentation and loss of time count, but Mr. Thompson will find that the colored water from spring freshets does not carry away nearly so much fertilizing matter as the rain that falls on his big pile before it is sufficiently rotted will carry into We tha on which it stanas.Mr. Lawson and thereforent methods outlined by when we say we are in favor of green manuring I might also mention that we spread directly from over the usual plan of unloading in heaps, as deal with a sleigh, as it is far more convenient than a wagon. We have not been delayed in seeding by the manure holding dampness or keeping the ground wet when apphe sows tround we intend A point that I wish to touch is the storing of manure. It is not always convenient
or possible for the farmer who has no shed under or possible for the farmer who has no shed under
which to store his manure to draw it directly from the stable, and, with the usual pile of ma-
nure just outside the stable, exposed to all storms and under the drip of the eaves, probably one
half of its first value is lost. Now, this loss can be greatly lessened by the use of a manure shed,
which can be cheaply constructed. If the stables are fitted with a litter carrier, or can be, which can be used to carry feed as well as manure, prob-
ably the best plan would be to build a shed in to it. In this way the manure would be easily handled. The best way to build the shed is to set four cedar posts in the ground, as far apar
as you wish; if more than eight feet, interme diate posts must be set. Board up this en-
closure about two or three feet, put on a cheap substantial roof, and you have a cheap and handy way wide enough for a wagon or sleigh is kept through the middle in this way two men can work to better advantage when loading. If this
is done, posts as high as it is boarded up will have to be set along the driveway also. If the
manure is thrown out in a heap by hand, a roof over it will be a great protection, and will soon
pay for itself in saving the manure. As Mr awson says, let those who have good suggestions
". CANUCK."
offer speak now.

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## The Farmers' Banquet.

## Dear Fellow Farmer: With the

 The Farmer's Advocate, I address this letter directly to you. Does it not strike you that we have been having a surfeit of good things in 'The Farmer's Advocate lately It also strikes me that if we do not discriminate a nittie in our choice of the "good things," we will be in much the same boat as the fellow who wo the big banquet in Massey Hall recently. A surone or goolish gour to whole list, he was foolish enough to swallow the whole list, morning. So I think we had better use our best judgment, too, and when we hear someone yelling across the table that the Yorkshire and We see the Dominion Department of Agric ture, too, these days, sending out a statement regarding the hog industry, and advising farmers to have their spring litters come in March or April.Say, if they come then, and take about 7 months to grow (and they will on cheap feed), what time of year will they be ready to turn off? I think have heard time and again lately that it is a bad month for low prices. Forewarned is forearmed, though, ain't it ? What do you think about this Consolidated What do you think about this ConsolidatedSchoo business that is being agitated through with only three children going to school, and the section all settled. If you are a bachelor in that section, I haven't much pity for you. If you are get a good teacher there. But say. I think the ordinary section in our part of the country here is doing very good work with the children, up to,
say, 13 or 14 years of age. I think it is afterwards that our education is deficient in fitting our children for rural life. I would like to see schood lecture-room added to about every third school in our district, with a good shed for horses
handy, and a course of lectures, both instructive and entertaining, carried on in the winter months. think it would nearly solve the problem here. The children or parents, either, could attend from ut any cost for conveyances, and, if needed in he summer, children over 14 years could reach the school on bicycles or with horses. The lecinfluence of the Farmers' institute and of the Institute work, and, I think, would be appreciated and perhaps stop the complaint that we hear Farmers' Institute that we should. use of the this year on dairying, and next year on the bacon hog, and next perhaps on horses, cannot be very ar-reaching, can it? And it would not be nearmo far-reaching as it is if we did not have a it to us. I would be sorry to blame the Farmers ${ }^{*}$ Institute, or those connected with it, but still we he a meep moving, and do you think this would would pave the way so as to make it easy to consolidate two or three schools of younger chilschools but I don't like the idea of our public or a year or two when a section was at except ebb. I know two neighboring sections in our 30 scholars; the one, ten years ago, had about ondition and about 10 ; to-day the Did you laugh when
Manager of the Bank of Commerce, speech of the telling the shareholders about sending to their agencies in August or September last fall a stateabout 84 million bushels, and it turns out now 86 million Government reports, to be about 14 million bushels went that we the other about last fall when we had our wheat hearing Curious how the bank knew it so soon. very post office and make "A correspondent at vocate " the bureau. I think The Farmer's AdGov't. gait in getting out a report.
Well, I guess I better stop writing; but say, when I am at it, I would like to ask you if you ave earnings averaging banks in Canada could 20 per cent. on their capital ? That must, if nderstand it right, be after salaries are paid hem. How many farms in Ontario would fo 10 per cent, on capital account, after the worker have more brains in those ? They surely must banks; or, do they work harder ? Waise ouldn't there be a howl raised if we were to raise an immigration fund to assist a few Ger-
man or Russian banks to man or Russian banks to locate in this country?
But, of course, the more competition a farmer hat he better for him. Hoping to hear from has, soon, I will now close. LACHCHLN MACKAY.
Maple Avenue, Ont.

## How Best to Apply Manure

sible annually，and especially should they have it demon astrous to the general welfare to have the thousands
and tens of thousands of our province＇s most fertile Cands turned to grass，and so taken from supporting the fast－growing evil，and soon as possible have those the butcher＇s bullack，will breod，wrow and fend to ．
finish the profitable kind，which will ufford sutisfaction and give profitable riturns．On many occasions we had
at our meetings the ster－grower who sells his good
two－year－old animals in the spring：and the prazier whin
$\qquad$



But we go a little further，and what means the r
markable change？Land of similar quality，but wher are the men and the women，the boys and the wirls
Homes once filled with comfort，still worth hundreds an housands of dollars，standing with broken windows an slamming doors，meet our gaze；barns，once good ant same，withal having the appearance of being by drunken sots．The bullock and his bachelor master explain the mystery．Why such conditions prevail is beyond comprehension．Enquiries as to why，were met
with the plea，＂We cannot employ the labor neessen With the plea，＂We cannot employ the labor necessary
to keep the land in cultivation，＂while the truth is tha the disastrous change is rapidly driving the populatio age of help．
The existing conditions are serious－most serious－ have a bad effect on our Provincial welfare．Supposint the process be allowed to continue，what then？Schools villages will be wiped out of existence，and towns wil of，a consuming population
ene school section in an imaginary picture，as already we school section，in one of Ontario＇s most productive
western counties，IS NOW WITHOUT A SINGLE CHITD TO ATTEND SCHOOL，and the same county he CHILI thousands less people than it had some years ago，and all the loss has resulted from throwing excellent land lost sixteen hundred of its population from the has

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The farms so thrown out of cultivation are not pro
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ducing in annual returns of dollars more than one-third
of the amounts that would be obtainable from them
families who once occupied those most fruitful fields dio
pose of them, and seek far more uncertain prospects,
comforts and possibilities elsewhere, is a mystery. They
may roam the world over, and cannot find in any coun-
try equal opportunities for making
pleasant and prosperous, or a place where ultimate suc
cess is so sure and certain.
The deserted-looking farms are not only hurtful $t$
the general interests of our Province
for who can feel comfortable in the country, if the
iority of his neighbors take flig
two or three weeks driving through Middlesex Coury
with fertite looking land on each side of the way, but
sight, one or both being the abodes of wealthy bachel-
ors.
The writer takes the stand that the whole condition
of the finishing-on-grass cattle business is not at all
what it should be. in order
What it should be, in order to have general prosperity
secured, and keep the good land in cultivation. It is
some
some yea
grazier,
inle medthrming, it would soon lose its charms. A
rule wealthy men-mostly single men-are they who
in the business. They can, by controlling large ad
he one with an ordinary amount of capital would fan
if he supported a family, that his surplus at the year
end would not equal the balance on hand resulting from
mixed farming, even if he had to lay out considerable
nixed farmen extra help. As it he had to lay out considerabl
ing more than a small iraction of the populatio
eapable of doing, and
Province only a similar
ble from mixed farming; and cattle finished un gry
in any of the world's leading markets.
excellent cattle-growing and finishing-on-grass on
excellent farm lands of Western Ontario, is not
rofitable system for the breeder and grower.
lance, the growing of stockers may
found profitable where conditions are against the
ing of feeds to finish in the stall
But on the rich, fertile lands of Western Ontario,
man who breers and grows qeod hullocks is the ont
who should carry them to the highest possible finith
In the finishing process, usually the best profit is found
directiy and indirectly-directly in putting on the mar
o. The land a bettor quality of manure.
The Givernments of the past and present, hoth at
Coronto and Ottawa, have done well to the dairy cow
noplation in Western Onia． As desired by you，I will endeavor to give my opin－
fon of conditions existing in some of the Western On

| the dairy cow has received the bucketful，and the | r |
| :---: | :---: |
| bullock just the drop，of assistance．Beei－growing in Ontario was a miost profitable line of our work on the | The qumeriow of how to apply manure with $t$ |
| Ontario was a most profitable line of our work on the | tille watce is certaimly one which should |
| the mixing of dairy bl | ussead．un a mreat deal of a farmer＇s |
| $t$ the mixing of dairy blood with good steer－producing | on the saving of all the manure possible． |
|  | $h^{1}$ Mr．Lawson＇s system，described |
|  |  |
| airy | om the stables．（of course |
| heifers． |  |
|  | small account when the manure is all piled togethen |
| ty，and | there is plenty of time to |
|  | the winte |
| inspectors，and many other lines of sup | employ |
| Provincial Government could take means | a manure spreader（which 1 consid |
| n Ontario men that the prosperity of the Prov ds on every part producing the most wealth |  |
|  |  | tario counties，as seen while engaged in Farmers＇Inst this year．Not in all my wanderings，for many years， did I ever meet such surprising conditions and strange

contrasts．Here we meet with every appearance of pros perity，of comfort，of trim homes and splendid barns urroundings of these homes show and success．Th productive，and that good management the soil is mos the farmer and his family full enjovment of life ang the bleasure received from winning out，in securing and th petence，full and plenteous．
$\qquad$

$\qquad$
$\qquad$ Prevention of Smut and Apple Scab．
$\qquad$
$\qquad$ seems to be the craze． but the gambler＇s hope is strong．and this year－wh
many weak operators were wiped out－the game co tinues．it is too monstrous a condition to think there being any possibility of its continuing for any
great length of time，but it is quite possible that untmil
harm may harm may be done before people return to their senses
before they realiee that nowhere on parth is success readily obtainable in farming operations as is in rear
in carrying on mixed farming on the tens of thousand bome crops chan seed incans grood crops，and tore，to take a fews simple precautions，especially When it is known that these precautions will save
much money．Smut is very provalent in many oy this disease alone amounts every year to two are so small that is is impossible to she them on tants，with a stray man seen ocrasionally，and all that vised for killing these attached spores is the seed grain with a dilute solution of
dreams. Same who left, went West for twenty or more lin can te prormed at almost any drug store for
years, are now
Wostern fover. were tulked into wisoly considering their oblution sprinkled over it hy moans oi a sprin-
maitio farms. and stated their determination to rp- lodl ore and mixed while it is hemy sprinkled,
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$
$\qquad$

Approves Our Stand re Preservation of Wood－lots．

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Sditor " The Farmer's Advocate"",
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 ！a sur mant min in Alidulex：co．（mill

23 Acres for 21 Years in Lucerne.
 crop, as well as pasture. Rarely do we send
red clover, and we sow but very little iime
We generally We generally mix a very little red clover a
timothy with our lucerne seed-just chough timothy with our fucerne seed-just enough
thicken the botom for the tirst ycars crop,
it helps to form a little sod, so that, in a time, it does not cut up so bad with stock on as lucerne forms no sward. The second yea
lucerne thickens up by forming a crown, and the lucerne thickens up by forming a crown, and ther
are perhaps four stems to one the first year, and
as it grows very rapidly, other grasses that wer as it grows very rapidly, other grasses that
sown to thicken up the first year's crop have
give way to the lucerne the second year, and give way
the third year it practically monopolizes the field,
if it has been sown with about 15 or 16 pounds if it has been sown with about 15 or 16 pounds
of seed per acre. Meantime, the little grass that
was sown along with it has, afforded a variety We have sown lucerne on low-lving land, prop-enfy thamed, and it has done welf, only on level more risk of ice forming around the theable amount of time to jot the weight down on
land
crown俍 a bottom so the roots can go down. (1n level then tested twice a year for system which certainly han land we ridge up our field in fiften-foot ridges ant ber recommended, where one will take the time neces-
with a good round to them, and put in lots of sary to keep composite samples from each individual
water furrows to carry off surplus water whou cow We had $2: 3$ acces sown to lucerne for ahout 21 the mere taking of the weights and jotting down the
vears without a break, with the exception of a few fikures on the forms was so small as to be unworth small spots where it was killed hy ice forming of consideration. However, in reckoning up the tigure in spring and reseeded. This was sown on high milly clay loam, ridged up in 21 -foot ridges, with
all the crown we could give them. We put in were mown for hay every year, then pastured
halance of season. We always considered we got
about, theree about three tons per acre-a little less in wh
years, as it would lodge hadly then, and not b very heavy. in less than three weeks after th
hay was oif we would have prasture to the kneer no matter how dry the weather was.
We have tried all methorls of seeding; hav
sown it alone on small field, and hand-hoed th whole piece botween the drill marks. While
did well, it did no better than other seedin with nurse crop to keep down the weeds. W
have found 14 bushels harley per acre to he ou
favorite seeding crop, though it will do well with peas, if not sown too thick, especially with gras
peas. Oats are not good to seed any kind
grass with, and lucerne does not do well oats or with fall wheat. Sowing lucerne in spring it can hardly be covered deep enough, unless th
the
wheat is top-dressed through the winter, and har rowed well twice after sowing the lucerne seed.
We have found it always does better to be we
covered, and we sow with drill ahead of hoes, covered, and we sow with drill ahead of hoes,
harrow after the drill with heavy diamond-toot
harrow. We generally top-dress any land we al
 heard it claimed by many, is that it interfere With the rotation of crops. I don't see how that
is. for it can be plowed at any time, the same a
chower It conts a litte nore to sed down
though not very mouch, and I will warramt, Droperly sown with a little timothy, it will cu
as many tons as almost any other kind of hat
the first sear. and give far more and better pas ture. The first crop of red clover is generally
protty rank, and often not cood has The firs
cut ing of lucerne will all be gooll We have wins high streph hillsides on some parts of my farm id to alfalfa, where it grows abundantly, and is wise have been wasted. heeping a daily milk record the sweetest of feed, for stock of all kinds like sult in obtaining increased yyelds from a given herd o
th. hillsides best, and it grows as well there as cows. except in so far as one noti es any decrease in lusion, that the 23 acres that were in alfalfa for Wonut 21 years never was top-dressed, that I re
momber. in that lengeth of time, and we could sole difference in its prowth. In the spring of Wats I think, there was a very late frost: it
vas then about 12 inches high. Most all imea-
lows were spoil for that spason. We put the
luower in our lucerne. and raked and drew the max mown

Durability of Cedar Posts

THE DAIRY
Individual Milk Records Again.

## forms ready for use. This you can see was a mer





hief benefit to be derived from the keeping of these recrds lies in knowing accurately how profitable the best cows are, a a abo example of the poorer cow, anyones. In the above exact amount of milk produced by this cow would be inclined to give her a much higher
standing, owing to the high per cent. of fat contained standing, owing to the high per cent. of fat contained in her milk; whereas, knowing the actual facts, she proves to be an unprontable cow, and one or the
we cannot get rid of too quickly. It is only by putting the dairy industry upon some solid business basis
that we can hope ever to make any advancement. And that we can hope ever to make any advancement. And
how can we do this more effectually than by knowing fust what each cow is doing, and discarding all cows Brant Co. Ont.

## P. E. Island Dairy Association Annual Meeting.

The anmual meeting of the Prince Edward Island biry Association was held in Charlottetown on the not properly represent the dairy industry. From large fictions of the Province where there are dairy stations here were no representatives present. We noted particularly the abrence of our Local Government offcers, the Commissioner and Secretary of Agriculture. Mr.
Whitlev, oi the cow testing branch of the Dominion Dairy Commissioner's office, was present, and delivered a very ceresting and instructive address on the different breeds adapted to the dairy, speaking particularly of the weed y scales and Babcoek lest in order to eed out the non-producers, and get a good producing Ho strongly advised forming " cow-testing assoment would send an expert to conduct the tests for such associations.
The Secretary's report was an exhaustive statement The Secretary's report was an exhaustive statement
of the dairy business for the year. with some comparisons with last year's operations. The report took
a hopeful view of the future, though it showed a falling a hopeful view of the future, though it showed a falling
off of over three million and a half pounds of milk from
last year's figures. The total supply of milk recaived last year's figures. The total supply of milk received
this year at the 47 factories and two skimming sta-
tions was $28,151,720$ pounds. The gross value of tions was $28,151,720$ pounds. The gross value of
chense was $\$ 177,291$, an increase of $\$ 17,194.40$, and the
gross value of butter was $\$ 104,633,24$, an increase of gross value of butter was $\$ 104,633.24$, an increase of
$\$ 4,336.75$ over last year. The net value to patrons
for cheose for cheese was $\$ 137,393.75$, and of butter, $\$ 78,464.36$.
One reason for the heavy falling off of the milk supply
f One reason for the heavy falling off of the milk supply
from 1904 was the terribly severe winter and the ex-
tren treme shortage in feed of the previous winter, which
left the dairy cattle in poor condition to begin the season's work at the usual time, June 1st. Many of
the cheese factories did very little in June, and some the cheese lactories did very little in June, and some
did not open till July, thus shortening the cheese season
to about four months. Abundance of together with months. Abundance of feed this winter, seasther, with the expectation of good prices again next
seasone, believe, encourage many more to Patronize the dairy stations next year.
The report of Mr. Morow, the inspector who has
the oversight of nll the dairy stations. was very flattering to the companies and the factory managers. He said, after reading his report, "' You cannot help but
notice the continuid repetition in my report of the factories being kept so clean. I am glad to be able to
say this. I question very much if it would be possible
to visit the same number of factories in any other secto visit the same number of factories in any other sec-
tion of Canada and find so uniforma a system of make.
and thorough cleundiness on the part of the makers." This, coning from an inspector, is certainly very complimentary to our cheese and butter makers, as well as
to the directors of our co-operative companies. The to the difectors of our co-operative companies. The
great need here is to increase the number of patrons and the quantity of milk supplied. The cost of manufacturing is koing up higher every year since the milk
supply has been falling off. Makers that used to make supply has been falling off. Makers that used to make
cheese for snc. per 100 lbs . are now getting as much as 9oc. Supplies have advanced, especially cheese boxes, and milk drawing is consting nearly $50 \%$ more at many
fuctories than it did five years aco. ${ }^{\text {The }}$ The only remedy fuctories than it did five years ago. The only remedy
for this is to increase the milk supply. The cow census work was carripd on here for the first time last summer. The carried on here for the
anerage for 90 cows in the that the a erage for 90 cows in the month of August was 680
pounds of milk, of 3.7 per cent. fat, or 25 lbs. of fat
pach-a little over 21 the pach-a little over 21 lbs. of milk per cow per day. the poorest only 14. These tests should certainly educate our dairymen to wedd out the small producers from
their herds. We look for brighter days for our dairy
2.083 industry in the near future, but they can come only 1083 through the intelligent effort and friendly co-operation
370.9 of our dairymen. We would respectfully suggest to the
$\$ 145.33$ officers of the association that they prepare a programme for the next annual meeting, and get some of
our most successful dairymen on it, to tell of their 4.9 mothots to those who have not paid particular atten-
4025 tion to milk production, the programme to be published $\$ 53.90 \begin{aligned} & \text { some time before the meeting, to induce more factory } \\ & \text { atrons to attend. The old board of directors and } \\ & \text { officers were reelected. }\end{aligned}$

If you need a knife, you should not miss this oponortunity of securing one for sending a new
suhscriber. You will feel well paid for

## Easy to Form a Good Habit.

 Editor " The Farmer's Advocate " :In your issue of Feb. 15th I noticed you devot In your issue of Feb. 15th I noticed you devot-
ed quite a space to weighing and testing milk ed quite a space to weighing and testing milk terested in, although I am only a beginner, have
only been keeping records so far a little over a year, but it is a great thing, and I am in favor of the daily weighing, instead of three times per month. In the daily weighing there is no guesswork, and should you happen to be away for a
few days, you know if your herd has had proper few days, you know if your herd has had proper
care or not. care or not.
Am a breeder of Jerseys, have a herd of forty five head; milk about thirty in summer; have them freshen at any time during the year; at
the present time am milking seventeen. I have only been keeping a daily milk record since Jan. by the Experimental Farm, Ottawa. Take samples of milk every few days, and test once a month. Some say it is too much time and bother to weigh each cow's milk twice a day. If you have your scales handy and sheet, you will form a habit in just a short time (a good habit) And who wouldn't be willing to spend an extra
half hour or so if he could increase the flow of half hour or so if he could increase the flow of
milk a thousand pounds per cow a year? Would he not be willing to devote one minute a day for hours a year for one thousand pounds of milk. can weigh my milk and record it on an average
of three-quarters of a minute a day. Am sorry of three-quarters of a minute a day. Am sorry
I am not able to give figures as to how much I have increased the milk and butter yield of my this year is against me, as last season being so wet, my corn crop was a total failure. I usually
fill two large silos, and my total crop of fodder corn was five loads. At present have only six
cows that have finished one year's milk ; they averaged 5,000 pounds of milk, testing $54-10$ per
cent. Please don't think these cows were fed cent. Please don't think these cows were fed
high, as they only received four quarts (not pounds) of bran per day through the winter, and none in summer. In keeping a daily milk record,
one is able to get increased results, as he has a
chance to study the wants chance to study the wants of each cow. Some cows will do better on one kind of feed than an-
other. Would like to be able to give a few figures, but don't feel safe to do so, as I have
not been weighing long enough. Now, I will not close without saying a good word for " The Farmer's Advocate." I have been a constant reader be without it at almost any price. Wishing you
Mr. Editor, and your paper, every success.

Milk Records Save Over $\$ 6.00$ a Year per Cow.



## A Milkman's Aerator.

The milk aerator, cut of which I send you, is we cannot be without it. It is very easily clean-
ed and easily filled with ice and water : someed and easily filled with ice and water ; some-
times we have to fill twice while milking, accord-


GARDEN ORCHARD

## Varieties of Fruit for Home Planting in

 Nova Scotia.I am asked by the editor of "The Farmer's
Advocate" to discuss the question of varieties of
fruits adapted to this Province, and I cheerfully fruits adapted to this Province, and I cheerfull,
comply, partly because it is a subject of pero nial interest, and partly because, having observed the matter rather carefully in all parts of the
Province, I hope I may be in a position to suggestions of value to intending planters. I shat speak of it primarily from the standpoint of th home plantation, and will merely refer incidental
ly to lists of commercial sorts. Taking the apple first, and beginning with the
first of the season, the Yellow Transparent first of the season, the Yellow Transparent, Red
Astrachan and Duchess of Oldenburg are preeminent as early sorts. They are hardy every There, bear well, and ho home orchard is cont
plete without them. Incidentally, they are very
profitable for local markets when not grown profitable for local markets when not grown too stein (top-worked in the colder parts of the Prov tricts of the Province I should also try two other Carly autumn apples-the Victoria and williams Favorite. Both are handsome red sorts of fine
quality (the former of the Fameuse type), and are follows the Ribston Pippin, which, according to my. observations, will succeed more generally over
this Province than any other standard soly to any exhibition, and you will sort Go
to and Ribston Pippins from every county. About
this date, or a little earlier, come in the Fmperor Alexander and the Wolfe River.
Personally, I should set them only in the colder sections, yet they have friends even in
the Annapolis Valley, and there is no doubt thev would take rank as commercial variaties, at least for local markets, in the colder parts, of Nova
Sicotia and in New Brunswick. Next, following
these, come McIntosh Red. these, come McIntosh Red, a superb apple, and
hardy everywhere, but spotting badly unless
Sprayed; the Bishop Pippin, one of the finest apples for cooking and dessert, but not grow
for shipment, much better than Baldwin in quality, but hardy
Northern Spy, slow in coming into bearing, but Northern Spy, slow in coming into bearing, but
unexcelled when it gets in (should be top-wr but unexcelled when it gets in (should be top-worked);
Golden Russet and King of Tompkins, both rather shy bearers, but too good to be left off the list. This already seems like a formidable array of
varieties, and, from the commercial standpoint,
certainly would be; but the home orchard can
stand things that stand things that would swamp the commercial
one. Fven now I have left out a number of varieties which are very popular with certain
planters-Wagener, Hubbardston, planters-Wagener, Hubbardston, Rhode Island
Greening, Ontario, Hurlbut, and Ben Davis, for
example. In pears, the Bartlett and Clapp succeed almost
cwerywhere, and the Flemish Beauty mont Beauty $\begin{aligned} & \text { would, } \\ & \text { if as generally planted, } \\ & \text { though, of course the former }\end{aligned}$ geaut and Vering if one is to get clean fruit. These four ar tions of the Province, but in the better fruit
sections. Anjou, Louise Bonne the Clairgeau are good sorts to grow. Jersey and
Plums can bo Plums can be grown almost everywhere, if one
selects the right sorts. Fven in Cape Breton they are profitably grown, and, for hope Breton
ought to be far more commonly planted use,



 for our work It is not set in box which shetch Cumbromplat for Werds. and (iregg. Kansas and
 ". More than pleased," is the way our sut
scribers express themselves about our premiums.

## Pruning Truit Trees.

By L. Woolverton, Grimsby, On Two extremes in pruning are to be avoidel bou chery of the trees. Some there are wh in
bust on snwing off-all the lower limbs, big an sist on snwing ofi-all the lower limbs, big and
little, until the bearing wood is often beyond the reach of the longest ladders, while other ture, and the result is a tangled mass of brush and no truit worth picking.
If the pruner would more closely define in his
own mind the objects in view, he could do more intelligent work. Every cut should be made with a reason, and each tree should be pruned annually, so that le may
to cut off large limbs. IT remember hearing Prof. Roberts, of Cornell University, give an address before the New York
State Horticultural Society in 1892, in which he emphasized very strongly the importance of thorough and fuaccious pruning
graph from my notes: "It is not possible,", "aid he " "to prune the orchard on the same principle
as wo prune the grapevine." Is the plant for as wo prune the grapevine." Is the plant food
improved in quality by transporting it through improved in quality by transporting it through
80 feet of wood betore reaching the fruit which it is destined to support? We grow too much
timber in our apple orchards. We ought to separate forestry from fruit-culture. Our orchards too many poorly-flavored apples. If by heading back the top and furnishing a reasonable amount of plant food, by fertizizing, cult ivating, or by Ceding sheep ir an orchard,
difficulty, a great advance will be made.
Pruning may be done at almost any time, but, as a rule the month of March, when the severe
cold of winter is past, is the most favorable: and cold of winter is past, is the most fayorable; and
next to this we favor the autumn, just after the leaves have begun to fall. Light pruning may be done in summer; Indeed, a favorable
time for healing wounds is June and July, when the growth is most rapid. Summer pruning is, it robs the tree of a certain amount of potash and phosphoric acia, which is at that time in the foliage. Before the leaves fall in autumn
this is mostly given back to the wood cells of the tree, so that the tree does not suffer any check in vigor by the natural loss of foliage at
that season. If, however, a tree is making too that season. If, however, a tree is making too
much wood, a summer pruning tends to check it much wood, a summer pruning tends to check it
and throw the tree into bearing. The same effect would be produced by ceasing cultivation or withholding fertilizers. It a tree is making less than a foot of new wood, it needs fertilizing, shorten-
ing back, cultivating, and such treatment as will encourage growth ; if more than a foot of young wood, these means of incroasing vigor may be withheld.
the apple tree
The pruning of an apple tree should begin with
the day it is planted out in the orchard
The the day it is planted out in the orchard The
nurseryman usually tops them at about four or

$\underset{\substack{\text { Fig. } \\ \text { tree pruned for } \\ \text { for }}}{\text { ande }}$
five feet high to cause the formation of a head the farmer, in planting, should prune the branches
back somewhat, as shown in Fig. 1, being caretul
 ward split open. With a Baldwin or a Grening
there is little danger of this, but with a Spy it there is little danger of this, but with a Spy it
is very common. We have often lost large
tranches, hranches, and in one instance a whole tree, 20
years planted, by its splitting down on all sides
with a heavy load of fruit With a heavy load of fruit.
At the cond of the first season the tree will have snmerthat the form shown in Fig. 2. The pruning now and henceforth will be more a matter of jurgment than of rule, having in view the future
form of the tree. The weaker limbs, and those (crossing, should be cut away, and the growth of the others somewhat directed.
Different varieties, however, have their own habits of growth, and these must be encouraged
The Greening Roxburg Russet
Fameuse The Greening, Roxburg Russet, Fameuse,
Pippin, King, etc., are spreading in habit, and


Fig. 3-Habit of growth of a Greening apple troo. spread like a Greening, the tree would be full of head and spreading branches of a well-traine Greening apple tree, and Fig. 4 that of a Spy or Baldwin,
The
h
tilage height of the trunk should afford easy bered that when trees come into bearing the

limbs will droop more and more, and become
very troublesome to the plowman. ${ }^{\text {He }}$ the very troublesome to the plowman, He then vows vengeance upon those
come, without the least regard to the symmetry of the tree. This must bo avolded by forning
the head a little higher than is usual, say at the head a littlo higher than is usual, say at
least five feet from the ground. limb off an apple tree. I study to avoid the


Fig. 6 -wound that
necessity of it by annual pruning, and by always
cutting out the smaller limbs rather than the cutting out the smaller limbs rather than the
larger ones in thinning out the top. I someway feel a kind of sympathy for those unfortunate trees in orchards where the pruner saws or chops
off large 1 limbs , in the mistaken notion that he giving it a proper pruning. These great wounds seldom heal over, but rot away into the heart of
the tree and make it hollow ; besides, think how
much tree energy was expended upon those great intelligent which, rightly directed by annual an growth and productiveness. If however, large vounds must be made, they should be painted ver, to preserve the cut sulace il healed over.
In many, instances, thie cutting of lerge imbi shows ignorance of the principal object in vier.
vhich is to thin the wood in such a manner that very part wil he productive, not simply to lessen he size of the whole top of the tree, or, If not gnorance, it must be laziness, for, in order the
lo the worl quicky, the prumer sewe of hall the tree, leaving the, remaining half still as much In need of trimming as before, Such a pruner will
cut off the lower limbs bodily which he can easily reach, unti1 the tree loses all symmetry, and teminds one of one of those old Shangla. ur grandfather's barnyar An observed in cutting of large limbs is to cut close to stab, as shown in Fig. $5 d$ (after Bafley). This stud will not heal over. It wil remain hard and dry, until
 possible to the main trunk, so that the growing bark can grad
shown in Fig.

## The Frult-srowers' Conference.

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ditor "The Farmer's Advocate": , Tl nomintdo 
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 Each of the Provinces has ahigued to individeal mombers of their delegations certain subjecta that they vill brings before the conlecencer iropp te seoking to mato this what might be called o popvar mottingo. Wo appoct thb bulk of the work to be done by the delegater them: selves, and white whe thifik/ it would be e-mott eccellont opportunity for the general publle to be fifformed upon various, topics, and probably help in a varioty of ways
to improve conditions, the eotive pert of tho work wil o improve conitions trebr td the delegeter represtonting he Provincial " Proll-growers ${ }^{2}$ A Awociation, kind aqperts who may be specialy lan wis

> CELMMNARY PROGRAM PM.

013 (J) Perileks
0 a.m. Opening address, Chatrmin (J. A. Rudalek), Adaresp of wat Cofmittee on Programme. Appointinent of Committee on Oredentiala. Appolntment of Committe on Res. $30 \mathrm{p} . \mathrm{m}$. The Fruit Mark Act (amendments) Packeges. Wednesday, March 21st. 9.30 a.m.-Transportation. and Fall Fairs,
2.30 p.m.-Fruit mehibits and P.- Fruit prite Products. 9.00 p.m. - Tvening meotinge.

Thureday, March 220d.
9.30 a.m. - Experimental Station 2. 30 .p.m. - Horticultural Publications. $\begin{array}{r}\text { Is a Permanent Dominion Orgenliation Dealirable ? }\end{array}$ Miscellaneous. M. HaNelti, Cheof Fruit Divilion

## Good Apples. Pcoperly packed, Soll

## or cold in irtain

A consignment of 1,700 boxes was shipped from Halton Co. Ont. in the fore part of December last, and consigned to the well-known firm, L, \&e
H. Williains, Ltd, fruit brokers, the Bazegr, Glasgow, Scotland. AThe shipment, realized as to how the fruit was handled should be of use to shippers sending apples to the Old Country markets. The entire pack was sold in the Glasgow market the Friday before Christmas at unnumber of buyers present at the sale. The apples were packed in three grades, viz; XXX, extra, in barrels. Kings brought $\$ \mathbf{8 . 0 0}$, Spies $\$ 1.87$ to $\$ 2.00$, Greenings and Baldwins $\$ 1.62$ to $\$ 1.80$, "Various" bringing $\$ 1.00$ to $\$ 1.25$ per box. In picking, the apples were put in boxes, and stored, until the entire crop was under cover. Packing the apples commenced immediately, the package used being the 42-pound box, the inside measurements of which are $18 \times 10 \times 19_{2}$ The
package was prepared as follows: A border of package was prepared as forlows was pasted around the sides of the box, meeting in the center, then a band of white tissue paper was placed down the center, and a square of corrugated paper placed on the bottom.
In packing the large varieties, it was sometimes found necessary to place the apples on their sides, otherwise the fruit was put in stem-end downaple was sized and sorted, mak ing an even grade as to stzo, uniformity atic
color, and placed in the paokage by hand, aplece
of thick white paper being placed between each layer. Corrugated paper and excelsior were put on the press end of the box, eliminating the pos Packing tables having wooden frames and duck canviss tops expedited matters in culling and grading
box is 20 in . by 11 of the Government standar an the requirements of the fancy-apple trade. We believe nothing but the best varieties of apples should be shipped in boxes, as past experience
and results from this shipment prove conclusively and results from this shipment prove conclusively
that the class enumerated as "various" do not pay when shipped in boxes. The cost of boxes, packing material, paper, etc., brings the cost of the bare package up to 22 c . per box, not including
abor. The unprecedented price the Kings fetchlabor. The unprecedented price the Kings fetchand the keenness the various buyers showed in their
efforts to secure all they could of this variety to efforts to secure all they could of this variety to meet the requirements of the Christmas trade, go
to prove that only the very best varieties, most to prove that only the very best varieties, most
carefully put up, should be sent in boxes. If shippers adopt the above-mentioned method, and
packing the ordinary varieties in barrels, leaving packing the ordinary varieties in barrels, leaving
the XX at home for evaporating purposes, they will establish their brand in the markets of the Old Country, which the consumer there will eagerly look for, besides getting gratifying returns for package high-grade and attractive. ORCHARDIST

## APIARY.

## Begiming Beekeeping: How Much Nill it Cost?

is not necssary to have a very elabora or expensive outfit of hives and fixtures to star way to start) It is important when beginning to begin properly, with a good movable frame hive, and other things as they should be. The man who thinks he can keep bees just as well and profitably the way his grandfather did it, had better not try to keep them at all. Bees in a box-hive are like a chipmunk in a stone fenceyou know where he is all right, but that's about as far as your knowledge or control of him goes. Let us see what the beginner in beekeeping him. First, a colony of bees in a hood hive will cost in the spring about $\$ 5.00$ or perhaps little more. Buy them from a reliable man what lives at a considerable distance, for a beekeepe never wants to sell bees to a near neighbor; and quite naturally so, for it is something like invit-
ing said neighbor to turn some stock loose in his pasture, and not many farmers will do that Here it may be remarked that, if many bees are profitable to neighborhood, it will seldom prove empty business. It is necessary to have an the bees may be expected to swarm at least once This, with a top story for the swarm to store
honey in, will cost about $\$ 2.00$; a top story for the parent colony, 75 cents ; enough comb foun dation to fill the frackes in these hives will cost about $\$ 1.50$, if full sheets are used, as they should
be. A small extractor may be bought for $\$ 5.50$ and this, with a honey-knife and a smoker, each costing about $\$ 1.00$, will get things going. Th total cost of this outfit, $\$ 16.75$, may look ver dollars should start him going in the bee business But, with a good season, and careful management he can get enough honey to pay most of the ini tial expense, and if he then wants to sell out, h
has an outfit that is worth something. In ning for comb honey, the first expense would be a few dollars less ; but after that it would be
greater, and the first receipts, as well as the re ceipts for three or four years, would almost sure ence to make a success of producing comb honey than extracted honey, and only an expert can manage the bees so as to secure anything like as The first hives should be bought lar manufacturer of bee supplieg, and, for a be ginner, it might be advisable to have one of them y how the pieces should go together . Aust exact learns how to handle the hives and frames, and realizes the importance of absolute accuracy and informity, he may make the hives himself, if he The Langstroth hive is generally recognized the standard, and is a safe hive for any beginner ny of its parts, so that patent on this hive or any of its parts, so that anyone is at liberty to
make it if he wants to do so. Bees in this style
of hive will sell from

## POULTRY

## Rearing Turkeys.

This is the first of a series of three articles on
the subject, by W. J. Bell, Simcoe Co., Ont., an expert, practical turkey-raiser, who has lectured on turkeys the past four years to the p
class at the Ontario Agricultural College.
Turkeys forage for more of their food than a

$$
\begin{aligned}
& \text { Turkeys forage for more of their food than any } \\
& \text { other fowl, and the brilk of what they consume is abso- }
\end{aligned}
$$

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\text { lutely waste producte, or, worse, a positive injury } t
$$

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\begin{aligned}
& \text { crops, such to grasshoppers, crickets, bugs and weed } \\
& \text { seeds. On this account there is no cheaper meat pro- } \\
& \text { ond }
\end{aligned}
$$

$$
\begin{aligned}
& \text { seeds. On this account there is no cheaper meat pro- } \\
& \text { duced, and yet turkey meat, when placod upon the mar- } \\
& \text { ket. usuaily }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ket, usually commenandieat, the highest price. For this } \\
& \text { reason turkeye are a very proftable crop for those who }
\end{aligned}
$$ are succosstul in railsing them.

and

## lodation.

The first requisite to success in rearing them yoar not really important, but I should hasita of the soil is ing them in even a moderate flock on land inclined be wet. Wet of itself is not so very fatal to young
turkeys, but wet and cold combined most certainly arg I consider gravelly land with a running stream the birds should be reared in one flock. For these firty Of course, I am aware that hall thls amount of rang would carry the above number of birds in many sea
sons, but for those who intend to stay in the business sons, but for those who intend to stay in the busines
year after year, with a certainty of raising not less tha forty choice birds, I should say by all means have th hundred acres. By the large number of questions have been asked through the malls the past season o average turkey fock is not nearly so healthy as forme ly. I attribute this condition largely to the increase number of turkeys and other fowl that it is being ai
tempted to rafse in the one flock or upon the sam tempted to raise in the one flock or upon the sam
premises. In the report of the Live-stock Association for 1904, Mr. Robert Miller, in an article on shee breeding, says: "I have a farm of 140 acres that well adapted for sheep, but not for a heavy stock
sheep. I can scarcely grow lambe on that farm sheep. I can scarcely grow lambs on that farm now
because there have been thousands of sheep on it fro year to year for a good many years, and it has now
got to that conditlon that it is so filled with a certain poison that apparently comes from sheep, that young and I have to or eight months old won't thrive therc farm, and IF I HAD KEPT JUST A REASONABLE NUMBER OF SHEEP THERE TT WOULD NEVER
HAVE GOT TO THAT CONDITION." In HAVE GOT TO THAT CONDITION." In my judgment
this applies exactly to ralsing turkeys, and so sure as this appies exactly to ralsing turkeys, and so sure a
you double and treble the number of fowl on your you double and treble the number of owl on you
premises, just so sure will you double and treble th
chance of killing the young turkeys. The nature of the chance of killing the young turkeys. The nature of the being good, also meadow stubble, which is generally cut belng good, also meadow stubble, which is generally cu
before the young start roaming much. However. notice they like a change, and for this reason a grain
and hay farm presents the ideal range after the crop is taken off.

BUILDINGS.
In the matter of buildings, they are easily supplied would say that they are healthier and stronger if al Upon no conditlon should they be compelled to roost with hens in a warm henhouse. I get mine to roost
during the winter months in a cattle shed onen to the during the winter months in a cattle shed open to the
east, and single boarded on the other three silles. The modern farm barn plays no small part in the number of
aickly turkeys we now hear about. In bygone years the farm buildings were usually in the form of an L, which
protected them from the cold winds, and where they protected them from the cold winds, and where they
could scratch all day in the straw, which was usually
here in abundance. Contrast this with the largesingle there in abundance. Contrast this with the large single
building now in use, with scarcely so much as a straw
allowed outside. The latter are not conductive to healthy breeding stoc breeding stock.
My experience is that the age of the breeders is not
mportant, but good, strong, healthy, well-matured
important, but good, strong, healthy, well-matured fo
males, of medfum size, mated to a large, long, Hely
male. will prove the most prolific mating, and on an
average it will require five females to make sure of the fitty poults. These breeders should only be in moderate fat towards spring, all grain should be withheld from them at this time. The male, however, should have
one good feed of oats or wheat each day. In selecting breeders, give the preference to those dhat are long in prominent breasthone when dressed as the short, deep bodied ones. With reference to the breeding stock do not see the necessity of changing the male season, as is so generally practiced. The improssion prevails that so-called inbreeding, reduces the ri
the birds. Ti selected my best birds for many in the beginning of $m y$ turkey-raising experle
bred them together, frrespective of relationship bred them together, Irrespective of relatlonship
by doing so the size was increased instead of
but that defor by doing so the size was increased instead of
but that deformities, such as crooked toes,
now practice occasionally buying a semalo from BC
good flock, and mating her to one of my best mal From the produce I take the best female, and mate following season to her sire. I now have them then courths the blood of the sire, and 1 will select the bc sufficient fresh blood to bring into my flock in order hold their size, color and shape. All this dread of mens in a flock for breeders. There are probably tho who will question that it requires five females to sure fifty poults, because they can break up the from hatching after laying have her lay a second lot. I do not practice this and am not going to advise anyone to follow it, as much prefer a turkey to hatch and rear the young ally worth two late-hatched ones. Besides, the latt are always the first to contract disease, and in man
cases will introduce it into a flock that otherwise woul remain healthy. By "early-hatched," I moean hatchen
about first of June, and by "late hatched," those the about first of June, and by "late hatched," those that D is early enough in this section to hit favorable weather but in Southern Ontario, probably one week earlier
would be better. This hatching time is more important than many will think, as no amount of feeding or care

THE FARM BULLETIN
Eben W. Gowan, Norfolk Co., Ont.: "I recelved
the premium knife some time ago, and am much pleased ith it. Thanking you, I remai
A solution of dried casein prepared by the use of
acid is said to be an excellent cement for wood china and anything that will stand the coagulation, china ature.
If Subscriber, Norfolk Co., Ont., who sent us three questions about stallions, will forward his name and
address, we will, if he is on our subscription list, at end to his inquiries.
who sent an enquiry and Friend," of York County name and address, his question will be answered, if his name is on our subscription list.
Mr. R. L. Borden, M.P., Leader of the Opposition letter to several Deputy Ministers, explaining that he is asking members of the Opposition to send him an intimation as to What information they may desire during sceuring of such information, and thus shorten the session. Evidently Mr. Borden feels that he should do

A Montreal despatch stated that a consultation was Dominion Minister of Marine and Fisheries, by repre-
sentative cattle shippers and steamshin siewtive cattle shippers and steamship agents, with a
vieciding on some means to prevent ange engagement of men to take care of cattle being trans-
ported across the ocean. Affidavis tary Robross of the ocean. Affidavits produced by Secremany men had been badly treated by proved that agencies, which had practically been conducting a crimping business. As a result of the meeting, shippers and
teamship men will consider the

The Kingsville Percheron Sale
$\qquad$ stallions, mares and geldings belonging to Messrs. I. A. autended, there being upwards of 500 present, including buyers from a distance of over 400 miles, who were de-
lighted with the quality and character and availed themelves of what the Messrs. Wigle say
were bargains, considering the class of stock, as they
claim they claim there were mares in the class of stock, as they
1,800 lbs. On the what welghed over On the whole, however, they call the sele
a success. Mr. Wm. Prosser, of Leamington, was the
auctioneer, and proved himself an exceedingly capable
salesman. The average price for the 22 head sold, old
and young, was $\$ 460$ Following is the Takon, stallion, 4 years: Gosfield is the list of sales


0

Dalry Instruction in Onfario, 1906
The ontarto Department of Agrtculture and the in and Westorn Dairymen's Association are again creameries periodically throughout the season, from May till Ooctober, Inciustive, for the purpose of assisting wall ers in lmproving their methods, giving advice, as
 Tor the season. This amount represents about half the
actual cost to the Department. The Instructors, in actual
addition to giving instruction to the makers, will devote addititon to giving instruction to the makers, will devote
some attention to giving advico to formers as to the
 best metiod or will be supplied with leannets, giving the
Each instructor
most approved methods of caring for milk, and will hive most approved methods of caring for milk, and will hive
pleasure in leaving one with each producer as visted, pleasure in leaving one with each producer as isted,
and a fow extra copies will be supplied to ach maker. and is particulariy desired that new factories or factories which are operating under a new name, inform the
Department of Agriculture, Toronto, of the name of tho
we mould factory, together with list inaw the attention of your pleased to the work which is beling done to better the position of dairying in the Province. We would be giad
to have factories in Western ontario apply, at an early to have Pactories in Westorn ontario apply, at an ean
date, to © . H. Berr, London, end those in Eastern Ontario to G. G. Publow, KIngaton.
abridged copy of circular letter. Dear Sir,-At the recent annual conventions of the
tairymen's Associations, the work of dairy instruction as carried on during the past year was commended, and
reaolutions were passed, asking that a system of saniresolutions were pased, asking that a sastem of sani-
tary inspection of cheoese and butter factories be protary inspection order to make the work of instrution
vided for. In or mater and the proposed work of sanitary inspection more thorough, It is desired that as many factories as possible
be included in the syndicates to bo formed for the combe included in the sydices
ing season's instruction work. The Department, as you
The
 work of instruction, and are anxious to mal.
effective as possible during the coming season.
The fee for the coming season will be the same as dreess not later than Sopt. 15th. Cheques and post-ofice dressen
orders must be made payable to the order of the Treasurer of Ontarlo," not to my order.
Even though this work has been carried on through-
out the Province for several seasons, there has been a misapprehenonon in some quarters as to the dutles
the instructors.
First and toremost, their duty is to the instructors. First and arreker and propritotors as to proper equipment, methods in manuracture, carar of
cheese, etc., but also to call upon the individual prochesese and advise with him as to the proper care of
ducer and ducer and the farm, to discuss sanitary conditions about
milk on the plate for
 Director of Dairy Instruction
Parllament Bullding
Have Asked for Sanitary Inspection. On March 6th, a Joint deputation, representing the
Castern and Western Ontario Dairymen's Associations Eastern and Western Muthro Datr, Provincial Minister o
waited on Hon. Nelson Monteitho Agriculture, to ask for the appointment of inspectorn
to inspect and asperve
supervise
Ontario che chese tactories creamertes and dairier. The Minister, in reply, conced
cd that the deputation had made out a atrong case hut reminded his inern keep them going. They must start these things and keep them going. Meney sent out
see, too, that the law conterred on the men the full ower to carry out the duties assigned them. As
they considered two men might be suffcient to start

 that inspection of cheese factories and creameries would
be all that could be done this eeason. Later the soope
beter of the inspectors" dutes mitght be extended to incluad
some supervision of the farms of factory and creamery

## Western Grain Output.

- 

 heavy increase in the grain output of the West. The
total grain receipts at Fort Willam and Port Arthur 2otal grain receipts at Fort
were $42,312,58$ bushels ayainst $26,292,244$ for tha
same period of the year before. The reeelpts of wheat same period of the year before. The recelpts
alone at the two ports for the
nat year :23. and for the previous perlod $28,881,88,794,823$ bush els, as agannot $18,60,109$ for the corresponding six
monthe of last year. There are in store at the two
et month of last year. There are in store at the two
ports $8,421,875$ bushels of wheat, asganst $5,505,993$ a the same time last year.

Another Cow-testing Association.



## The Sugar Season.

: Sap's running." How the discovery electrifies th plodding through the snow in the woods, distributing huckets, tapping trees and then gathering the sap and
hoiling it over the arch in the sugar house ; or, if he is so unfortunate as to have an up-to-date father, in the modern evaporator, where it runs from one compart
ment to another, until at the last one the boilling poin of 220 degrees F . indicates that it is sumiciently dense to be drawn off as syrup. There isn't so much fun in
the business as there used to be; the woods are thinner and there are not many that have the sugar shanty so and there are not many that have the sugar shanty so
well screened that you can't see, daylight from it
through the trees. This is ino bad, but, fortunately through the trees. This is too bad, but, fortunately, the modern boy doesn't realize what he is missing
Time was when the writer considered that any bo whose father's farm did not have a good bush with maple trees to tap in spring, and with a nut crop to
harvest in the pleasures of country life. Even yet the foeling liniger that making maple syrup in a good, dense, thrifty bush " where you can't see out," is about the sweetest, un Every smudgy known to the heart of man or boy extra trip for a tub of sap an added zest, every evening spent boiling in the sugar shanty, making the sap sputter and hop, throwing off clouds of fragrant steain, a dream of biss ; every gallon of the pure amber furd
like a harvest of yellow gold ore. Yet some people think syrup-making is a slavish job 1 No wonder ther are people who made syrup every spring but three or four since he was big enough to toddle about the arch, and never has he seen the buckets gathered without a pang of regret that
there could be no more use for them for ten or eleven
months.
But if there is less fun there is still money in the business, where it is carried on for proft. Labor-3aving has been reduced to a fine art in some instances. Down
in Clinton Township. County of Lincoln, along the edge of the limestone plateau, which drops abruptly away to the north towards Lake Ontario, there are oome magnificent hard-maple bushes growing, apparently right
on the rock, with nothlng to feed on but a little leal on the rock, with nothing to feed on but a
mold and what silt there is in the crevices of the mold and what silt there is in the crovices
weather-beaten rocks. The sap starts early here, some bushes having been tapped as early as February. There is one bush of this kind on the farm of Andrewt maples,
son, which now contains hardly any trees hut men son, which now contains hardly any trees hut maples,
and where over 1,400 are tapped every year. Tti uplles


The Modern Sugar House - Too Much Daylight Arourd this Shonty.
and covered tin buckets are used, that the sap
may be kept perfectly pure. It is gathered with an ordinary upright draw tub on a sleigh, hauled to a point "on the mountaln" just above the sugar house, and here run off through a rubber hose into a receliving
vat, thence through an iron pipe thirty or iorty rods vat, thence through an iron pipe thirty or iorty rode
down "the mountain "side to a number of elevated
vats just outside the sugar house, which building is be vats just outside the sugar house, which building is be
tween 30 and 50 feet lower than the bush, and is withineen 30 and 50 feet lower than the large vats outside it is drawn off by a tap. into Champion evaporator, where it runs by a siphon aystom from one compartment to another, till it is tapped of
as syrup, being then run through a felt strainer to re as syrup, being trectpitate. The sap is not handled from move the lime procipitate.
the time it is dumped into the draw tub till it le put up in gallon tin cans and labelled for market. Th make runs in the neighborhood of 200 gallons of syru
year, all disposed of to private customers. a year, all disposed of bush is dying, for it is closely
Unfortunately, the bus pastured, and the absence of undergrowth gives the win a chance to sweep through and blow out the leaves, so that the leaf mold is decreasing, and the treess a pity to see such a magnificent protection sacrificed, espectally a see such a magnificent protection sacrinced,
the land is of doubtiul value for other purposes, bu
this case lis only an lindanco of thiousainds, where neen tiful woonkind, thit shiotid bo a source of perennial proft, comifort airid pleadure, is being sacre
cow's mouth. cow's mouth.
A few dircetion for the thexpertenced may not be
amis. Don't tap too early : while the earlier the sap runs the better the quality, still a coll cold, windy weather dries up the trees, and tidy weather is anon's run of sap is reducec. is a thaw ave ary sight or bo. The nightiy frost prolong the fow of sap and increase the volume obtatned. Aver the first run is over, and another sceme the treshoned by
the sples may be drewn and the trees fin the sples may in dreases the fow and improves the quality of the kap. Tha spies are sdviled, finn one buckets with covers, made of a aheet of thr, with one corner dog-ared and thele cut in the through carotilly the spile is passed. The sap cann Rain water dripligg
protected, or too often gathere. Ral from the branches above colors it, gnd reducea the
crystallizing guality of the syrup which is ditadyancrystallizing quality of the gruph which, Ieavep and Mits tage if it, is degired, to make gugar, The sap should be go thered promptly and boiled in not too large batches,
 like that of water. Indeed, we have seen whe melted
 women are suspicious of the Simon-purs article, put, it one works up a reguler private trate ne calored of tainted writh the soc-called " genutne maple" Aevor. It uised to with the so-called " genutno maple" gevor. Eot ued io and brick arch, to eleanse the syrup bofores it E5ot 20
 milk and eggs. thme before ifinishing of the pure Ilquit syrup be poured ofl and the stsetthingen sellected tors a sugaring off. Standard elyrup welghe 18 poundin
ounces to the gallon. if lighter, it will ferment, il ounces to the gallon if if lighter, it will
heavier, it will clystailye.
her Eestern Onvavio-Iraips Assaciationot About forty delegateis, repredenthig twenty-tour migr
cultural societies, attended the' annual meeting oo the Eastern ontafio Falrs Assotlation, held oin Oittwa on Mareh Tite. The meting yas of tusinesslike olharecter,
but chitedy educetional in its purposie. There wais no but chitefy educational th its purpose. There was no
meition of any probibility of atie Assotefloh aliscon-
 tinuing its work as an organizationt two sessions. In His obentig adirear he
 clation should belap
ciafoted
pid pelofnted to asisis Fairs in the compila Clitario elrcuilt. Later 5il in the armeeting thit (4) Withe Seeretary: cers re election of omi cers reguited as tol-
lows: president. Fiel d. Brockithe Frrst Vice President ${ }^{\text {B }}$
Mosher, Merrickile Second Vice-Prosidgnt John Brown. Beach
burg; Secre burg; Secretary
Treal, B. B. Faith Ottawa. Directors
B. C. Hughes, Pre
 leek Hill ; W. K. Fa
linger, Morrisburg
$M$, Bass, Newboro. M. Bass, Hoginge. Shaw
ville: W. W. Mc Naughton, Lancastor
J. G. Harknesp. Oorn gall. Harknespa griculy one resolution was passed It was that all agricultural societies should be provided by/ the Governuse by municipalitiee. The discussion and vote ton thie question was unanimously favorable, Mi. B. Cowan, Superintendent of Fairs, asked the opinion of the meeting as to whether secretaries should be lappointed dianually, or elected to serve during the pleasure of th was put for political reasons. Mr. Oowan sitid helhad never heard that oblection urged before at any agricultural meeting. The president and others spoke stronly fare of the country at heart did not constder politics in the matter at all. A vote on the question showed the In a paper on The Dutiee of a Secretary," Mr. W. L. Smalifeld, of Renfrew, explained a very complete and labor-saving system of bookkeeping for agricultural (eo-
cieties. Ho sald the secretary's duties were both secretarial and manageriel. He had to look after probable new exhibitors and what their exhlbits were likely to
be, keep in touch with all the adopt labor-saving plans, and keep posted pubncty, departures and what others were doing. "The Duties of Directors ": whas dealt with by John Mclanghilin. of
ont

Roaborouch Townahlp Agricultural Sociaty
 conesistent, but oud that the two positions were not incone stent, but a director on exhibtion day should con-
Ano the attontion entirely to his public dutien as direc.
cor, It ahould be mentioned that the secretary was putged to confer with the Superintendent of Fatrs, wit

 thies per day which had been the customary allo

 conitituted anabroct Attraction' ${ }^{\text {" }}$ " Ho said that What

 Chome or men only" were particularly objectionable
Camee of chance should be put off the grounds.

 no edicational no place for freaks of nature that had And the timo hionored balloone acrobatie buthibltions
whole Whole, that the larger pait of the outlay of ove the ngricultural interests.
Festern Live-stock ond Poultry Show he Eastern Ontario enivestie vorkers in and shion with at Outwa, March 5th to toth, foel quite proud of the successs or the exhbition, and they have very good rea.
sons to

CATTLL
an the cattle clasese, as in poultry, greater numbers,
as wer wis greater excellence, prevalled than at any
fortior winter Fatr held In ottawa. The veteran fat
stock ahowmen, Jas. Leask, Greenbank, and Jas. Rennio
Son , Brackweter, were present, as well as Messra. Armontrong and Bater, were present, as well as Mesirg.
 prior ; R. C. Sparrow ${ }^{\text {\& }}$ Son, Antrim, and others in ferent classee of cattic. As usual g good :showing in the difthe grades were of Shorthorn Mood and wilt portion of
 Hike an exhibit of that breed, not mithstanding that in one barn a handsome bunch of Polled Angus steers were
stalled.
While Mr. Robertson secured a malority of the 1st awardis in the Shorthorn class, hennie $\&$ Son, as well
as Hedi Co., carried awny red ribbons, and ArmIn all the sections the arrat on heiler under two years, out. Armstrong, Black $\&$ Co. made the exhibit of
Poliled Polled Angus, and, while their entries were not in high
Hesh, they were smooth in the Grede classs stronger compoitition breading. than in any of the other sections. Jas. Leask hald nicely-leehed
Armatrong two-year-old steer for first prize, Armstrong \& Co. showed one larger, but pot having
quite as good quality of fesh, coming second hat atrong \& Co. had a very smooth, sort-hatrod second Armin yearling class. They were third and firth to this this section allo, while Loask had a very smoth, nithe niy
lined well-covered steer for second, and a pit fourth L
haps, the bestst-preerize in theer under one yoer was, per-
 depth end thickrezss an heart the girthe time sheread anding and profts to the which Indicates strong constitution to Leask. Armstrong \& Co: had third prize also wen The grade cows over three years a Iot as in some of the other sectlons, which geom
usually the case. It would possibly be better if those
over tour years wo-year-old hellers was much better, The class for good entries. But it was in the bellers under two yenr hat the keenest competition came into the ring.
Messra. Rennie showed a well-grown heiler
 ouch forced her to take second place harshness of younger heffer, which, although not carrying soonkuch
thickness of fesh, had a covering of remarkably even feah all over the back and ribs.
been mado in this classs, no less than stex trios comin
into the ring: and they were elghtiten good steers, al-
though some of them were not guite mell to class ns good exporters ; quite well enough finished
rood uanity good quality. The closest competition came toween
the frrt-prize lot of Mr. Leeask and those of Messens. the inrst-prize 10 of Mr. Leask and those of Messrs.
Renne. The first lot were nearer the type sought by
 second-prize lot, and yet the latter had wonderndully wellpadded backs, and were evidently hach fatter than
those placed Arst. SHEEP
 ring than uval, which may be accounted for by the great revilag interest taken in the business. Cots.
wolds were Bhown by Messrs. Lyons, of Norval. Wrigh
 Frets. L. Parkinson, Framosa, and Armstrong \& Co lambe. A. W. Smith, Maple Lodge, and A. G. H. Luxton, Milton, had a nitee exibibtof of Lieicesters, Mr pear to Whineraran at ohicago boing in the 1 ot, and ap
prizes
woll from W. E. Wright gens. Oxfords had a good showing March, and Armstrong \& © Co., Wright winning ten firat Toutrer Bros., Paris, and J. Jackson, Abingdon, showe those beautitul quality sheep, Including Arraiteprize cringer at Cuicago. Teller Bros. got the maiority of firsto. South werch, ahown by Harding, Thorndale; Richardson, lembs were those winning at nearly all th. Harding' large shows this season, and were an extra good lou wining all grists season, The Hamperire and extra good lot, was perhaps as laige as any in the show, exceptings,
possiby, the Loicoater. J . Bowman, Guolph, had frat prize yearling wether, and Teller Bros. secured all other Arsta. A large exhbith of grates and croseses was pros
swine.
The swine classes were generally well fillod, an
round the pens was indicated that now taken in thls was indicated the very general interest many proftable salees wero made.
Berkshires were shown in
Norval, Ontires .ore of excown in good form by Mr. Lyons,
 ford, and Jas. Featherston, Streetsvilile, Brethour, Bur
place of of hon the place of honor in the Yorkshire class, and selloom is
competition much keener, nor a competrition much keener, nor a better exhibit, Bethour Lyn, Ont., divided the honors in Tamworthe MeNish, export bacon hoge made ono of the finest exhibits that
has been seen. has been seen. Bretheor was frst for three pure-breds.
and and Featherston for three grades. Featherston won
firat for bartow 6 months and under 9 , Brethour barrow under 0 months. In under ${ }^{\text {an }}$, Brethour fo
Feathersto Featherston won frrst in the bacon hogs, both in pur
bred and grade sections brod and grade sections, with Brethour second. Bre
thours first-prize pen alive, however The whole dresed-carcass exhibit was wery not kell
sented, and show sented, and showed care and tasto in dressing, tooth
some-looking carcasses in baco being shown in prasses in bacon hogs, cattle and sheep
the best iever prosion, while the dressed poultry was the best ever shown in ottawa.
nomenal ahowings in producten ivive, and, whill no phe
e whole was very instructive. such Nover has there been at a Winter Fair in Ottawa such good attendance at the lectures as was present
this year, and the close attention and intelligent inter
eat est shown all through the series indicated that good $n$
sults
muat
 Pouitry.
No part of the Eastern Ontario Live-stock and Poultry
Show is more Indicative of growth ind poultry department. The entries and progress than the ver 1,570 previous year. The total of tickets iscued the exhibits nearly 800 more than 1905. The bulk a of suffclent iliey, but Western breeders thought the shov In this respeot London came loyally forward with 200 entries. About 120 birds were sent from Milto in charge of Mr. F. Wales, a large number of these be
ing his own, while others were sent by Ter E. G. H. Luxton. The poultry den


 said one, ". but the quality is up to the standard seme The Barred Rocks were a teature of the show
These with the White Wyandottes and White Leghorns,
constituted the tectate
 and 21 cockerels in the prize classes.
entries in the White Wyantote selling


Greig President Winnipeg A despatch Prom Winnipeg announces the election to
the presidency of the Winnipeg Industrial Exhiotion
Association of Mr. Geo sioner for Manitoba, and former editor ivestock Comnis
 intimate accuaintanco with the needs and rand andrement or live-stock exhibitors and of theads and requirements
generally, is, eminently qualifed forming community Important position to which he has then duties of
Im understand the managership has been elected.

Experiments with Ferm Crope The members of the Ontario Agricultural and
perimental Union are pleased to state that for they are prepared to distribute into every townsh Ontario material for experiments with fodder cr
roots, graine, grasses, clovers and erth roots, graine, grasses, clovers and fertilizera. Upw
of 1,600 varieties of farm cropa have the Experimental Department of the Ontario Agri tural Colloge, Guelph, for at least ive years in suc
eion. These consist of nearly Thiose consist of nearly all the Canadian B
and several hundred now varities, some of which
and done exceedingly well in the carefully-conducted exp of charge for co-operative experiments throughout ario. The following is the list of co-operative expe
ments in agriculture for 1006

| Expor |  |  |  |
| :---: | :---: | :---: | :---: |
| Three varieties of oats |  |  |  |
| 2 (a) Three varietles of six-rowed |  |  |  |
| 8 8 Two varieries of of hulless barley be. |  |  |  |
|  |  |  |  |

Two
Emmer and of field peas
8 Two varieties of Soy, Sofe or Japanese bean 9 Three varieties of husking
10 Three varleties of mangolds

| 1 Two varieties of sugar beets for feeding purposes |
| :--- | 13 Kohl-rabi, and two varieties of fall turnips 14 Parsnips, and two varietics of carrots 16 Three varieties of millet 18 Grass peas and two varietie

${ }_{21}$ Three varietlies of clover
${ }_{22}$ Sainfoin, lucerne and burne
${ }_{23}^{23}$ Three varieties of geld beasses
24 Three varieties of sweet corn
26
Fertilizers with corn
27
${ }_{28}^{27}$ Sowing mangels on the level and in drill 28 Two varieties of early, medium, or late potatoes 29 Three grain mixtures, for grain production...........
30

The size of each plot in each of the first twenty-se ve experiments, and in Nos. 29 and 30 , is to be two rod
long by one rod wide ; and in No. 28, one rod square Each person in Ontario who wishes to join in the wor apply for the same. The material will for 1906, an the order in which the applications are received until the supply is exhausted. It might be well for each applicant to make a sccond choice, for fear the first
could not be granted.

The London Shire Show
At the annual London, England, Shire Horse Show, these were more select than usual, owving ent new, and
restricting the number of entries received. The quality.
therefore Several of the contests were interesting and exciting. especially in that for the whonors in the big stallion.
class, the final heads of the class being Messrs. For
shaw's ./ Premer haw's "Present King II.,'" a newcomer Messrs. For
Earl Egerton's " Tatton Friar." pion at the Royal Lancashire Show; and Lord RothChild's "Girton Charmer," last year's champion in Lonon. In the end, on the decision of the umpire, these
three splendid horses were placed in the three splendid horses were placed in the order in which
they are here mentioned. They all had their
Present King " Present Kine mentioned. They all had their admirers.
"gaine "Tatton Friar." won the championship, where pionship going to Eriar" stood reserve, the junior cherem-
Again, for mares. Mesurg's "Tatton Dray King." Again, for mares, Messrs, Forshaw secured the cham.
pionship with one fresh to the highest honors, in "S
sex Bluegown." vith Lord Rothschild's famous " Princess Beryl." Tell to Sir P. Albert Muntz's is . Dunsmore Fuchsia,"" and
it should be noted that the famous Dunsmore aire inners, with eighteen og his credit, the list of of sires of
Tross
Tockings Forest King "" coming next with nine

Col. McGillivray is President.
the Toronto Industrial, of the Newly elected directors of
Conadian Nation A spociation, hell March Exhibi
(iillaray , Lieut -Col
 4 intimate knowlectye of and experience as a directo "gricultural comernatity kenerally, and whose of the and for the pasiition, white his genial eminently qualifes
 electad of the whitition. Mr. W. K. George was class of the
George was
$G$ ooderham,

MARCH 15, 1906



## THE CANADIAN BANK OF COMMERCE

Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$ HEAD OFFICE, TORONTO
E E. WALKER, General Manager ALEX. LAIRD, Asst, Gen' Manger
BRANCHES THROUGHOUT CANADA, AND IN THE UNITED STATES AND ENGLAND a general banking business transacted FARMERS' BANKING
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3ANKING BY MAIL.- Deposits may be made or withdrawn by anail. Out-of-town accounts receive every attention.

ADVOCATE.


## 

 ant funratinn.
## F. A. and H. M. Literary

 Society.Owing to the fact that we are giving the leaders in the debate a chance of replying to the arguments advanced by the opposing sides, we
shall not be able to publish the de shall not be able to publish the de bate until next week.
the opportunity of urging , we seize the, opportunity of urging you once
more to try what you can do with more to try what you can do with
the "Dream of Fair Women ", topic If you haven't a '" Tennyson," topic. get one? The investment will why not one, and we shall certainly have some more topics based on his works so that the book may be of use to you again in the near future.
Don't be afraid of the present topic. You'ḷl not be able to write on it by one, or two, or perhaps three readings of the poem, but keep at it. It isn't the prize you may or may not win, that counts. We never even pretend that for a moment. The prize is only a little recognition of your interest-that is all. It is the real mental effort that is the main thing-the whole thing in all of these literary contests. You know you cannot exercise your brain in any power in all ways. Neither can you ing, to a certain extent, just, so much power of thinking things out.
To think out the whole meaning of the "Dream of Fair Women" may
not seem to you to be of much prac tical importance. But if you think
so you are mistaken. Studying out so you are mistaken. Studying out
this poem, studying out any poem this poem, studying out any poem
or any topic, and making a habit of doing such things, cannot fail to give you a mental grip on all other
things, a power of reasoning and balthings, a power of reasoning and bal
ancing absolutely necessary to every one who would develop himself to the uttermost, and be of the most use to himself and his environment. Be-
sides this, there is the pleasure that always comes of the study of literature, and the culture which is, to a considerable extent, the inevitable
outcome of it. We intend our F. A. \& H. M. Literary Society to be a real literary
society, and we want you to help us society, and we want you to help us
make it so. We shall introduce many literary topics, so you may as
well begin now, and find yourself developing along literary lines with the development of the Society. is not absolutely necessary for you to place the right name on the right woman in every instance. The main thing is to write a good essay on
the poem, then name the women, as they seem to you, as an incidental If you happen on all cortilly, why best with the topic, and be sur, you hest with the topic, and be sure you

## A Reply from Mr. Taylor.

 In view of the criticisms a recent letter of mine, on reading, has calle forth, and as fow others, seem dis posed to take up the cudgels on be behalf of solid literature in to fiction, while the champions fiction seem to be multiplying every hand, I have felt constrained to offer a reply, although I have n
desire to unduly monopolize space.
Perh
Perhaps, as Mr. Savage says, I did
rather sweopingly Cenaire rather sweepingly censure all fiction,
or perhaps it might be nearer the mark to say that 1 did not discriminate enough between good and bad
fiction. for it must he admitted that fiction, for it must be admitted that
fiction has, and does to-day fiction has, and doess to-day, exert a
very real and helpful infuence in very many ways, and yet for all that, speaking for myself, as I I did
in my former letter I lonsider in my former letter, I consider that
I have not the time to spend reading fiction. Some who have more time for reading may profitably choose a more promiscuous reading, and yet I
would express the opinion that even they would find it to their advan tage to be very discriminating and sparing in their reading of fiction. OThen, Mr. Harris takes up the most kinds of literature $I_{\text {I }}$ did $n d$ mention. In answer to that,
might say that in the compass o a four- or five-hundred-word article to discuss the whole range of litera are rather was my object to offer
a protest against the prevalent novel reading habit of to-day a habit. still believe, in spite of all that has been said in favor of it, we would do
well to resolutely keep in check Then, Mr. Patterson makes a for fiction, on the ground that it is a good medium to get young people will advance to more holid forms of literature. I must take issue with him there. Fiction and the more solid forms of literature are, to my
mind, so diametrically opposed to mind, so diametrically opposed to if the reading of fiction would ever
lead to the more solid forms of read lead to the more solid forms of read tion, but in may case the reading of fiction did not lead to other forms of
reading. (on the other hand,I believe that my ability to appreciate solid itcrature was weakened by my read the eating of spices and such condi ments tends to weaken the taste for wholesome food, and I believe it is
much the same in reading. Fiction may be compared to the seasoning extracts in our food, which, if we indulge in too freely, will destroy our
taste for more wholesome reading The way I advanced froms the read ing of fiction to more solid reading Was by resolutely making up my mind lutely making up my mind to read solid literature, and it was only by resolutely keeping at it that $I$ de veloped a taste for solid reading
Another thing that helped very much was a Reading Circle, which I at Lended, the discussions of which on very real interest to reading I I could scarcely comprehend alone.
Mr. Patterson, too, finds fault with Mr. Patterson, too, finds fault with
the list of books I recommended because it was too deep, and he choses,
very deep, viz., the " Life of Glad-
stone, stone." If he will take a second look over that list, I believe he will
find, as I have said, literature all the and, as I have said, literature all the ing reading, on which a start may be made, to literature that will require real mental effort to compre hend its meaning. J. D. TAYLOR.

## Charles Lamb.

A life chiefly of hardship, poverty
and self-sacrifice; the central figure these abstractions, central figure of with a slight figure, clad in solemn black, and "' dwindling away down
almost to 'irrmaterial Jewish face, clear-cut as a ; a and dark as that of a Moor; yet a countenance fitful, changeful, strangely sweet often, as ever indexed a
noble soul. Such is a flash of the personality which comes before one at the mention of Charles Lamb, a personality as unique as ever graced the pages of Fnglish biography.
His black hair curled crisply about an expanded forehead," writes his friend Talfourd, "his eyes, softly
brown, twinkled with varied expres-


Charles Lamb.
Sion, though the prevalent fieling was sad; and the nose slightly nostril, with the lower outline of the
face regularly oval face regularly oval, completed a head
which was finely placed on the shoul ders, and gave importance and ceuldignity to a diminutive and shadowy
stem. Who shall tenance, catch shall describe his counness, and fix it forever in words? 't
And the details of the life whit helped to develop this countenance
with its lights and its
 his biographers-Charles Lamb go born Feb. 10,1775 , in Crown Office
Row, the very heart of the great metropoli which he came 10 love meterwards with a devotion so unvarying as to
induce Wordsworth's not wholly do served criticism of him, "، scorner dethe fields." His father, "John Lamb was a clerk to Samuel, Salt, one of
the Benchers of the and fromers him, probably, Charles in herited the diminutive figure whic so impressed his contemporaries. DCh
lightful indeed lightful indeed is the picture which
the illustrious
the cognomen of "' Lovel," of thi
little man: "A quick little fellow with an eye ever upon Salt th phlegmatic, the absent-minded, who " by the mere trick of gravity," and who ""never dressed for a dinner party but he forgot his sword or some other necessary part of his
equipage," and so justified his claims
and knew this Lovel," superv Lamb. " " He was a man of an incorrigible and losing honesty. A good fellow with
all, and he ' would strike.' In the cause of the oppressed he never con-
sidered inequalitie sidered inequalities or calculated the
number of his opponents. was the liveliest little fellow breath ing, had a face as gay as Garrick's such sinall cabinet cribbage boards and took a hand at quadrille or bowls ter than facility; made punch betEngland ; had the merriestee in and conceits, and was altogether brimful of rogueries as you could
The earliest part of his life the future essayist spent chiefly in the
school "Christ's Hospital," which schol "Christ's Hospital," which with an education seldom attained by a lad of such tender age. He
had already read, as recorded by had already read, as recorded by
Talfourd, Virgil, Sallust, Terence
Lucian and V. Lucian and Xenophon, and had evinced "considerable skill in the
niceties of Latin composition," but was debarred from going on to the school were supposed to do) not presumably, for want of a religious
temperament which of certain waywardness, in spite deeply, but because of a stammer which clung to him all his life. "A stammering buffoon," he calls him
self in that pathetic, half-hopeless bit of introspection, "" New Year's Eve, "What you will; lay it on, and and whatever he may say may be,
limmitations of this school an shortcomings of the upper master, the rabid pedant," Boyer, who then it nust be at Flaccus's quibble m vultu. of Terence-thin jests which, at their first broaching, could A Raman muscle ". enough to move came unt Christ's Hospital, Lamb and his whole after which affectdestined there he formed friendships wel Tay, Motathy that with Sam-e In the study of thetaphysics and the

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THE FARMER'S ADVOCATE
or over thirty years, until finally during this time the best of his work was accomplished, under conditions, dered his light-heartedness a marvel. There was a streak of insanity in the family, and shortly after Charles' entrance to the India House "Cousin Bridget Elia" of whom he speaks so affectionately in his essays, ho stabbed her mother to the heart and seriously wounded her now in-
valid father before her insane strength could be mastered. Charles was present, and himself wrested the
knife from her hand. "God has preserved to me my senses," he wrote to. Coleridge, and, a little later, with a quietness that showed the invincibleness of the determination that had entered his soul, he wrote again,
announcing his decision to live henceforth for his father and his sister, a course from which he never once was forced to forego much that makes life sweet. Even before this he had fallen in love "with a "Hertfordshire girl, the "Anna," and fair-haired Alice of whom he been long since wedded to another ; but, by reason of his sister, and the taint he had had reason to fear in his regard. During the long years that fol-
lowed he lived with his sister, whose lowed he lived with his sister, whose
insanity only came upon her at ininsanity only came upon her at in-
tervals, moving from one dingy set of apartments to another, but revelling ever in books, and keep-
ing open house always for the ing open house always for the friends
who came flocking to hear him talk but who increased in numbers until at last they proved a serious hindrance to him, so that he was
obliged to flit further and further "to be rid of men
But during this time-for we must hasten-his works appeared, first a few poems, and those articles on
current subjects which appeared in the London papers and marked him as a new star in the firmament of humor and criticism; later, his two
plays-which were, as far as the stage was concerned, ignominous fail-ures-and the "Tales from Shakespeare," and other juvenile stories,
written in collaboration written in cohaboration with his
sister, and their first real source of literary revenue. After these came the inimitable " Essays of Elia
written for the London Magazine.

Of these essays we may say: Read
them once ; though you must recog nize at once the purity and beauty of their English, you may not be especially drawn to them. Read them uality begins to appear with such brilliancy that you wonder where, formerly, were your mental eyes.
Yet once again, and you have taken Lamb to your heart. You know him and see him, and the friends, relatives and acquaintances whom he has portrayed in his volume-the most
unique and most living portrait lery, perhaps, in existence. ... Read his life to the end, and when you
come to his pathetic record, in a last come to his pathetic record, in a last
loneliness, consequent upon the re
moval of his moval of his sister to the asylum to which she had so frequently to go, your heart aches for him, and you wish that you might have taken his
hand. "When I took leave of our friend at Charing Cross, 'twas heav unfeeling rain, and I had nowhere to go. Home have I none. What I can do, and do overdo, is to walk
but deadly long are the days. ... pity you for overwork, but I answer
you no work (he had retired from you no work (he had retired from
the India House) is worse. The mind preys on itself. . I I have killed an hour or two in this poor scrawl. am an sanguinary murderer of time, and would kill him inch-meal jusi
now. But the snake is vital." Brave soul, it was the only time he had ever Wholly faltered, and even now he rouses himself to add," "Well, I shall writ merrier anon." Soon afterward, in
the dull December days of 1834, few months after the death of Cole ridge, he sank quietly to rest, meet
ing bravely the death he had always ing bravely the death he had alway hated, serene in the consciousness of
leaving his sister as well provided
for as might be.
We have attempted no critical literary estimate of Lamb. We have man, often spoken of as "best loved among English men of letters," and suffice it to say, most of all, that,
in reading his essays, we best reach the man Lamb himself. We Though he has been called. "The Humorist," with an emphasis often on the "the," his humor is of a quality
so delicate that it never once pro vokes to laughter, though it often induces a smile, and we smile scarcely less at the naivete with which he
rambles away about himself with the most delightful egotism in the world, and with which he parades his relations, friends and acquaintances,
with all their little failings, yet ever
kindly, before a public interested in spite of itself, than at the felicitous turns of expression, the exquisit portrayal of characteristics which have made him an a

$$
\begin{aligned}
& \text { Just one point more, } \\
& \text { the " Essays of Elia, }
\end{aligned}
$$

the ". Essays of Elia," In readine guard, nevertheless, in one nust every statement as literal biography
With that perverseness mhating sionally made him act which occewhom hade hislimed, act before those "huffoon" which he described himto look upon him as a specimen of "d diluted insanity," he has occasion ally, and without apparent reason,
indulged in a bit of a hoax, as when he endows himself with the personality of Coleridge, in telling of his
experiences at Christ's Hospital experiences at Christ's Hospital
Yet, on the whole, the main part o Yet, on the whole, the main part o
Elia," as biography, may pass a face value. When you "pnow" Lamb, you may the more readily disthe by-play, and, beneath all, you will see his strong underlying love of humanity, after all the strongest
force in his nature. orce in his nature.
BRIGHT IDEAS FOR ENTERTATN-NG.-We are pleased to be able to an-
nounce to our readera that wo have made arrangements by which we coan supply a for Enturtaining." au a premium to all who send us in the neme of ONT NBW
SUBSCRIBER to "o The Farter SUBSCRIBER to "The Farmer's Advo cate and Home Magazine, We can also
supply the book for 60 c . cash. "Bright Ideas for Entertaining", does, not belie its name. It actually gives what it says, "bright ideas" for conducting all
sorts of house parties, garden partles,
et.
We are sure yous will be pleased

## zorts et . with it

This picture is one of kindred subjects often chosen by this artist, who is a requent exhbibitor at the Royal Acadomy,
the Royal Institute, and the Art Gallery of Liverpool, England. Evening hais settled down upon the ting hamlet on the
och shore. The kine know it an the chew the cud after their turn at milling time; the children have ceased theftr rompings, and are bing called "ben" to their
bedss, and Gaffer and Gammer are having beds, and Gafifr and Gammer are having
their last ". crack ". Ais they sit side by side upon the bench ritside their cottage drawn up on the the last boat will be sounds of labor with be huehed into the
stillness of night.
H. A. B.

News of the Day.


The French Ministry bas resioned following on a defeat in the resignember of Deputies. The defeat ensued on account of in debate over Church Ministry, coming just at the time of Mn important climast in the FraneoGerman eontest at Algeclras, may have an important bearing
outcome of the Conference:

A revolutionary movement against Venezuela is afoot, and the rains tionists are gathering on the Island of Trinidad. - .
Princess Ena of Battenberg, Who Will marry King Alfonso of Spain, lic Church, at San Sebastian, on lic Church,
March 7th.

It has been fearned that the lose of life during the recent cyclones on the Society Islands has been greatiy overestimated, although much de ported, especially from the Oity of

$$
2-20
$$

The Czar seems to be having : rather dimpult task in trying to autocratic authority, His latest announcement runs as follows : "The reforms promulgated October 30 th
are progressing without, deviation. While the rights accorded to the people remain unaltered, my auto cratic power will ever remain. as it
always has been."

The Chinese Government has de cided to instruct its ministers there is no cause lor uneasiness. The boycott of American goods will, how
ever, be prosecuted more vigorialy ever, be prosecuted more vigorously
than ever, and is said to be due to the efforts of an influential Chinaman King, whose family was subjected to much indignity last year by of
customs officer at Boston, and who became enraged at all Americais who consequence. There are still those who predict that troubles. are just

## Canadian

 return from Japan, will arrive in Toronto on April 21, having pre: Toronto he will be a guest at Gov ernment House, and will attend the Horse ShowA committee of Commercial Travel. lers has waited on members of the Ontario Govt., with the request that
the local-option law be amended so the local-option law be amended so as to compel municipalities to pro-
vide good accommodetion for the travelling public. Our local-option districts should see to lit that no such step as this is necessary.

Mr. Hamar Greenwood, the Cana York, Eng., has been member ior Parliamentary Secretary to WWinston churchill, Under-Secretary for the the then
Colonies.

4230

## 

Evening on Loch Duich

Thiccrenty olighe Woll. (A thesed of Primetron:) Come, obldren, libter to wite I toll, Fror my words are mose today Wea tho leoend brought away.

And when a bercien is hand to bearAnd sech bundens come to allThey tell the atory $I$ am telling now. Of the crosses on the wall. The a pearl of wisdom, gathered far Int the dime and ditstant pas Ao long at the world shan las. For never has been aince earth A man so happy or wile or grea
He might from the cross be free. He might from the cross be free. And by trouble sorely pressed; ;
of how, throug sorrow and main
At the end her soul was blest. At the end her soul was blest. For her early years were bright,
with a happy home, and with paren Kind,
A motherself their hearts' delight 1
sho wers tair in form and face :
A sunny creature, a joy to all.
For her sweet and winning grace.
Then early married to one she loved,
She had still been ehielded well;
For hor he labored, for her he though
And on her no burden tell
And on her no burden ferl.
She worked, indeed; but
Through the short and happy hours? To pluck the fruit from her orchard
Or to tend the garden flowers:
To sit and spin, and to sing the while
In her porch with roses gay; To spread the table with plenty piled, And to watch the children play.
Their home was a little nest of peace Twas a mile beyond the tow ,
In that sheltered valley, green with
Where the river murmurs down.
Where the river murmurs down. (Though a change must all expect), Till the blow, like lightning, on her fell, And her happy life was wrecked. ut who could have thought the Would die?
There were few so strong as he!
From his forest work they bore him home.
Struck dead by a falling tree.
petted child, and a wife belove
Till the strong, brave man was borne
away,
And she faced the world alone.
Alone, with a babe too young to speak,
And with other children five :
And with other children five:
Oh, why," she asked, "are the strong
removed
And the feeble left alive ?"
But where is the good of asking
When our helpers disappear
That question never
That question never was an
And it never will be, here.
Tharo was little time to sit and weep
She must rise, and bear the strain ;
Alone mhe stood, with the home to keep. Alone she stood, with the home to keep
And the children's bread to gain.
The beat of harself had The the of herself had gone with him;
She had no more faith nor truast; She could not bow to the Lond's decree The good Lord cares for a widow's need But on Him she did not call.
She labored hard, and she fought with She labored hard, and
fate, She tought her battle with fate, and - Tailed,

As many have failed before;
If against the thorns we push and press,
If against the thorns we push and press,
They wil only prick the more.
She could not bear with the children
And she called them rude and wild
Forgotting quite, in her sullen grie
Forgetting quite, in her sullen grief
That she had been once a child.
Yes, wild they were; and like all wild
things,
things,
They were
They were light, and swift, and strong; From the gay, unruly throng. They swam the river, they elimbed the
They were fall of life and play;
They were fall of life and play:
But oft, when their mother.
beard,

4$150)=1$ E0M Thlour 4 They hid trom her sight away They did not her sight away, her, and that And of the
And of that she ort complained Could the children's love be gaine Respect and honor we may command They will come at duty's call: But love, the beantiful thornless rose,
Grows wild, when it growa at And she wild, when it grows at all. Grew bitter and hard and sore, Till one day she cried in her despair "' I can bear my life no more : se
And pity my cruel fate
Oh, come, and in mercy take away
My burden, for 'tis too great ! And I feel my lifo decline ; Neive I think did the woman live
Who has borne a cross like mine
And soletinn it wes, and strange
For a silence deep around her fell,
And the place seemed all to change Whe stood in a sad and sombre room,
Whom ceiling down to floor, Along the wall and on every side,
There were crossee
There were crosses-nothing more,
There were crosses old, and crosses n
There were crosses large and small There were crosses large and small; stood
As the Master of them all.
Before His prestace her eyes dropped
And her wild complaining died
For she wild complaining died;
borne
Was greater than all beiide.
From among the many there,
Another crose, in
Another cross, in exchange for hers,
That she found too great to bear.
She looked for those that were least
And she quickly lifted one
But ohs, 'twas heavy, and pained her
Than her own had ever done
She laid it back with a trembling hand-
For heavier "tis than even mine cried For heavier "tis than even m
And a solemn voioe replied : But of youth she titto a maiden young. or the days to her are days of pain, And the night brings scant repose. helpless, suffering, useless thing Till death in pity will come one And her troubles end in peace. No never has walked the pleasant fields,
Nor has sat beneath the prees The hospital wall that shuts he Is the only world she sees.
She has no mother, she has no bome
And in strangers' hands she lien;
With none to caro for her while ahe
lives, for her when ahe dies."
N But weep for is the croes so
Lord, in the crons so small, my
And why does her heart not
'She counts it little," the answer came,
The widow blushed with a sudden shat
To her eyes the with a sudden shame
To her eyes the tears arose;
She dried them soon, and a
And another cross she chose.
And shem her hand against the wall,
And she let it there remain;
That cross shall never be mine,"
. ${ }^{\text {said, }}$ Though I take my own again
And whoug I take my own again :
For it seems to burn my hand hold
nd never, I think, was heart so strong,
That could such a weight withstand,
That could such a weight withhtand
And she weare it all unseen ;
With early sorrow her hair is white,
But she keeps a smille serene.
And sht thought him good and true
And long she trusted and long believed,
She knows that hls soul is stained
cows that his soul is stained with

## But the worst she still conceals

 Abuse and terror her sole reward, Sbe cannot Lord knows what she feels ! And her children bear his name ; ut sheguard
Their tmocent lives from shame
She trembles oft when his step she h
On a lonely winter night;
And she hides her frightened babes
From their cruel father's sight.
And she dares not even hope for death,
Though his hand might set her free :
"Twere well for her in the grave to rest
But where would the children be ?"
The widow shuddered, her face grew pale,
And she no more turned to look;
he reached her hand to the wall near
And a cross by chance she took.
Twas not so large as the first had bee
But it seemed a fearfulu weight !
And whose am I holding now? " she
asked,
For it did not look so great.
A mother's cross is the one $y$
So the voice in answer said
And she once had children six, like you;
But her children all are dead
She has all besides that earth can give
She has triende and wearth to spare,
And house and land-but she counts
For the children are not there.
For the children are not there.
Time passes slowly, and she grows old ;
But she may not yet depart
But she may not yet depart.
In lonely splendor she counts the years, With an empty, hungry heart.
sent,
And she tries her head to bow;
But six green mounds by the church-
Are the most she cares for now."
The widow thought of her own wild wrood thought of her own wild
bred And she felt a creeping chill:
And, ob Oh, give me back my cross I will keep and bear it still
Forgive mee, Lord " (and with that she
And For very shame she wept).
I know my sin, that I could not bow
Nor Thy holy will accept.
Oh, give me patience, for life is hard;
And the daily strength I need
And by Thy grace I will try to bear
The burden for
The burden for me decreed.
I'll change my ways with the children
now,
Though they give me added cares.
not, That the blame is mine, not lheire
She kept her word as the weeks went
And she fought with fate no more ;
That her with a patient, humble heart
The children wondered to see her change
So greatly in look and speech!
She met them She met them now with a speech!
And a gentle word for And soon they learned, from her altered
ways, What her words had vainly taught ;
Their love, that long she bad claimed in vain,
Came back to her all unsought.
feet,
were merry shouts and dancing When the mother came in sight;
There were little arms around thrown,
There were eyes with joy alight. There were eyes with joy alight. Sing the new year in again under the
With love for teacher, they learned help,
There was work for fingers small; to $\begin{aligned} & \text { Iast year you sang it as gladly. } \\ & \text { Her heart grew soft like the earth in } \\ & \text { New, new, new !" Is it then so new } \\ & \text { That you should carol so madly? }\end{aligned}$ sperirt, grew soft like the earth in
And sho And she thanked the Lord for all. "Love again, song again, nest again,
Her girls so pretty, her boys so brave, Noung again,"
And so hellation And so helpful all and kind ! bo brave,
She wondered often, and them shamered often, and thought with And hardly a daisy as yet, little friend,
Sce Chere is hardly a daisy For in their presence she oft turgut "Hete "gnin, here, here, here, happy
Her burden of want in Worgot her truuble
That she bad a

Park Hill, Feb, 4 , vorite page in our hone nour I would like to tell Mre. Hayward couch we enjoyed her lotter and the tributed in last week's Advocate thought the latter one, "J Jemue kno and understands," would be read and a preciated by many of the wives and deal life in our farm homes. Ours is living the simple life, and I think many are learning this lesson in our farm homes.
His ways are so wonderful, and we a
so slow to learn His ways are hest so slow to learn His ways are best... Jus in one of our weekly church verse "His Hands and Mine,"" and pinning them up beside me, whyle 1 was bus with the sewing, I committed them memory, and enclose them, hoping they
may be halpful to momeone:

- My hands were filled with many thing As any treasure of a king-
Silver, or gems, or gold.
The Master came and touched my hands
The scars were in
And at His feet my treasures sweet,
Fell shattered one by one.
I must have empty hands, said He,
- My hands were stained with marks of

Defled with dust of earth :
And I my work did ofttimes soil
And render little worth.
he Master came and touched my hande
And crimson were his own.
And when amazed, on mine I gazed,
And when amazed, on mine I gazed,
Lo, every stain, was gone.
must have cleansed hands.
s, said He,
解
My hands were growing feverish,
Cumbered with much Cumbered with much care,
Not folded oft in prayer.
The Master came and touched my hand
And might was in And calm and still to do His will Wers mine. The fever gone.
must have quiet hands, said Ho, I would work my works through the
My hands were strong in fancied But not in powar divine
Bold to take up tasks at length
That were not His,
The Master came and touched my bande. And power was in His own,
And mine since then have helpless been nd mine since then have helpless been
Save as His are laid thereon And it is only thus, said He,
That I can work my works through
Shortly after learning these verses I
Was laid aside in the a blessing these verses were and wha so often I thought of tasks $I$ wanted to
do that were I learned the lesson of being cond so
with doing with doing the daily task, etc., and in
leaving all to Him, knowing all is well.
Wishing your effort to help others to the better your effort to help others to the better
part, I am, A FARMER'S WFE

## The Throstle.

Summer is coming, summer ts coming,
I know it, I know it, I know it, git again, leaf again, life again, love Yes, my wild little poet.

Never u arophet so crazy !
And hardly a daisy as yet, little erlend
Sce tirye is hardly ©. Wurt ce utchidden, unbidden : Suct atl the ufuters are hidden.

Friends or Foes. An Ensliab notio pard a parki.
 Elizabeth and Caroline (Two hittle maidens amall),
Came down to spend a day or two With " Uncle at the Hall.
The sun had melted all the snow,
The grasis was green with showe The grass "was green with showers
It is the spring." said Caroline, " It is the spring," said Oaroline,
" Come out, and pick the fowers: But while they bent with shining eyes
Above the violets blue, Thbove the violets berue,
And close and closer drew.
0 Looked up, and ahrieked to see, No shelter but a tree !

I never thought," wept Caroline, They'll eat us," cried bilinwors ". All but our cloaks and hoods ! These queer young things, what
they be ${ }^{\circ}$." The deer thought in surprise. They smelt about, then on the palr
They fixed their great mild eyes. Just then came Uncle through the park,
The dreadfal monsters braved. The deer ran scampering down the The mai
The matidens both were saved.

## Victory in Defeat.


 sacrifces and by much patient work,
betty had not counted her own toils. boarding herself, walking home on Fri-
day nights, making one gown do for Sunday nights, making one gown do for sur-
days and week dayst tgnoring worn phoed days and weok dayse fonoring wori ghoed
and a hat of forgotten fashion-end how
the end was in aight, and Betty was the end was in qight, and Betty was
valedictorlan of her class. valedictorian of her elass.
It was the Saturday before graduation.

## About the House.

Tides in House-furnishing. It seams, sometimes, as though the great Hoodis that come creeping up
and up the shore by the yet greater saen and up the ahore by the yet greaterg sea,
and then fall back and back, leaving the and then fill back and back, leaving the
rocks glitering, and the starash htranded
on the and on the eand. In many other thinge
there is also a continuous ebb and flow the going on and on until a climax
reached, and then the retro or less gradual, to sometimes opposit pole, We see this tendency even In such
trive
 lastance, when aleeves grow blgger and
bigger, until they has bigger, until they have surpaseed al
bounda and or with the inevitable reactionge until at laat they are as diminutive as the
proportions of the arm beneath will per
 extemt, houso munnishshlng, and a ment myriad of other thinge; and, unwilling to attribut such variableness to fickleness in the hu
man mind, we feel tempted to cast
 fluctuations. The the bottom of all such wrong somewhere-a must be a right or
Which should
mediumWhich should endure.
That ther That there is such a happy medium,
there is itite cuase to doubt; and the
reason for the reason for the cause to doubt; and the
would seem to hinger ebt and flow would seem to hinger not on the nom-
existence of a medium, but on the fact medium pople do not recognize when the
menched, and go on and on, untiun is reached, and go on and on,
untreit hey have accomplished a positive
surfo of the surfeit of the accomplished a positive
goor:
thing that has semed as in the case of all sur Toorl. Then, ha in the case of all sur-
teits. Counes the reaction, sometimea with gradual retrogreesion, as though the
minn wore unwilling to glve tin to mien abe, very occasionally with a sudden
alump . prove rather unsettlingis.


Betty's essay was finshed and committed else would do. The baby-my deaf, rin

 anxiety as to why she had not had ot this hasty summons to the coming wedne
 surime that the parents meant to sur- She was thin much about the academy,
prise her teful that she had had a $\begin{array}{lll}\text { prise her by a visit to-morrow. } \\ \text { Suddenty sho caught fight of her father } & \text { course of or emergency lessons there, and }\end{array}$
 street. © She sprang to meet him, quick

 home with me. Three of the children at her post, and Betty wae was bach
are down with the measies. Mother is restiess, end could not trepp riry well
 Kood, but they are worn out, I can see. to the aoademy, and wondirimg thow the
Mother wants you, Seems as if nobody
chapel looked on


Sinafigig it hard to seo ho ofint tment had been right. Ones afternoon, however, the principal of the neatamy hooked et he noor of blue
tied roult.
He had in his hand a bluetied roll F
 would be glad to hear that rato Fiaher
read your casay at commencoment, and it had miore applatios thin any of the
others, The folis sour to line your
being at home with the baby. Atd; by others. The follis soomed to line your
beling at home with the baby. And, by
the wwy. the truitcose wait to know if

 write, The salary , would be ten dollitir Weetty and lice waid worthic seethg Juit thein. her subbject of that colindidence, thot that

Indin Boy's Trouble supe theor of oumberam, or ho th 2

$$
\begin{aligned}
& \text { "The boy walked well for his age, but }
\end{aligned}
$$ with him.

of fatigue.
"Tived i, wall I.
but I'd ar he answend, I I ain not tired, but $I$ 'd abe glad it I could only take of
my lege and carry them undert my
-4. We Know Botter. John Burroughe was talling about the
ingreased interest that the world now increased interest that the world now takes in nature and her workn and ways.
"A, mooderne girl from New York", he
sald, fitwould not be apt to soy, an I said, and auld not, girl say thirty yeare, ago, as sho
hoork
looked at a multituob of Jond: On, look at the tedpotes 1 And to think, that some day every one of these
horrid wrigeling thinge will bo beeutihorrid wriggling thinge will be beeuti-


MODERN LIVING-ROOM.-The hanging beams may be omitted in such a room as RN LIVING-ROOM
shis, if preferred.
strength of the whole in the lenst. Koep
a watch for this tyle-for Renalisance
 of the pubile bvilininge thit youmpg pome you whll know what we mean. .t. And tion, untilnalithough followed ormamentation, until-although many of the con-
structions were very beautifti-the thing was often overdone. Renaisi-tince furniture, to come right down to our topie. work, permisuible enough when it repro. sented the hand work of artists in dosign, but costemptible when, as was inevitably the case, cheap imitation of the
style wae resorted to. Then it wat that the reaction took place. Eastlek he he

 designs became the rage and the over decorated " imitation". Renaissance
tables, pedeteads and chairs became aubfocters for the secondthand and chairs bec Stnce those daye of nimplicity, the tide has agrain been ori the up-gradid. more has the passion for decoration re the parlors you know. Think of all ofnament; the parion overloaded with vates, easels, foot-atools, and you muit recognize that this is so. And once more are we on the verge of a
revolution. . . . People ere stater of over-decoration, and are returning to
simple lines. The Arts and leindicrafte movement, of which more will be said awakening tendency of pur of this the rage for simplicity may become a年; yet there is so much that is com-
mendable in it that we shall deserve no
smell to becortion of blame if we permit it li become merely a fad. Contrast the
living-room shown in our illustration whth the ordinary be-draped, be-calendered curl-
osity-qhop which "parlor," and you must, wo are sure, agree with this.
There is little in this room that sure. There is little in this room that fo not
useful. ornamentation has boen fatro-
duced, but with diometion duced, but with ditacrotions and with an
artiotic touch.


Banbury Tarts.
As the following recipes dififer slighty, 1. shall give them all, and now 1 am sure tarty. We thank all of thooe who heve so kindly contributod.

1. From Mise
Hida
mich. :
"Chop a cupful of peoded rasisins and two ouncee of citron peol. Add a cup ful of sugar, the grated rind and jalce of
a lemon, a little salt, and a beaten ogg A lemon, al little eatt, and a beaten org
Place on rounds of pastry. Brush hal the edge with cold water; bring the ontier hair over the mixture, and press tho edges together with the tines of a fork
dipped 'in four. Bake in a soltrate oven." From "Irish Girl
-I have been we have taken 'The Farmer's Advocate. enjoy so much reading the many help the Ingle Nook, and am sending soo the ecipe for Banbury tarte: Line pattytins with purf paste, ard bake; then fil
with the Iollowing mixture, which has with the following mixture, which has
been cooked and cooled: One cupful been cooked and coloed: One cupfrul
chopped and stoned rasisins the grated
rind and juice of one large lemon, hall a rind and juice of one large lemon, half a uppul sugar, a desertspoonful butter cupful water. Boill in a double boiler untili it thickens tike felly,"" Perth Co.,
2. From Amarylis,"
"Make a rich pie paste, and for the illing take one cup currants, 1 egg, 11
rup sugar up sugar, juice and rind of 1 lemon. Boil together for a few minutes, then fll
tart shells, and bake, or may bo used as
 4. From ". A Subscriber," and "Ubba,"
York Co., Ont.: One. cup. raisine, 1 cup sugar, eracker, 1 egg, juice and grated rind of
Iemon. Stone and chop raisiss; add sugar
cracker (rolled fine).
ang (slightly
Roll cracker (rolled fine). Roll pastry $t$ inch
thick; cut pieces $\mathbf{3 y}_{4}$ inches long by ${ }_{3}$ nches wide. Put 2 teaspoons of mixlure on each piece; moisten edge with
cold water half way round; fotd over, and ,jress edge together with fork diped in
lour.
Bake twenty
minutes in siow ven. It is also an excellent filling for Ubba" also contributes the followcup
cup sugar, 1 eup
cuplish tarts : One egrants,
cup but er. Rake in tart shells.
We were much interested to hear that
Jbba's father has been "The Farmer's Advocate ", from its irst
number.

We will close this series with "A Banhury Tart.". Can anyone answer her
question re a leaky furnace pipe? Dear Damn Durden,-Like Forget-me
 for farming, and wer since I have tived
on a farm I have treen docely interested in on a farm 1 have Wen freply interested in
vour corner of "The Farmer's Advocate." May I come in now for just a few
minutee to help about those Banbury Carts It takes a dear ord Englibi
randmother to know how to do them property. $M$ ve kraidmow ther do do them beet I over tasted. This is her way;
hrako a good pastry as for plee.
Roll
 two and a hal tirches each way. Take ono cup of currants, a tablegpoon of of lemon, and a teaspoon of eseance (enough, to moisten the mixiture). littlo chopped citron peel in an improvement, but is not neceenary. Put a
spoonful of the mixture in the center of a cha square, and told over the eatger jiko it turnover. Make in a good oven, The larte, when Rintiohed, ahould bo about an tong. The above quantities will make absut two dozonve tarts.
Could someone in the Ingle Nook toll me what to do with a leaky furnace
pipe ?
We have burned good, dry hardwood in our furnace all winter, have kept the pipes and chimney clean, and yet that dirty black suff (is it condensed
smokep?) has leaked over everythlog The mall paper and matting overythog. The foor are
mate quito spoiled. People tell us it is all
the fault of the chimney, but no one the fault of the chimney, but no one
seems to know why.
Will someone pleane come to our reacue?
Hoping I have not taken up too much Hoping I have not taken up too mu
of your valuable appace. York Co., ont. A banbury tart We hope this "Banbury Tart" will be

Pruit Cake
"Amaryllis"" writes for a recipe for platn ITruit cahe
She might try the following

1. Two egge, 1 the cups molasses, it cuy sugar, 1 cup butter, 1 teaspoon each o
cinnamon and cloves, cup raisins, 1 cupes currants, 3 cups four Bake rather slowly for 2 hours.
2. Fruit Calcy 2. Fruit Cake Without Eggs.-Tw cups buttermilk, 2 cups brown sugar,
cups raisins, 2 cups ter, $1 \frac{1}{3}$ teaspoons soda, spice to taste 4t cups flour. Will keep two or thre
weeks in a cool place, and is very good. weeks in a cool place, and is very good Cement.
"A Subscriber's" question re cemen walks has been handed in to the "Que
tions and Answers" department, wher it will be answered.

Cleauing Teakettle.
Contributed by " Irish Girl Firg kettle with water, and throw for a couple of hours. This will loose the hard coating, and it can be knocked off quite easily.".

Evening Entertainment.
"Busybody" writes: "I wish you'd evenings, thatterers to describe little


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(Bigned)
JAMES MeCARTNEY.
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## Itarch 15,1906

THE FARMER'S ADVOCATE
the ordinary. I think it would be in- and boil for three hours. If the bees is
tereating, and would help a tellow out tough and old, you might boil longer.
sometimes. sometimes," wourd help a fellow out tough and old, you might boil longer



 farmer's wife, 1 thought I would like to the bottom of the boiler with holes in
help some other tharmer's wif
 kepw in a late issue, "A Aoung Hous
keper" nsking for a recipe to can beed in glass sealers. I , have, for three or
four yens, cond four years, canned from twenty-five to I hope the chatterers will forgive me
thirty cans.
This winter I have canned thirty cans. This winter 1 have canned Ior abridging some of their letters this
Inays have the best form results, and find aitways have the best week. It ion't like to do it often, and
summer, summer, as we live quite a long way
trom a butcher shop. Now in the fry Irom a butcher. shop. Now, in tho farst
placoe. I always use one-quart sealers, and
peo that
 the galas for the top hasn't any check in it.
Scald and dry; don't Scard and dry; don't have the least
water in the can. Then cut your boet in
The water in the can. Then cut your beot in
pieces, as you would to fry or to stew,
oll 7 onur can pill our can, as full as you can, putting
the fat and ifeces that the fat and pieces that are not puite so
nice on top: then put your top on nice on top; then put your top on tight and
put your sealers in ioile in letters in all their ".chat tiness."." But
this time, the correspondence hid got a this time, the correspondence had got a
litte behind some way and was accumuleting so that I had to do something However, come again, everybody. There housh a cormer for each of you, even veeks sometimay have to wait several in print. Next week we shall have room An Clapra," "A Lankshire Lass," "An Extended Paw," from P. E. I., and


Re Paonies.


Mark Twain tells how, when Mme. leraharou visited Hartord, two chari-
hable young women wanted to attend her performance, but finally decided that it
was their duty to send the necessary 86 to two poor neighbors, who thankfully accepted it and used it to buy tickets for he Bernhardt performance.

POOR PACKAGE DYES MAKE Diamond Dyes
Have Made Millions of Wives, Moth
and Daushters Happy, and and Daughters Happy and Wormen who buy and use any of the
adulterated, weak and worthless package adulterated, weak and worthless package
dyyes put up in imitation of the reliable
and never-failing DIAMOND DYFs, -
-

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till when all around you is progress. There are a Hundmed Open. inge for you in Canada, each better course of Home Study in our Spare Tlime will fit you for a higher position, and enable you to H. L. Gillson, Wick, Ont., writes : "In regard to my course in senior aying that it has exceeded work is nost thorough and complete. The study papers are simple and easily
understood. In fact, they quite supply the place usually taken by a per-
sonal instructor. I a m hig hly leased with my course, and feel that the money spent in its purchase
was most wisely invested." than 10
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Hinchat cdooa.


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he Most Nuturtious and Ficonomical

## PIMPLES <br> Blotches. Blaoilheade and and oomolexional affeotions our oud by    Eczewi qunsm posidifyly oure  Complaxion pupirier maken  DANDRUFF OURE th the beat rom.  owLecrnolvede it praitively the  

Graham Dermatologioal Institute Dent. F., 502 Churich St. TOROMTO.

Suffered Ferrible Agony
frow pain across HIS KIDNEYS.
DOAN'S KIDNEY PILLE OURED HIM.
 pum
 and
 Nombl inw
 mber Nom


Portralt of tho Lato Blshon Baitivin

The Loulten Prititiog and Lithogriping en.
Lantion. Onyanlo.
$\$ 12$ WOMANUS sprima suts se.60



Herrons Disenses －Mo Longer a Fal
ANL CLASSES NOW SUFFER FRO RASUSTEA NERVES－SPLENDLD
Dr．Chase＇s
Nemve Food． 7＂ H5 \％ 5 qualities which have done so tho qualities which have done so much
make this empire what it is，＂writes $D$ Guthrie Rankin，an eminent London phy The ke
The keen compotition of life zs now felt sult prostration，paralysis and insanit are becoming more and more commion a the zatural outcome of exheusted nerves，
Sleeplessnese，irritablity，Indigestion， Sleeplossness，irritability，Indigestion，
headicho and general laok of energy an
ambition are among the ambition are among the early indica
tions of nervous troubles，and with tions of nervous troubles，and with fememinine organism．
If a committce of experts on diseases they would give you just such for you ts that of Dr．Chase＇s Nerve Food，for this medicine is composed of the most powerful nerve restoratives known to medical science．
This is no id
st，as we shall b your physician call at these offices and Wamine the formula．
What we consider as better proof of what Dr．Chase＇s Nerve Food will do for ou is to be found in the letters of recommendation published from time to itme in Dr．Chase＇s Almanac，and in the
lewspapers of this country． Naturally and gradually this are forms new，rich blood，the sub－ tance from which the brain creates new which diseases of the nerves can be actu－ ally cured．Stimulants and narcotics give temporary relief，but with great ex－
pense to the nervous system．Dr．Chase＇s
Nerve Food slowly but cortainly revital－ zes the wasted nerve cells and by filling he body with vitality overcomes weak－ ess，sickness and disease． A ravorite means of proving this is by this mediclne．Dr．Chase＇s Nerve Food， 50 cents a a box， 6 boxes for $\$ 2.50$ ，at
all dealers，or Edmanson，Bates $\&$ Co．， all deale

| THEY MADE THIS COUPLE HAP |
| :---: |
|  |  |
|  |  |

Dodd＇s Kidney Pills Doing Good Work Around Port Arthur．
Mr．Diok Souvey and wife Both Had Kid Kidney Remedy Cured Them． Port Arthur，
（Special）． the Kidney ills of muen and women alik has been proved time and again in thi they get a chance to do double work in
the same house．This has happened in the case of Mr．and Mrs．Dick Souvey，a armer and his wife，living about seven ouvey said：
＂My wife and myself have used Dodd＇s Kidney Pills，and have found them a bigg
lienefit to our health．We had La Grippe two winters and were exposed to much Irost and cold．Our sleep was broken
on acrount of urinary troubles and pain

Spriag Fashions．
We have just been taking ．．．． through the stores，looking at all the full force everywhere now displayed in you may not have had the opportunity miss if doing likewise，it may not come saw．First and foremost，of what we
where－dark grery Where－dark gray，medium gray，stee
 all sorts and conditions of women will be wearing it，whether becoming or not．It
always seems that it is a particularly rying color to poor complexions，and
hat only fair women with fuffy golden hair and brow and cheeks like hawthorn buds and rose petals can weer it to the
best advantage．However，much may be best advantage．However，much may be
done by the judicious introduction of an－
other color next to the face． very dark woman cun wear gray quite
safely，it she sees to it that plenty of
soft cream ato the lop of the bodice． As to dosign，checks are everywhere －idence－pin checks，large checks，and
over cherks，not plaids，but suggestions
of plaid in two tones， light ggray，brown and light tawn，green
and navy，etc．These，of course，whil be and navy，etc．These，of course，wril be
worn in suits and shirt－waitst dressos，and are chiefly in light－weight tweeds，French coods，cashmeres and herriettes in plain st，although voiles，twine cloths，crepe－
de－chines and veilings will all be auite rashionable．Panama is a good light－
weight material，which has the advantage ver voile that it does not require lining．
Sicilians，luxtres and mohairs ＂in＂again，though not to suairs are all n account of their They will，however，
nd proof qualities， find favor with many for shirt－waist
suits．wear during
For won and legions of things are shown，such countifil airy things，fairly piling the
counters with billowy suggestions of

Glengarry School Days．
By Ralph Connor－Rev．C．W．Gordon． CHAPTER IX．－Continued． would soon be rid of his evil heart．ie，his hands gaging her，＂said Hugh－
But，＂he continued，ha if his face．
turn the cager to＂Oh，Mrs．Finch，it＇s iust awful But，＂he continued，as if eager to＂Oh，Mrs．Finch，it＇s just awful
turn the conversation，＂you will be mean． talking with my woman you will be She＇s a wonderful wise woman it Somehow the opportunity ，came to
Hughie to take the Hughie to take the old man＇s advice．
On Saturday evening，just before On Saturday evening，just before leaving for home，he found himself
alone with Mrs．Finch，sitting beside the open window，watching the sun ＂down behind the trees．
What a splendid sunset ！＂he cried．He was ever sensitive to the
majestic drama of nature． ＂Ay，＂said Mrs．Finch，＂the
clouds and the sun make wonderful beauty together．sun make wonderful without the sun the clouds are ugly things．
IIughie quickly took her meanin
＂．They are
＂No，not pleasant，＂she he said ＂but with the sunlight she replied，upon them
they are wonderful．＂ Hughie was silent for some mo－
ments，and then suddenly burst ＂Mrs．Finch，does God forget sins，
and will he keep them hid－from people，I mean？＂，
viction，＂she said，with quict con－ viction，＂He will forget，and He
will hide them．Why should He lay
the burden of our sins upon thers？ the burden of our sins upon others？ And if He does not why should we ？＂
＂Do you mean we need not always
tell？I＇d like to

## ＂Ay，＂she replied，＂o it＇s a weary

 Wark and a lanely to carry it oorlane，but it＇s an awfu＇grief to hear
，anither＇s sin．An awfu＇grief，＂

＂But，＂burst out Hughie，＂I
＂ver be right till I t tell my mother．
＂Ay，and then it in sher
Ay，and then it is she moother．
arrying the weight so she
$\qquad$
there are also a few hideous affairs，with
great＂plasters，＂－one can＇t call it any－
thing else－of roses great＂plasters＂－one can＇t call
thing else－of roses and daisies tr over the ground in the manner of o ashioned wall papers．From these，
ou are a civilized woman，turn aside． Safer a cround is reached among turn aside Safer ground is reached among th
dotted Swisses，shown in black，crean white，and white with black dots，al are the ginghams and chambrays in pla effects and pretty checks，all＂safe，＂pro
elded the effects and pretty checks，all＂safe＂，pro
vided the coloring be soft．White， course，is always good，and organdies，
nulls，fine lawns，and linens in white will be worn as much as ever． As to the making ？Why，big sleeves and
rippling skirts，that about covers the rippling skirts，that about covers the
ground．For suits，the Eton and bolero
jackets will hold full sway，with skirts of many gores，all the way from nine to by pleats，if you may conceal the seams
again appeared on the skirts，and will
wave be set close to the hem．For trimming
gowns of thin gowns of thin material much lace will be used，espectally of the fine variety
Valenciennes will be quite
frill edgings，＂made＂yokes，etc．；b
over embroidery still meets with favor，and，for white mhirt－waists，maise thin，dressy gowns，elbow sleeves quite the mode．In fact，the elbo
sleeve has struck the country sleeve has struck the country like gowns，afternoon dresses，and evening costumes，and it is to be hoped that it
will not kill itself，or be hopl by being worn in all sorts killed，rather places．Such abbreviations of unsuitable appropriate for business occasions，o
business offces，and yet，as we heard girl say the other day，＂Think of th
saving on cuffs！＂ saving on cuffs！＂
Now，then，ther
$\qquad$ haps our readers will be fashions．Per fact that we hope soon to publish some fashion plates．Does this mueet with the mean．I don＇t know how I did it．＂．
＂Ye can tell me laddie if will，＂said she，kindly，and ladie，Hughie had lain so long whole burden that lold it laying upon foxy smal with part had come to bulk solar his orgotten．that Foxy＇s was almos For some moments after he ha
done Mrs．Finch sat in silence，lear ing forward，and patting the boy ＂Ay，but he is rightly named，＇
she said，at length． ＂．Who ？＂asked Hughie，surprised she added，＂But ye＇re done wi＇him
and his tricks and and his tricks，and ye＇ll stand up
against him，and be a man for the
wee laddies， ＂Oh，I don＇t know，＂said Hughie
too sick at heart and loo sick at heart and too penetrate
with the miserable sense of his meanness and cowardice to make an ＂．And as tae ye＇re mither，laddie，
went on Mrs．Finch， sair burden for her．＂When Mrs ＂＂Oh into her broadest she alwas his voice yes，now know，＂baid Hughie
＂．and that＇s the with sobs， didn＇t have to tell her ：She＇ll ju
break her heart， 1 l I＇m so－oh－oh－＂The the than feelin
and
For
quiet
laddi

hought of firse ，＂，As Anoth

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SHOEMAKER'S BOOK ON POULTTRY

 G.G.SHOEMAKER, Box 61 , York, Pa.,U.S.A.


yes, $I$ know. But He liowe al ready, and indeed I have often totc forget, and take it away. But
suspect" "Weil then Iaddie, " said Mrs Finch, with quiet firmness, " let he tell ye what to do. Mal ye're ofier to tell her, and warn her that it'l srieve ye baith, and hen lot he say. Yes, II do lt. I'll to it to-
night, and if she says so, then I'll ell her." And so he did, and when he came
back to the Finch's on MI Indey morning, for his mother saw that leaving school fon a time would be no sorious loss, and a week or two with the
 ing her in her chair by the open win dow alone, he burst forth "I told
her, and she wouldn"t let me She her, and she wouldn't let me. She
didn't want to know so long as 1 said it was all made right. And she promised she would trust mee jubt the same. Oh, she's splendid, iny week to see you. And I tell you I Just feel like like anything I I car't
keep still. I'm like Fido when he's keep still. I'm like Fido when he's
let of his chain. He just goos Then, after a pause, he added, in: a graver tone, And mother read Zaccheus to me. And 'sn't it nite -Hughie was too excited to he co-hërent-"but stood up lor him, and" -here Hughie's voice became more grave-r.m going to restore foim and I Arod that old pistol into the pond, and Im not afrald of Foxy any more, not a bit."
Hughte rushed breathessly throurg Hughie, rushed breathiessly through
his stony, whilie the darle face belore him glowed with intelligent sympe-
thy, but she only said. When he hafd thy, but she only said, when he had
done, It is a graund thing to be done, It is a graund thing to we
freep is it no ?

$$
\begin{aligned}
& \text { CHAPTBR } \\
& \text { The Bear I }
\end{aligned}
$$

Ms Don round Mrs, Cameron ?

$$
\text { in the woods? Hughle } 1 \text { Didy glopp }
$$ in the wood come away in. Yere an. And how's ye're mother and all All right, thank you. Is Don in ?'pon? Ho'sesomemhere about the barn. But come away, man, there's

a bit bapiock here, honey," and Incan't very well: walt," Cameron Hughie, trying to preserve an evonness of tone and not allow his ex
citement to appear Whatever well $l$ What's the mattor anatever "bit bannock" " and honey, somo thing must be seriously wrong fom wantinging at, all, but Im Just wing, well, just go to the old barn and cry at him :
Hughite found Don Yughte found Don "n the old born
buty rigging up" his plow, for the busy rigging po " hip plow, for the
harvest "was in and the foll plowing
was soon was soon to begin. thing you ever heard in the greatest look fairly It now. Hughie? You look fairly Ifted. Have you seen a
ghost ?" A ghost? No, something bette Hughie drew near and lowered hi voice, while Don worked on indiffer"It's a bear, Don."
Don dropped his plow. His indif-
ference vanished were great hunters, and many a bear ogs, brought home famous black not for the past year or two. and never had Don bagged anything big-
" Where did you a coon. " I didn't see him." him ?" disgusted. ", But he was in our holuse "Look here, now stop thet" said Don, gripping Hughie thet the
jacket and shalcing hing But Hughie's summer.


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 tracks are there yet mat, besides, the
It we mind the going a bear, sure enough, and I'm " "You ?"

- "Yes, and I want you to come "Oh, pshaw, Dear knows where
he"ll be now," said Don, consider ing. Like enough in the Big Swamp. or in Mcleod's beech bush. They're
awful fond of beechnuts.
But tre dogs can track him, can't they ?" saidd Don, kindling under Hughie's exxcitement. "Wait a but now.
Don't say a word. If Murdie hoars he'll want to come, sure, and we
don't want him. Your I get the gun and the dogs, ", here till
Have you got any huliets slugs ?"
 gun. What did you think I was going to do Put salt on his tail? "ve got it down the lane."
me." All right, you wait there for ". Don't be long," said Hughie, slippeared with the gun and dogs ap What in the world kept you?
thought you were never coming said Hughie, impatiently. coming, get away with it's no easy thing to it's all right. Here's your bullets
and sums.
nowe nocks and cheese. We dor't know
when we'll get home. We'll pick The track in your brîle. We'll pick up
one know any "No, only Funie. He wanted to
come, but I wouldn't have it. Fusie gome, soexcited." Hughe's calmness
gas not phenomenal. He coul.
was was not phenomenal. He could
hardly stand still for two.consecul tive seconds
Well, let
We
on a trot, with, one of the set off
dogs in leash and the of ing, and after him came Hughie
running "In twenty minutes they were at
the manse clearing. the manse clearing
" Now, "said Don, pulling up,
" where" did you say you saw his
a. Just back of the house there,
and round the barn, and then straight The boys stood looking across the
fallen timber toward the barn. "Theres's Fido barking," said
Hughie. "I bet he's on the scent
now."


## There's your answered

"Gimmini crickets! so it is," said
get that track going up there to
just as well in the woon wet it
There were always thins here ? There were always things to
about the house, and besides bout the house, and besides, the
minister knew nothing of Hughie's familiarity with the gun, and hence would soon have put a stop to any uch rash venture as bear-hunting.
The boys waited, listening to Fidd Who was running back and forward
between the brile and the house between the brîte and the house,
barking furiously. The minister
seemen seemed interested in Fido's manoou
vres, and followed him a little way
"Man
whisper. whisper, "parhaps Hughie, in
for the go gun himself and lool Ior the gun himself. And Fido wil
find us, sure. I say, let's go." " "Let's wait a minute," said Don
to see what direction Fido takes " to see what direction Fido takes and then we'll put our dogs on
In a few minutes Hughie breathert more freely, for his father seemed to lose his interest in Fido,
turned slowly to the house. turned slowly to the house.
" Now," said Hughie, " let's get down into the brîlé as near Fido as Cautiously the boys made their way through the fallen timber, keep-
ing as much as possible under cover ing as much as possible under cover
of the underbrush. But though they
But of the underbrush. But though they
hunted about for some time, the dogs
hor evidently got no scent, for they re-
mained auite uninterested in the promained qu
ceedings.
"We'll have to get up closer to where Fido is,", said Don, "and
sooner we get there the better." " I suppose so," said Hughie. suppose I had better go. Fido will
stop barking for me., stop barking for me. So, while
Don lay hid with the dogs in the brüle, Hughie stole nearer and nearer to Fido, who was still chasing down toward the britil and back to
the house, as if urying someone to the house, as if urging someone to
come forth and investigate the strange scent he had discovered.
Gradually Hughie worked his way Gradually Hughie worked his way
closert to Fido, until within calling closer to
distance.
Just as he was about to whistle oor the dog, the back door
opened, and forth came the minister again. By this time Fido had and could not be seen from: the house. It was an anxious moment for Hughie. He made a sudden desperate resolve. He must secure Fido now, on the trail of the bear. So he left his place of hiding, and bending low, ran swiftly forward until Fido caught sight of him, and hearing his voice,
came to him, barking loudly and making every demonstration of ancitement and joy. He seized the dog by the collar and dragged him down, and after holding him quiet for he said. "I'll put this string on his collar, and he'll go all right. to this Don agreed, though very un-
willingly, for he had no confidence willingly, for he had no confidence said I tell you he's a great fighter," et near that bear." " Oh, pshaw !"" said Don, " he may comes to a bear, it's a different thing. Every dog is scared of
bear the first time he sees him."

Well, I bet you Fido won't ru from anything," said Hughie, con
fidently. To their great relief they saw th
minister set off in the opposite direc tion across the fields.
"' Thank goodness ! He's off McRae's," said Hughie "Now, then," said Don, "we'll go dogs on. You go on with Fido."
And Hughie set off, with Fido puil And Hughie set off, with Fido pull
ing eagerly upon the string. Fido had been seized by Hughie, surd-
denly the black dog who had following Don at some distance
stoped short and In a moment his mate threw up his nose and began snifling about, the
hair bristling stilf upon his back.
" He's catching it" "He's catching it," said Don in an
excited tone. "Here, you hod I must get the other one, or he' soon, for the other dog. Who had
been ranging about, suddenly found bark, was about to dlash off whor
Don threw himself upon him. few moments both dogs were on th
leash, and set off upon the scmut a
a great pace. The trail was eviden)
ly plain enough to the
followed hard leading the

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Glen Rouge Jerseys


Mrs. F. A. Rolph,

MARCH 15, 1906

## cossip.

The attention of our readers 1 t directed to the advertisement, on another
page, of the disperion eale by auction on March 28th, 190es, of the entire herd of 15 head of Shorthorn cattle and three Clydeedale Allies, by the great champion nd sire of champlons, McGueen, the
roperty of Mr. C. C. Hanson, of Coaticook, Quebec, all of which will be eold without raserve on a year's time, as the
the alfred rice holstein sale. Breeders of Holstein cattle and dairymen generally will do well to apply early for the catalogue of the grand herd of
Mr. Alfred Mlec, of Ourrie's Crothag P. Mr. Airrod Rice, of Curri's Corosing P. P.
O., Ozford County, Ont., ebout Ave miles
 cows, bestdes helfers and bulls, 22 head in all of registered Holtstins, in excollent condition-the cows heavy milkers, and Sires bred from treat mille famies. dams have been continuously used in the herd, and the cows have been bred to the Geo. Rice. Look up the atvert omen read agatm the notes regarding the offer ing on page ${ }^{381}$ in "The Farmer's Advocate" for March 8th; important shire horse sale. The announcement in our advertising columns of a great auction sale, at the
Repository, Toronto, on March 28th of imported and Canadian-bred Shire stailions, mares and gillies, belonging to Messrs. Morrip \& Wellington, of Fonthinl
Ont., comprising ontected for therr suitablity to the Canadian trade, should attract the attention and attendance of farmera from far and
near. The Shre
fille the bill for the nreeding of quick-eelling horsee at highest prices, with substance and quality. combined with a good disposition and capacious breadbasket and strong consti-
tution.
The proprietors claim that this will be the greatest Shire eale ever held in Canada, and probably in America. six of the 28 head in the ofering being
horsee, and the belance mares and horses, and the balanee mares and
fillies.
Look up the aetvertisement, and \& Sheppard, Toronto.
in important clydesdale sale. As announced in an advertisement in this issue, Messrs. Prouse \& Innis, of Insersoll and Woodstock, ont., will sell by by
auction at
the Roval Ho Woodstock, Ont., on Friday, April 6th, 40 imported Clydesdale mares and filies, personally selected by one of the arm for
size nuality and breading of the hent size, quality and breading of the highest
clase. The excellent cherrecter of the leet
and importation of Clydesdales by theso gentlemen, oold et Wooositock, in Novem-
ber, 1905, was ackkowledged to to ber, 1905, was acknowledged to bo one
of the best lots ever brought to this country, and the sale wae entirely without reserve, everra animal ontered beting
sold to the highest bidder. sold to the highest bidder. The prooent
importation is enid to bo even better inImportation is sidid place and in the same straightlorward manner.
tunity
to
This will be a good oppor-
secure a good young brood mare, capable of doing any farm wirri.
 whose head ofirece is at wat orloo, ont.;
vublished in this issue of ". The Ferrer Advocate," makes a very aatisfactory
 ingr. ito whomically and well managed dur-
history, and probeby carries a better all-round class of risk
than most $H$ not of any simila Chan moti H not of any similar com
pany. The gains in income in 1905 were, in round numbers, $\$ 231,210$; in assets,
 average rate of interest realized on their Tunds was 5.1 per cent.. and the assets at
(he close of the year were $\$ 8,846,658$, consisting of mortgares, debentures and
honds, Ioans on policies, premlum obligafonds, loans on poicies, premum ond
tions, real estate and cash in banke and
 18 a creditabie
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## The Muturall Tfent

36th Anhual statement for the Vear 1905.

Premiums terest and rent.......

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Mortgages ............................................ $84,265,583$
Debentures and Bo Loans on Policies
Premium Obligations Real Estate
Cash at Head Office $3,245,40189$
988,670
39
28,81060 Due and Had................ $\begin{array}{r}257,780 \\ 4,280 \\ 2\end{array}$


## Surplus on Government Standard <br> 8,298,092 15 <br> 231.21 GATNS In 1905

| In Income |
| :--- |
| In Assets | Audited and found correct. Waterloo, February 1st, 1906. M. Scully, f. C. A.,



 norease over 100,





 Debentures and Bonds,
 character, and that we hold them on our books at their net cost.



 at good rates of interest. The average rate realized on our funds was 5.1 per cent.
THE LIABILITIES were agaln computed on the same standard as in forrer yearat



 As in former years, the Executive Committee has examined all the socurities and verifed wif the entriogrelatimg 'to
them on the Company's books.


## IMPORTANT AUCTIONESALE <br> 

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TO SECURE THE BEST PAYING RESULTS Advertise in the "Farmer's Advocate."

QUESTIONS AND ANSWER Miscellaneous.

MPURITIES IN 8 GAYPLE OR ORE CLOVER AND Kindly tell me what weed seeds are present in the enclosed packot of clove and timothy seeds C. W. י. Ans.-Among the noxious weed seeds tioned in the Seed Coning those men we found catchly ade thistle. Under the head and Canweed seeds may be mentioned that other weed seeds may be mentioned that there quarters, chickweed, bugle lamb'sfoll, common plantain, green foxtail, pigweed, sheep sorrel, green foxtail, pig weed, sheep sorrel, ergot, thepherd's-8) purse, witchass seed contains alsike, bluoture of grass seed contains alisike,
grass, white clover and red elover.

> T. G. RAYNOR

Department of Agriculture, Ottawa.

FOR SOWIN CULTMES-DRIL

1. We wish to plant hals an acre
onions. Would Hike to know the be
onions. Would like to know the bes
way. to prepore the soll?
sary to plant the seed and keep neces keop then 3. What kind of drill is used for sow
ing rape? W. H. Ans.-1. Land for onions should be very fine and smooth on the surface, and firm spring with harrow, clod-crusher and rake
suits well.
2. A hand garden seeder is used fo sow for teeping dom whe have to ke used sometimes.

LAWN fENGLNG WHERE ROCE is heas What kind of fence is beest to enclose lawn where rock is near the surface?
Prescott Co., Ont.
SUBSCRIBER. Ans.-Many ornamental iron fences are
advertised, some of them at reasonatile advertised, some of them at reasonatile prices. Most companies who sell such
have their own tyyle of iron posta, and have their own style of iron posts, and,
no doubt, some of these would be suitno doubt, some of these would be suit-
able for your ground. We know of a style of fron post (bleckemith-made)
which has stood the which has stood the test of yeers, in which the post was kept solid by an iron
brace on each side, tho ground ands of which were bent up in the form of a a hook, and into this hook or curve a stone was laid, the whole being buriod a few
inches only. It might be advlsable to inches only. It might be advisable
put up an ornamental wire fance would require but few posts, and use either tubing or solld iron for posts.
drilling a hole into the rock for each driling a hole into the rock for ea.
one.
miscbllaneous

1. What will keep worms out of onlon 2. How would you advise treating lambs that will not suck, even whea the
teat is put into their mouth ? eat is put into their mouth?
2. Would you give me a plan of 3. Would you give me a plan of
simple horse-power for running smal
machinery machinery on the farna? I have an old
binder. "Toronto make," which I Intend binder, "Toronto make," which I Inten
getting the gearling and bolts out of getting the gearing and bolts out of
power for one or two horses only.
G. S. W. Ans.-1. Kemove and destroy aflectod
,nions.
Sprinkle kerosene emulston near he onions. ('hange the onfon bed each First put a finger in the mouth, and He other hand milk some moulh, into
mouth, then place the teat in in Huth and draw or force some millk from IIt, the wouth, when, as a mule, the
(til) will take to sucking. Failing with Chis. "ould try a rubber nipling on an a Winify, so that milk would run freoly, milk a
inis into the bottle and
C. W.
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thooe me
Act, 1905
Act, 1903
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Hhepherd's--
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$49^{2}{ }^{3}$
march 15,1906
THE FARMER'S ADVOCATE




International Stock Food.



CAPITAL, \$100,000.
SHARES, \$20 each.
The Farmers' Mifg. \& Supply Company,Ltd.

Are you a shareholder in the Farmers' Mfg. \& Supply Co., Limited? If not, you
should become one at once and participate in the hef already have about 2,000 farmers who have learned of the value of association and of the added weight which co-operation for a set purpose brings by becoming
shareholders in this practical Co-operative Co. What we do not manufacture we sharehoders in the
buy direct from the manufacturers, and do away with the middleman's profits,
which profits do not add to the value of the article. You save from 15 to $40 \%$解e, and feed corn, etc. Last week we had three cars of feed corn go to some of our shareholders, and they saved 5 c . per
bushel. One shareholder got 300 bushels, and saved $\$ 15$. The benefits are too bushel. One shareholder got 300 bushels, and saved

FARMERS' MANUFACTURING \& SUPPLY COMPAMY, LIMITED Durham, Ontario.

## overe nero SHORTHORNS

FOR SALE BY AUCTION.
C. C. HANSON, of Coatloook, Que., will gell by public auction, at his farm, near

WEDNESDAY, MARCH 28th, 1906 ,
His entire herd of Resistered Shorthorn Cattio, 15 head of that grand old Lavinia strain.
 nces will meet mornivg an hoon tain and sal
EDWIN HOWE,
C. C. HANSON, Prop.,

Laurentian stoves and ranges
 Be sure you buy the best. If your dealer i
not handling our lines, write direct to us fo our catalogue containing cuts and descriptions
and prices of our goods. Manufactured only by
VThe Gould Manuf'g Co., Ltd. Smith's Falls, Ont


OUESTIONS AND ANSWERS. Miscerianeous.
share of tenant. and finds everything to work with, also seed grain and pays tax, and has all finds a house for man to up on farm what share should the to what share
everything ?
2. What share should I give a man, he to do all the work, get up wood, and I to pay for sawing, pay tax, threshing
bill and smith's bill? He is to milk cows, make butter, raise calves, etc. I want grain and hay fed up on farm to
hogs, cattle and sheep, and raise colts, hogs, cattle and sheep, and raise colts,
etc. Now, $I$ should like to have some person that has some experience to give
a plan, so as to give a man that a plan, so as to give a man that does
the work a good chance, and be satisthe work a good chance, and be satis.
factory for both parties. W. H. S. Ans. -1 . When a farm is rented on
shares, and the tenant has his own stoc and implements, it is quite common for
the owner to receive one-third of all sales. In the case you mention, we thin
owner and tenant should have about equal shares. So much depents, how-
ever, on the productiveness of the f.rm, and on the system of farming to be
pursued, that it is impossible to give an exact answer.
2. In this case considerably more tha half should, we think, come to the owner
We suggest that in making such a bar We suggest that in making such a bar-
gain, the average yearly receipts from the farm be the basis from which the propor-
tion justly falling to the man who does tion justly falling to the man who does
all the work should be determined. He should be decidedly better paid than an
ordinary hired man. inquiries con :erning temiseaming. 1. What are the general prices of horse
and other stock in Temiskaming ? and other stock in Temiskaming?
2. During winter, or while crop is growing, what are the chances for em
ployment, and at what wages? 3. How far are the unlocated quartersections from the railroad?
4. What is the best time to come up ? Ans, - 1 . Teams, from $\$ 250$ up ; milch
cows, $\$ 30$ up ; young pigs, $\$ 4$ each, up fowls, 75 c . to $\$ 1$, and upwards.
2. During winter, plenty of work in with board ; also work on rail month in mines at similar wages. During summer,
railroad work and mining offer steady employment, $\$ 1.75$ a day average pay, roads, etc., also, at about same scale of pay. Plenty of employment all year
round for steady men. Those with round for steady men. Those with
knowledge of carpentry and similar trades can make good money in the towns. 3. There are some vacant lots still left in older townships fairly near railroad,
but as a general rule they have been left but as a general rule they have been left
unlocated for some fault, such as swamp or stone. Some new townhips, haw-
over, will, in all probability, be opened for location this spring, bordering on and xtending northwards along the railroud,
which will, I understand, pass through them early this year. It would be adVisable to obtain omcial information from
the Crown Lands Agent, Heaslip P. O., Te Crown Lands Agent, Heaslip P. O.,
Temriskaming, as soon as he is in a posiTemishaming,
tion to speak definitely.
4 For the man with no capital, the 4. For the man with no capital,
fall is the best time to come up, as then he can obtain steady employment for the
winter, and earn enough to enable him to live on his lot all summer. The man
with a little capital might come up in with a little capital might come up in
April, ready to commence as soon as the snow goes; though even he, if he arrived
in the fall, could get up a shanty and do some chopping during the winter, ready for spring operations. Speaking gener-
ally, fall would be the best time-say ally, fall would be the best time-say
mid-October.
G. W. W.

The minister's wife and an unwelcome visitor in a very talkative scandalmon-
ger, so the minister went out for a stroll. Returning half an hour later, he called
out: "That old cat gone, I suppose? ".
 2*5viva

## THE REPOSITORY

 OROMTO, burns a ShePPARD, Proorietors.

Great Special Auction Sale IMPORTED REGISTERED

## SHIRES

Stallions, Mares and Fillies
Wedneslay, March 28, '06

By instructions from MEssRs, MORRIS
W WELCINGTON, Props. Fonthill Stock Farm, Fonthill, Ont. we will sell oin

 ment are markets. Iroluded in the exip
Conadian-bred animals. ohoioe registered

Catalogues containing foll desoriptions and
pedigrees may be had on application to
BURNS \& SHEPPARD, Toronto.
C. A. BURNS, General Manager and Auctioneer.


A BEERTA
Do You Want One? WE SELL THEM.

Samis of Bush, Calgany.

## SHORTHORN BULLS

and HEIFERS
Sired by the Scotch bull, Scottish La d 45001 S. DYMENT, Baprie,


## WANTED

Every farmer in Canada, who has not already done so, to PROVE for HIMSELF that CARNEFAC is an absolute necessity for the SUCCESSFUL raising of CALVES and PIGS, as well as the fBEST TONIC on earth for horses or cattle that are NOT THRIVING properly. These are cold, solid facts, and we invite you to prove them. We offer no gifts or premiums, just CARNEFAC, the tonic used by all good feeders. See our dealers, or write us direct, at once.
THE CARNEFAG STOCK FOOD CO., Winnipeg, Man.

Tomonto, Ont.


Clydesdales
and Hackneys
oaloetr bros., Dundoe, sootiand.



JAMES DALGETY, Glancoe, Onf.


Clydosdales French Coachers, Imp.


ROBT. NESS
a SON, Howic
"PEERLESS" INCUBATORS AND BROODERS


Built on Honor.
Fully Guaranteed.
A Canadian Triumph in Artificial Incubation.
Our Improved Chick Drawers not only add 2.5 pe cent. to the air capacity of the egg chamber, but permit the chick to be removed without interfering with the hatching eggs.

Our Tuloular Copper Tank is the best, most practical and most economical system of heating ever devised for incubato or brooder use.

Our Regulator, once adjusted, will permanently control the heat with a degree of accuracy heretofore considered impossible

Catalogue and prices on application.
The Lee-Hodgins Company PEMBROKE, ONT.


The Angle Lamp

$\qquad$


Nat to bot dia

SSSY The bach bpecinaty oo



 Aso to acres partidat improved





## $\$ 500$ Reward


thos. mercer. Markdale, Ontario. Bull Wanted Durhan merato not ioner

OLYDESDAIJEN
 LLLEX. micorecor, Uxbridge, ontario.
 1. pilanting everoblens.



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DODDS'
KIDNEY PILLS

MARCH 15, 1906
THE FARMER'S ADVOCATE.

## GET IN TOUCH



With OAKLAWN FARM if you want a stallion. This is the greatest breding and importing establishment in the world. Nowhere else in like measure can
you find the essentials of your permanent success. you find the essentials of your permanent success.
The best stallions, individually and as breeders, are
here. Prices are most reasonable and terms libere here. Prices are most reasonable and terms liberal ;
the guarantee the most liberal and safest for you given anywher
Percherons, Beigians and French Coachers
A superb collection to choose from. Send for new illustrated
catalogue to-day, which shows the facts, and visit us before you
DUNHAM \& FLETCHER,
WAYNE,
DU PAGE COUNTY, ILLINOIS.

## 125 Percheron, Shire and

Hackney Stallions \& Mares

han any other exhibitor.
For the next mol dill sell the best in Americe at
LEW W, COGHRAN, 100 s south OFFICE: W : GRAWFORDSVILLE, IND.

## HODGKINSON \& TISDALE

Breeders of High-Class Clydesdales and Hackneys BEAVERTON, ONT.

Our present stock of mares and fillies are the best lot we ever had to-
gether. Among them are championship, first, second and third prize winners at Toronto. Our prices are consistent with quality. We have

BEAVERTON P. O. \& STATION. Long Distance Telephone.

J. B. HOGATE'S

Shires, Clydes, Percherons, Hackneys and Spanish Jacks. My latest importation includes 55 head of Shire stallions
and fillies, Clyde stallions and filles, Hackney and Percherom stalloms and spanteh, facter many of them prizewinners in End Epand, Sootland and Francea,
This is a giltededed lot and the best we weri importa bining size and quality.
witablee at WESTON, ONT. Telephone connection.
J. B. HOGATE, Pmoprietom.
"Caimbnogie," CLAREMONT
HACKNEYS and CLYDESDALES
 on hand for
just arrived.


## GRAHAM BROS

smorruse

GRAHAM \& RENFREW'S


GRAHAM \& RENFREW, Bedford Park.


Clydesdales \& Hackneys


G. \& J. HAY, $\qquad$ Lachute, Que.
| QUESTIONS AND ANSWERS.

| OUESTIONS AND ANSWERS. <br> Miscellaneous. <br> WHEN TO SPRAY |
| :---: |
| In your issue of Feb. 22nd I saw a fiece on the treatment of San Jose |
| srale and any other p'ague to fruit trees. |
| thought it was a very good piec |
| tend to try it ; but would like to kno |
| ben to spray to obtrin best |
| stbscriber. |



 special Sales of Thoroughbred stook conducted Consignments Holicitited. Corresponaence This is the best market in Canade for either
buyer or seller. Noearly two hundred hornes nold

Hackney Stallion
 years, firat at Woatera Fatr, Londol. 1904 and 1905, olre Lenagmer (imp.).

Shire Stallion
Doatord Marquie ( (imp.), Arat at weitara
Fatr. 1804 and 1005 , at proved olro of quickThese will be wold well worth the
money, as the ownor, Mr. E. O. Attrill, money, as the owner, Mer. prions. Apply हo Mr. Chas. Garrow, Agent, Shire, Percheron, Clyde, Belgian Shire, Percheron, Clyde, Beigian
Standard-bred and Coach Horses, Standard-bred and Coach Horses,
eleo spAmish-gred shoks, for Eele.

W. R. GRAHAM, Box 38 . KInoardine, Ont NEW IMPORTATION
 I have landed one of the best CLydesdales, shires HACKMEY STALlions, males and Allios ever landed


 DUGALD ROSS, Streotavillo. Ontarlo. CLYDESDALES The get of such notables ae
 bree size ind quality, their
bunsurpased, and
will sell them chesen GEO. G. STEWART,Howick;Oue,

My. motho. "The Best is None too Good." Imported and homebred Clyy endaco and shmire
horses, soctch Shorthorn catto. Leicester shoep.




## Trumans' Champion Stud <br> Bushnell, Illinols.

Smire, percheron, belgian and hackuey stallons Read our reoord at the great International Show recently held in Chicago. We won the following prizes on Shire and Hackney stallions:
3-year-olds
2-year-olds

$$
\begin{aligned}
& \text { 1st, 2nd, 3rd and 5th }
\end{aligned}
$$

Also Champion and Resenve Champion Hackney Stallions Our stallions were admired by all who saw them. Before buying a stallion of
either breed, we respectfully ask that you write and let us know your wants. We oan save you money. Our prices and liberal guarantee will astonish you. Our record
in the show-rings is evidence that we keep nothing but full of prizewingers, and they are all for sale. We insure stallions against death from any carse, if desired.
Write for Write for illustrated catalogue of our horses. Importations arrived, July,
September and November. TRUMANS' PIONEER STUD FARM H. W. TRUMAN, Manager, LONDON, ONT.


25 Parcherons, also French Coachers, Hackney and Clyde Stallions
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## the very best SHIRE STALLIONS


and High-class Pedigmee Colts
are owned by that wellknown breeder, Clement Keevil. An importation Stud, England Ban now be seen at



LaFayette Stock Farm
J. Crouch \& Son, Proprietors.

Largest importers in America o OLDENBURG GERMAN COACH, PERCHERON
BELGIAN STALLIONS.
J. Crouch \& Son, LaFayette, Ind,
$\begin{gathered}\text { Sedalia, Mo. } \\ \text { San } \\ \text { Jose, Cal. }\end{gathered} \begin{gathered}\text { Nashville, Tenn. } \\ \text { Portland, Ore. }\end{gathered}$. Write us at London. Ont.. or LaFayette In

## INNIS \& PROUSE

 Nuoh moted blood as CLYDESDALE STALLIONS represent Everard, Up-to-time, Pride of Blacon, The Dean, Prince Fauntleroy and Lord Stewart. They were selected with great care : combine size and quality. They are an A1 lot. INNIS \& PROUSE,Woodstook and Ingemsoll.


IIEIEIIRSIOINEATH HOLSTEIN CATTLE
Wednesday, March 21st, 1906




P. R. RVINEE: ALMAs,

Valley Farm Shorthorns


WM. HENDRIE, Hamilton, Ont.
 titution, and have just lately been taken up from pasture field. Fifty fall-farrowed Large Yorkshires, three months, young
sow. Your choce, three for $\$ 15.00$. Above stock reasonable in price
to an early purchaser

WM. HENDRIE, JR.,
A. SUMMERS,

Manager, Hamiliton.
Supt., Aldemshot P.O.
Jospph Rodgers \& Sons
SHEFFIELD, ENGLAND.


James Hutton \& Co, Montreal, sol in anmanas


FIVE NICE, SMooth
REFORD BULLS for sale.
 6 monthe and three from 8
Priced right to do business. W. BENNETT,

Broxwood Herefords
 and dams. prizewinning stook
Royal and leading English shows.
R. J. Penhall, Nober P. O., Ont THE SUNNYSIDE HEREFORDS

Canada' 1905 Mineral ProCanada's mineral production durin 1905 aggregated over sixty-eight and a half million dollars, as compared with $\$ 60,073,897$ for the previous year, and
$\$ 62,600,434$ for 1903. The leading items of productio
Metallic ores

Quantity. Value. $\begin{array}{llll} \\ \text { Copper, } & \text { lbs.. ... 47,696,502 } & \text { \$7,420,451 } \\ \text { Gold ... } & \text {... .... }\end{array}$ | $\begin{array}{c}\text { Iron ore (ex- } \\ \text { port), tons } \ldots . .\end{array} \quad 116,779 \quad 125,119$ |
| :--- | $\begin{array}{cccc}\begin{array}{c}\text { Pig iron from Ca- } \\ \text { nadian ore, tons }\end{array} & 70,554 & 1,047,860\end{array}$

 $\begin{array}{rrrr}\text { Nickel, los. } & \text {...... } & 8,876,315 & 7,550,526 \\ \text { Silver, ozs. } & \text {..... } & 5,974,875 & 8,605,957\end{array}$
Cobalt ..........
Metallic products
including zinc,
lbs. ... ... ....
240.000
-
Non-metallic ores- $\underset{\text { Quantity. Value. }}{ }$
$\begin{array}{cc}\begin{array}{c}\text { Asbestos, } \\ \text { tons } \\ \text { tol }\end{array} \text {... .... } & 50,670\end{array}$
Coal, sh't tons $\begin{array}{llll}\text { 8,775,933 } & 17,658,615\end{array}$
$\begin{array}{lll}\begin{array}{l}\text { Corundum, short } \\ \text { tons }\end{array} \ldots . . \text {....... }\end{array} \quad 1,644 \quad 149,152$
$\begin{array}{r}\text { Grindstones, sh't } \\ \text { tons } \\ \hline\end{array}$

Limestone for $\begin{aligned} & \text { or } \\ & \text { flux, sh't tons }\end{aligned}$ 341,614 258, F59

| Mica $\ldots$.... | 168,043 |
| :--- | ---: |
| $M$ ineral water | 100,000 |


| Mineral water... |  | 100,000 |
| :--- | ---: | ---: |
| Natural gas |  | 814,249 |
| Petroleum, blls. | 634,095 | 849,687 |

$\begin{array}{lrr}\text { Petroleum, bbls. } & 634,095 & 849,687 \\ \text { Pyrites, s't tons } & 32,744 & 123,574 \\ \text { Palt, sh't tons } & 45,370 & 310,858\end{array}$
Structural clay and clay products- $\underset{\text { Quantity. }}{\text { Qalue. }}$
Cement, bbls..... $1,360,731$ \$ $1,926.014$
Grante $\ldots . . . . . .$.
Sands and gravels
Sexpert) gen

| (export), tons. | 366,935 | 152,805 |
| :--- | :--- | ---: |
| Sewer pipe | 1.... |  |
| 822,000 |  |  |

Suild'g material 6,095,000
The total production of pig iron in
Canada last year from native and imCanada last year from native and tons, valued at $\$ 6,492,972$. Of this it tons, valued at $\$ 6,492,972$. Of this it $\$ 1,047,860$, should be attributed to Canadian ores. The metallic class
aggregate increase of about and a
six quarter million dollars, and, omitting the
quat Yukon placer gold, which decreased by
$\$ 2,172,800$ the general mineral industry
of the rest of the Provinces shows a $\$ 2,172,8$ rest of the Provinces shows a
of the
considerable augmentation, approaching considerable augmentation, approaching
eleven million dollars. Coal forms 25.77
. er cent. of the total mineral production
o Canada; gold, 21.14 per cont.; nickel,
1.02 per cent.; copper, 10.83 per cent. of Canada; gold, 21.14 per cent., ncent.,
11.02 per cent.; copper, 10.83 per cent. ;
brick and stone, lime, 8.62 per cent. ; brick and stone, lime, 8.62 per cent.; ;
silver, 5.26 per cent.; lead, 3.84 per cent.;
cement, 2.81 per cent.; asbestos, 2.19 per cement, 2.81 per cent.; asbestos, 2.19 per
cent.; pig iron from Canadian ore, 1.53 per cent., and petroleum, 1.24 per cent.
Coal, it will be noticed, occupies the argely predominant position, and when
dded to the value of the metallic prodadded to the value of the metallic prod-
ucts, about 80 per cent. of the production
of the country is accounted for.

Clydesdale stallion hirings. In no former year has the hiring of
Clydesdale stallions commenced so early
$\qquad$
$\qquad$
$\qquad$ Central District for 1907, and now he has
let his beautiful three-year-old, Memento, Tet his beautirn
to the Stranraer District Horse-breeding
Association for the same year. From Association for the same year. From
this, it is quite apparent that the rivalry this, it is quite apparent that the rivalry
of district societies to secure the best is
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$

Do Not Feed Herlbageum by the Use a tablespoonful and do not heap it. An even tablespoonful, or t of an ounce,
is a feed. This is 64 feeds to the pound, and when fed regularly will give better results than a larger feed. HerIt simply gives the flavor necessary to insure thorough assimilation. An even tablespoonful of Herbageum is the right quantity of the right material's feed. A handful, or a heaped tablespoonful, will not give as good results as an even tablespoonful, and the cost is four times
as great. Remember this: An even tablespoonful is a feed, and there are 64 feeds of Herbageum to the pound. Do not feed Herbageum by the handful,
and then complain that Herbageum is too expensive to feed regularly It is not expensive; 25 c . worth will make 1t tons of skim milk equal to new five feeds for three calves or three yeung pigs, and one cent's worth makes five feeds for a horse, cow, steer or hog. Herbageum does and will give proatable rou from testing the matter. If you have a horse or other animal that is not thriving as it should thrive, you are in a
position to test Herbageum, and to do it to advantace and with profit. Throw prejudice aside, and make the test. TBEL.C.SMITH
FEED and LITTER CARPIERS


CEDARDALE SHORTHORNS


Shorthorn Cattlo and Lincoln Shoep
Shorthorn bulls, cows and heifers
for sale at greatly reduced prices
for the next 60 days.
.T. GIBSON, Denfield, Ont. Shorthorns, Cotswolds, Barkshilres
 Present offerings: Calves
of both sexes, from 1 to 7 months ; also cows and heifers, 56 head to select from.
Nothing to offer in Berkshires Nothing to offe
or Cotswolds.

## OHAS: E. BOMNYOASTL튼․

Shonthomns ${ }^{\text {Fon }}$

 and H. K. paippana
K. FAIRBAIRN. - Thodford, Ont Young bulls for sale, mired by Speotator, imp.
 MAPM HGAF STOCK FARM
 BRAEL GROFF, Klma P.O. © Stn, G.T.R. ROWAN HILL SHORTHORIS Herd bull for sale : Greengill Archer. imp. and herd is not large enough to keep more than
one bull ; also a few young bulls and heifers A. DUNCAN SONS, Cairluke, Ont

SHORTHORNS A few good bull calves for sale at reasonable D.
milking strain. JOHN RACEY, JR.
Lemnozville.: Que Young Shorthorn Bulls for sale-One ${ }^{2}$ one year. Also a number of females. Good
milking strain. Prices right.

BOY- MY THIS CREAM EQUIVALENT SMELLS GOOD


## BIBBY'S CREAM EQUIVALENT FOR RAISING CALVES. <br> Robust healthy Calves are ensured when this meal is used. Easily prepared- anyone can do it. Directions in every Bag. Sold at a moderate price in 50 lb . Bass. IJairy Meal for Milch Cows.

ASK YOUR DEALER。

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Cream Equivalent for Young Calves
Bibby Meal for Fattening Live Stock
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WM. RENNIE CO., Limited, TORONTO.
Winnipeg and Vancouver.


## Double -Manure Value. <br> \section*{$\mathrm{E}^{\mathrm{VERY} \text { man who }}$ has usure}



IDEAL WOVEN WIRE FENGE When you bulld fence, you ought to be thinking of permanent improve-
ments. Tinkering does not pay. Fences made of light wire, and wires that








## Farm Labor Problem <br>    <br> National Cream Separator <br> It will save time and labor in your dairy, as <br> 

Thes INational

The RAYMOND MFG, COMPAYY OF GUELPH, Limited
GU曰urey, oandada.
$\qquad$
$\qquad$


## Or. Shoop's

## Restorative.

SHORTHORNS

## QUESTIONS AND ANSWERS Miscellaneous. <br> RINGWORM AND WARTs.

Herd buls: Imp. Prime Favorito $=45214=$,
Imp. Scotish Pride $=36106=$, a Marr Roan Lady, Present offering:
20 young bulle
20 oreod again.
Visitors welcome. New eatalogue just issued
W: G. PETTIT \& SONS, Freeman, Ont Burligetion Jot. Sta. Liong didistance telo-
SHORTHORNS The champion herd of Canade,
by thos is he headed
Dy Royal gnd sprtinghurbe. catuf of all seged fa sale,
ring.
R. A. \& J. A. WATt,

Salem Post and Tollopraph Ofmeo. Elora Stn.
is miles north of Gualph on Shorthorns for Sale


 Now Year.
JOHN CAMPBELL,Fairview Farm, Woodville, Ont. Wil. Gralnger \& Son, Famthor, Horad of
 rioes ramoonabile. Londocbone sta. and P.o. SHORTHORNS AND DORSETS.
 reasonable. R. H. HARDWGG sppina valley Imp. Rappton Chancellor = 40 RTS

 KYLEE BROS., Ayr, C.P.R.I Parte, Q.т.R


 BARREN COW CURE


## BRUCE'S RECLEANED FARM SEEDS







Remit 20 Cents Each for Two-Bushel Cotton Bags; 25 Cents Each for Clover Seed Cotton Bags
Our Beautifully Tllustrated Catalogue of Seeds, Implements, and Poultry Supplies-96 pages-mailed free to all
ant
ITTLE GIANT GEARED HAND SEED SOWER-The best seeder offerid.
JOHN A. BRUCE \& CO., $\substack{\text { SEED MERCHANTS } \\ \text { Estabilished } 1850}$ HAMILTON, ONTARIO.

6 Shorthorn Bulls 6


S. d. PEARSON, SON \& CO., Stations: Mtreativiliw and Mieanowvale, C. P. B
ByImanmenco SHORTHORNS
8 hilfors under calvas.
 John DOUGLASS. PETER WHITE, JR.,
SHORTHORNS
Hrard cheaded by imp. old Lancaster $=$ sones $=$

GEO. AMOS \& SON, Moffat Stn. and P.O., C.P.R.
Glen Gow Shorthorns is is propent offerin



Ok Grove sor
 maleg several heifers and seevaral youp bulus

COTCH-TOPPED SHORTHORN

g. Golding \& SONs, Thamesford, ont ataions, Thamesford, C.P.R.; Ingersoll, G.T.A Sunnyside Stock Farm ${ }^{-8}$ shopertior youn for alle Al from imp. bulls. four trom imp
Cow. Good enoush to place at head of any
 Brown Lee Shorthorns ${ }^{- \text {Present }}$ offering


Beaucamp.
DOUGLAS BROWN, Ayr P. Pe and Station

## ©HOR'THORNS

imported bulls of gilt-edged breeding and of the finest quality.
bulls from imported sires and dams ; thick, sappy, good feeder
4 fulls from mimported sires and from straight Scotch cows of the bulls from impor
best breeding
imported cows with calves at foot, or nearly due, on which $I$ am making an interesting proposition.
cows and heifers, bred here from straight Scotch parents, a man has
No man has ever been in such form in Canada to offer such Shorthorns
as the above at such moderate prices. Ask for catalofue sund lot, but the cattle will speakk for themsel ves if you come and see them. Am taking orders now for SHOW Or BREEDING SHEEP of the
following breeds: Shropshires, Oxfords, Cotswolds, Southdowns, Dorsets or Hampshire, to be imported in time for the coming show seasonds, Dorsets

ROBERT MILLER,
Stouffille, Ontario.

SHORTHORNS

and
, miroublu sons.
SHORTHORNS


CLYDESDALES
Just now: One pair of matched geldings 5 and
yearrs old; show team.
BOS. MCARTHUR, Gobles, Ont Offers Sootoh and Scotch-topped bulle
coms and hifers, 50 Shropshire rams and ewea
ond Berkshire

 Shorthorn Catille, Leiésster Sheep.


HILLTMEWBTOCK RARE SHORTHORIUS, cirosente Present offerings: Choice young bulls and
heifers. Also a few good youung cow
and
 $884+$ hillhurst farm +190 SHORTHORN CATTLE

 AS. A. COCHRANE, Butterfy). (Sittyton GLENAVON STOCK FARM Shorthorns and Berkshires W. B. ROBERTS, Sparta P o
 then thementorn

QUESTIONS AND ANSWERS. Miscellaneous.
coal ashes as fertilizer
tilizer? What would I do with a them it not? Wi-hing you good success in the Ans.-They are of no use, except,
perhaps, to lighten up a clay soil, and for this purpose
they have to be applied in considerable
quantity. They help to make
and road, if used fur that purpose.
DEPTE FOR FOUNDATION.

Under barn, is it absolutely for basement dig the trench deep enough so that frost
will not penetrate to the bottom, or will a less distance do, provided a solid
foundation is reached, at, say. 18 or 20
READE Ans.-The depth you mention is quite How TO PIND AMOUNTS OF ORAVEL NEEDED. CEMENT Please give the formula for finding out
the amount of cement and gravel and stone filling it takes to build a wall. I some people have been asking me what
mount of materinl it would take ta build a square cistern to hold twenty
barrels of water. How do you figure out takes to lay a stable floor underials it
where the mancers arn, Where the mangers are raised up, also
how to find water content of cistern? Ans.-A barrel of cement contains four
cubic feet. That is sufficient for ordi-
nary wall nary wall purposes, if wool Portland ce-
ment is used to mix with one-fourth to
one-third cubic feet). Ford of gravel (32 to 43
feet, of wall up to 40 , accornding to to strength of and con-
crete, and yond loads of gravel required, and at the same
time the numlier of finrole needed. Fistimate for fine surface wor
has to be made separately the less of other material is concrete,
There are about lons in a a cubic foot. and one-fourth gal-
capacity entimate the capacity of cistern. find cubical contents
homemade lightning rods.
made lightning rods. You recommend gether.
Ans.
A
SUBSCRIBER. ning rod needed, and run out the nind strands of wire, one after another the ne quired length. allowing for six inches of
shrink per 1 too fuet in the twisting.
end end of the wires can be fastened to a
stake, driven into the krourd and well
braced, by being passed through an auger, hole, being passed throug and end bent around
and made firm. the other bend can be
and
hooked one by one around the
$\qquad$
$\qquad$

$\qquad$

## Special 30-Day Offer

For thirty days we will send, absolutely Pree of ocharge, one
regular pint size of Now Zealand Dip and regular pint size of Now Z Zealand Dip and
Disinfootant with every pail of WORTHINGTON'S STOGK TONIC Ordered at regular price. We are making this offer in order
that all my have ohance to try Now Zealand Dip that Disiminfeotant, one of the best non-poisend Dip
 Stook Tonlo we feel that it is the greatest digestitive agent

 cannot be obtained in any other way. Do not miss this op-
portunity, send in your order to-day. We pay freight.
$\mathbf{2 5 - 1 b}$. paile, $\$ 2.00$; $50-1 \mathrm{lb}$. palls, $\mathbf{\$ 3 . 7 5}$.
BOGARDUS \& CO., Chemists, GUELPH, ONT.

## THE NEW QUICK WAY TO CURE

## 

Is Without Operation, No Pain, No Danger, No Loss of time From Daily Work.






 DR.W. S. RICE, $21 / 2$ East Queen St., Block 279 Toronto, Ont. Do you wear a truser

Does rupture pain?
On which side ruptured?
Age................ime rupured
Name....

KENWOOD STOCK FARM. SHORTHORNS.
 red cows, for sale. Choice Lincoln sheep:
Berkshire and Tamworth hogs offered. haiming bros., Highgate, Ont. Kent co. Riverviaw Shorthorns and Oxfords shorthomp rovidiant Crimon Ylower


 Poter Coohran, Almonte P. O. and Sta


Present offorings: 4 choioe
young bulls 9 oht months ;also
fow good heifers
 tocks. JOHN LEE a sons,
Mighgate,


## SHORTHORNS

himp. Golden Cross at head of herd. 6 young
bulls, three reds and three roans, from six to
then twelve months old. Parties wishing to visitit the Ripley Stan. G.T.R. Rerid, Pine River, on
A. EDWARD MEYER Box 378. Guelph, Ont.
8COTCH 8HORTHORNS
a specialty. Herd bulls-Scottigh Hero (imp.)
a Bhethin Rosemary; Radium, a Cruickshank
 GEORGE D. FLETCHER, Breeder Sootoh shorthorm Gatio

 Olinkham P, O., Ont. Erin Station and $\mathrm{T}^{\circ}$


Messrs. J. \& W. Russeli; Richmond Hill ont., advertise in this issue for sale 12 young shorthorn this standard hend has a prizewinning record, and a fame for producprizewinning record, and 8 fare for, tion an champions equalled by few, representatives of the leading Scottish herds, and having had the benefit of the services of International prizewinning
sires, the desirable quali les of easy keeping and early maturity, together with substanoe, thick flesh and mossy coats, are
found 'in the herd in the found in the herd in the highest degree.
This herd, it will be remembered, produced the great champion bulls, Lord Stanley, Moneyfuffel Lad, and Topsman, a
triumvirate, it is safe to say, unequalled as coming trom any one herd in America.
The prineipal sire in service at present is The principal sire in service, at prisent is
Imp. Stephen Fitz-Forester, by stephon
Fitz-Lavender, bred by Mr. Deane Wilis, Fitz-Lavender, bred by Mr. Deane Willis,
and sired by Bapton Javelin, by Count Lavender, of the Sittyton Lavender
family. Parties looking for thitty, family. Parties looking for thrifty,
vigorous young bulls of the Dest breed-
ing should write Messra. Ruesell, or, ing should write Messrs. Russell, or,
better, call and see their stock at the better, call and see their stock at the
farm, which is convenient to Toronto ; farm, which is convenient to coronto;
the electric railway passing the gate
nearly every hour of the day.

Messrs. John Gardhouse \& Sons, HighGeld, Ont., report the following sales for
Fobruary: ${ }^{\text {To }} \mathrm{Mr}$. Wm. Hodgins Fobruary: "To Mr. Wm. Hodgins,
Portage du Fort, ported stallion, Coleshill Royal Albert [383] (20387), sired by the great sire,
Moorland Paxton (16259;, dam Stenson Moorland Paxton (16259;, dam Stenson
Duchess (7114), by Royal Albert (1885), at a long price. This horse is just the at a long price. make a name for him-
kind that should
self any place, being possessed of what self any place, being possessed of what
is required in draft horses-both size and is required in draft hovses-both size and
quality. To Mr. A. S. WFil, Mynard, quatity. S. the imported-in-dam Shire
Neb.. U. U., then
stallion colt, Monarch sired by Eskham Stallion colt, Monarch. sired by Eskham
Waggoner, dam Prficess May (imp.) Waggoner, dam Puticess May (imp.
$[212]$. This is a grand good colt, and should make a splendid horse. To Mr.
Toil McCallum, Brampton, Ont., the im . Neil McCallum, Brampton, Ont., the im-
ported mare, Princêss May [212]. She orted mare, Princeess May [212]. She
is a very Harge mare, and seems Hke
ike
sing a splendid breeder, being the dam being a splendid breeder, belng the dam
of the stallion colt, Monarch, sold by us
to go to Neb. To Mr. William Clarkto go to Neb. To Mr. William Clark-
son, Malton, Ont., a nice stallion colt,
by Coleshill Royal Albert, and the excelby Coleshill Royal Albert, and the excel-
lent Campbell Rosebud cow. Lady
Marjory $=33923=$ by Brapmen Marjory $=33923=$, by Brampton Hero
$==16932=$, and her beautiful roan heifer $=16932=$, and her beautiful roan heifer
alf, Lady Rosebud $=72406=$, by Scottish Prince (imp.) $\quad=50090=(84728) . \quad$ We still have for sale a few nice flllies and
the stallion colt, Royal Prince, by Colesthe stallion colt, Royal Prince, by Coles-
hill Royal Albert, dam the great show
mare, Laura hill Royal Abert,
mare, Laura [12]. In Shorthorns, wo
have a few nice have a few nice $\begin{aligned} & \text { young bulls fit for } \\ & \text { service-Cruickshank }\end{aligned}$ Lovelys, Campbell clarets and Rosebuds-all sired by the
grand show bull, Scottish Prince (imp.) These are fit to make herd headers. Also
a number of young cows and helfers,
bred to our stock

 Cured Him Alter the Doctors Gave Him Up.
be
 me of galiop
speaker was m . speaker was Mr, A. F. Mrumford, six fet
tall, and looking Jus what he,is, a huely,
healthy farmer. Fie Works his own farm healthy farmer.
 core said tan
Two monthe
me right on
lurn of lund If Mr. Mumford had started to talke
Psychine when he frit canght cold the
would have saved himsell a lot of antloly
 and sufering:
troubles by kilin
of the disoaso.


IRTHUV JOHISTON
Greenwood, Ont.
 daves yourling bulf, all sired by in portiod
bills, and moot of them trom importeol dims.

PGOTCH SHORTHORIS

 26 balle, onlve.

## Amp.

Priow ong. Otwlogto. Voln clacy, II. Ginctus seny,
Maple Shade


JOHN DRYDEN do SON, Brooklin, Ont.

SIIITHFIELD FARII SHORTHORIS.



THE FARMER'S ADVOCATE.



 HIGHGROVE JERSEY HERD.




 An outan nio dorsey Bull, fitioo fice tobal airee Priou
 AYSHibES AMD YORRSHMRES



radirlomato Prarinaty to
ALEx HUMEL 4 co... Manle, ont.
Aymshire Bulls
For saio 12 Ar Ahtro bullo on to

W. Owens, Monte Bello, Que THREE PRIZEWINNING
AYRSHIRE BULLS FOR SALE





 roble our vality and stoak Perm




Registered Ayrshires $\begin{aligned} & \text { Gright } 8 \text { mile of Maple } \\ & \text { Grove }-16593-, 5 \text { years }\end{aligned}$
 years: sire Signal of Maple Grove, dam Bright
giuile, us alove: in calt. Joseph Hudson, Lyn, Ont.

## AYRSHIRES

The famous Relord Herd at St. Anne de Sir william c. Wacdonald. by
Several yearing bulls for sale;
 Quality and appearance extra good,
bred from the best milking strains, noted for robust constitution and
large teats.
For particulars apply to

## MACDONALD COLLEGE

 St. Anne de Bellevue, Quebec. WUOLBINE HOLSTEINS Herd headed by Sir Mech thilde Posoch, absotutely theo best omemial-backel sire in Canad
Dam

 Ayt, C.P A. KENNED SPRINGBROOK HOLSTEINS \& TAMWORTHS

 A. C. Hallmanan. Waterloo Co.. Breslau, ont. SHANNON BANK STOCK FARN FOR AYRBHIAES AND YORKEHIRES Younh stock of both sexes for
sabe form from imported estock. W. H. TRAN. - Oedar Grove, Ont. ATRSHIRES FROM A PRIZ WIMNIMG HERD
 Camnhelliord Stn. O Memle P.O., Ont.
SPRINGBROOK AYRSHIRES.

 QUEEN CITY HOLSTEINS If you would dike to purchase a young Holstein
bull whose ilie \& dam has an ooticial record of
550 pounds of milk and seven ays. write to R. F. HICKS, Newton
Brook P.O., York Co. Holsteins at Ridgedale-A few choice bull and
by Prince Paulifr ere culves on hand for sale saled sired
bih. Ages an to ten

 HOLSTEINS AND CHESTER WHITES,

 Can Mow offer one stock FARM

 IMPERIAL STOCK FARM HOLSTEINS

Mr. Peter White, Jr., l'emhroke, Ont.
in ordering a change in lis. advertisement
of Shorthorns, writes : 1 I recently sold
io ot Mr. R. T. McLaughlin, Alba P. O.
to Mrem
Renfrew County, a yearling daughter of our show cow, Carrie Nation, which
stood third in Toronto last fall, and a spondid, blocky young Missie bull, sired
by Merryman (imp.). Mr. McLaughlin has made an extremely wise choice, and
has laid the foundation for a herd of good useful cattle, and will, no doubt, be
heard from er in the near future Mr. L. K. Weber, Hawkesville, On
writes: $:$ I have still four young, Short
horn bulls to sell-thick-fleshed, fow down, blocky fellows from 8 to 11
months old. Can also spare and heifers in call to Good Morning
and
(imp.). He is developtng into a very deep, heavy-fleshed animal, full of quality,
smooth and straight in his lines and he smooth and straight in his lines, and he
is of the best Scotch breeding, tracing on his dam's side to Miss Ramsden. He
was bred by Wm. Anderson, Scotiand, and imported hy J. Watt \& Son, Salem. blood, and full of size and quality, and my prices are as low as any of similar
breeding. I am also offering and breeding. I am also olfiering a pair of
heavy-draft Clyde mares in foal to Sir
Wolter."
Rev. James Allen, Superintendent of
New Ontario Missions, speaks in the most sanguine manner of the future of Northern Ontario. The stxteen million acres
of rich clay land north of the Height of Land was said to be as good as that at
the head of Lake Temiskaming. He had het sittlers in that district from all him that the soil was as good as any in the south or west of the Province, which world. There was genson as any in the World. There was reason to hope that
electric smelting of ores would prove practicable, and this with our abundance
of water poren prone of water power would supply the want
coal and a great future in mining treating the minerals was sure to come,
The salt-water fisheries of Hudson's would prove another extremely valuable
usset, probably not ess that asset, probably not less than those on
the Atlantic or Pacific. The developmen
of these industries and towns would spring up all over New
Ontario. Besides thillage way and branches that would follow, the vourty had excellent waterways, which
vould facilitate communication, and the Hudson's Bay would provide for part o
the year a short route to England

## Cedardale shorthorns

 Markdale, Ont., an Advocate represent (ive had the pleasure of calling on Dr. was shown over his splendid farmCedardule. quartered 24 head of up-to-date Short and Beauty families. The Maylower, Flora exceptionally heavy milkers, as the thick plump and fat sucklings, amply testify,
The stock bull is Royal Trilly flower, by the Miss Ramsden bull, Royal
Standard $=27737=$, hy the Merry Maiden bull, Lord Koyal Trilty is a grand type of moodern
Shorthorn, and is proving a centicnal worth. ${ }^{\text {proving a sire of ex- }}$ There is also a red-
roan yearling bull With an imported, sire that is the making
of a good ene, and another nonths-old, by Markdale Chief $=47369=$,
put of a Beauty dam that
$\qquad$
$\qquad$
$\qquad$
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$\qquad$




 Soven miles from Engerooll. ${ }^{\text {Hen }}$. Crampton, ont. Seven miles from Ingernoll. ${ }^{1 / 2}$.

$\qquad$ BULL Hob ond

## ANININBALE HOLSTEIM HERD





 of other prize
ent shows.
sta
Buill calves, 4 months and under only,
for sale from great dams and greates of sires. Buy young is you wand greates
ont them
from Annandale stok
GEO. RICE, TIIIsonburg, Ont RIVERSIDE HOLSTEINS

 galodonia. RICHARDSON \& SON, Hill and Centre View Holsteins


 all ages. Write quick if you want one. Guar-
antued as reppesented.
P. D. EDE.

## With Cheese at 18\%c. and Butter at 250.

Buy a Holstein Bull
 - a. w. clemons, st. georae, ont Lyndale Holsteins. For Salle A number of bull calves from Paurd of Merit cows, and sired by Berryl Waune
Pancordia, whose four nearest dams have
 MAPLE GROVE HOLSTEIN-FRIESIANS For Sale: Three bull calves, sired by
Lord Wane Mechthilde Calamity, and
all
walburn rivers, Folden's Comers Grove Hill Holsteins - Herd contains 55 heau, in the advanced registry. Our stock bulls have
ail heen backed np by high reord
 GLLENARCHY HOLSTEINS
 a. MACINTYRE, Renfrear PO, and ator
$\qquad$

$\qquad$

Yoaneod
Moisten
BuLL




hero.


SOUTHETDOWITS｜BROAD LEA OXFORDS
For sate 0 as semesin in lamb to the im．
○○エエエコを
 ROBERT MOEWWEN，Bymon．Ontario

## Sheop Breedors＇ Assoctations．


 Lelcester Sheeep Chooce ram and oue lamboe
 Oxford Down Rhoion shorthorr Cattle
 SHROPSHIRES
 －07500xios
 E．F．PARK，Burdessvilto，Ont．
$\qquad$ Holyroad trodul otion itise


Seed Grains and Dorsel Hoin Rams





 DORSET HORN SHEE AMd

 and

## HIDES

SHEEPSKINS，FURS conishmente soilitod．Topphoed
E．T．CARTER \＆CO．，TORONTO IOD Shropshimes 100 On a cotsworad haed to reve．Tren


John Miller，－Brougham，Ont


OUESTIONS AND ANSWERE Miscellaneous．
mechanios ligess．
B contracts to build a barn for A．I sends C to do the job． C bring other men to help him．A pays B all the money，and he，B，does not settle with Wha the others，and B is not wort anything．Can C and the others hold．
for their wages？SUBSCRIBER． for their wages ？SUBSCRIBER，
Ontario． Ans．－They can register and enforce laim of lien on the parcel of land，b been built
cattie dong damage． along the main road，the cattle enter B＇s gate，which is open，and do considerable damage to 13 ＇s garden．Can $B$ collect damages of A，as A and his help tried to gate？$\quad$ 2．Is A responsible if catte jump a fence，and do damage to crops，also along Quebec．
Ans．－1．We think so．
Domestic scibicce courbe 1．How long is it necessary to attend a domestic science school，provided you are successiul in the exams，to wacome
qualified to teach？ 2．About what wages would a science，
teacher expect，and are there schools iń Toronto as good as in Guelph ？
ASPHODEL． Ans．－1．The course is usually one of
two years；but for teachers of experience with a normal－school certificate，one year suffices． already recognized as a succossful teacher
in other lines，should get at least $\$ 600$ in other lines，should get at least $\$ 600$
a year，and in large schools at least． a year
\＄800．
3．We 3．We cannot say where the best school
is located．The Lillian Massey School Toronto；The Macdonald Institute．
Guellh ；Alma College，St．Thomas Ladies＇College，Whitby；Albert College： Belleville，${ }^{\text {are }}$ all qualifed to train
teache：s．The fees vary．You should send for their calendars．It should be
emembered that there are about two hundred certificated teachers now in On－ tario who have not obtained cohools． classes is slow．
S00T－HOUBE UNDER BARY APPBOACB A good many are houses under the driveway．I am going
to build a basement under bern this sum－ her，alld am going to build the root－ appears is how to kieep it dry．What is the best way to roof it？I have been hinking of cement，but how to go about
it is what puzzles me．The cement would bave to be covered with earth，or it
would be too slippery for a team to dould be too－slippery for a team to
draw a load up，also what would you lay draw a load up，also what would you lay
the cement on ？It would have to bo
covered in some way first．What is the est material to way go about it？ENQUIRER． Ans．－This subject has been dealt with
repeatedly in＂The Farmer＇s Advocate，＂ different ideas being described．The root－ house may be built of timber，and the with a roof，high enough to covered over Many have built a concrete arch ex－ tending across the approach，and some ne barn with earth．In extended a considerable distance on each ide the approach，being about 10 feet onger than the approach was wide．This satisfaction．Another plan is to con－ struct a level concrete roof reinforced by steel rails or other metal，and supportted
by posts resting on the floor of the by posts resting on the floor of the
root－house．As there is plenty of the yet for our inquirer to make his decision． we will leave the question open，and will be glad to hear from anybody，who has
built a root－house under his approach giving dimensions，cost，kind and amoount
of material and method of constructiont


 humband wit two phildren，is is a monderful
medioler，it


Shropshilio \＆Cotsisolid Sheep SCOTCH SHORTHORNS and


## down bricht

 Wi Wi GiAPIIT

Lincolns are Boomlag
Mimititi
F．H．NEL

Tamworth Swine and Shorthorn Catt
$\qquad$
 COLWILL BROS．，Nowometlo，Ontart ald Hount Pleasant Herd of Tamworth aid hostaind．A large herd of aholoo pise of

 ninne





## FGive MY Electric belt free



Thake $m y$ Electric Belt for what it will do for you. Wear whie wou sind it a vitalizer, a tonic to your nerves, a rejuvenato of waning vitality. Use it for any atlment whlch drugs have fail ed to oure, and you wdll never cease praising
I claim that I can cure weak men; that I can pump new hife
into wornout bodiles; that I can cure your pains and aches, 11 m ber up your joints, and make y can feel as frisky and vigorous as you ever did in your life. That's claiming a good deal, but i have goo
a good remedy, and know it well enough to take all the risk if you will pay me when you are cured.
No mancan lose on this. If the cure is worth the price, you don't have to pay for it untll you get it. When you are orous manhood; that you havent got an ache or pain in your whole
body, and that you feel better than you ever did in your life, I get paid. body, and that you feel better than you ever did in your life, I get paid.
If you can't say it after using my belt for three month, then give me
back my old belt and I won't ask a cent. All I ask is security while you use it. A short time ago I took a case that I couldn't cure, and I didn't see
why, as I had cured hundreds like it. Anyway, my patlent returned the Belt and sald I hadn't done him any good. He said he thought I had treated him honestly and wanted to pay me the cost of the Belt because traculdn't be used again. I reffeded and told him that I had made a con-
tract to cure tract to
earned.
Dr. Mclaughlin:-
Dear Slr, -I wore your Belt for a Pew days, and must say I could not have
belleved what it would do. I haven't any cold now, no backache, headache, no belleved what it woula do. I haven't any cold now, no backache, headache, no
pain in my legs, nor tired feellig. I have not felt the same for months, and

 It have used your Balt for thre months, I am now free of Rhsumatism.

 It would."-DAVID SHiEis, Cranbrook, Ont.
 haye developed quit a atit in muscie and strenth. I do not desire to urinate so orten, and I, have hac
headache since. My bowels keep regular. Wishing you every success In your grand undertaking."
My belt is easy to use; put it on when you go to bed; you feel the
Elowing heat from it (no sting or burn, as in old style belts), and you
feel the nerves tingle with the new life flowing into them. You get up. in the morning feeling Hike a two-year-old your townever that I have cured. I cast give you the name of a man in
try. This is my twenty-fourth year in your address and let me try. This is my twenty-fourth year in the business of pumping new
vim into wornout humanity, and I've got cures in nearly every town on the ma.p.
If you will come and see me I'll explain it to you. If you can't call,
let me send you my book, full of the things a man finds inspiring to
strength and courage. Free if soul send thi
let me send courage. Free if you send this ad.
strength and courd
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pigs, all from imp. sires and dams Prices reasonab
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5 months ola, sired by Concord Professor and



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QUESTIONS AND ANSWERS. Miscellaneous.
sale of unsound horse
A sells a horse to B lor, a certain sum Horse has a kidney stone, but at time of
snle $B$ never asked $A$ if the horre sale B never asked A if the horse w
that way, and A didn't tell him. that way, and A didn't tell him

## 1. Can B his money ?

2. Is it against the law to sell such without telling the purchaser?

## 2. Generally speaking, no. FBEDNG Cows.

1. What is the best to feed new-milch
cows, with bran, $\$ 1$ per cwt.. middlings cows, with bran, \$1 per cwt.; middinin bushel, to be fed with hay ?
2. Would it pay me to feed meal two cows that are not coming in, that am milking once a day, and on hay
alone, they only giving 5 lbs. of milk each day?
3. Is it advisable to begin to feed meal to a cow before she comes in, and is
better wet or dry?
W. H. B. better wet or W. H. B Ans.-1. The kind of hay-clover
timothy-should be specified, for there timothy-should be specified, for there
a wide difference in the composition
the two. Assuming it is mixed hay, Woukd suggest meal ration of 4 lbs. bra
2 ubs. middlings, 1 th. shorts, 2 lbs. middlings, 1 lb . shorts, 2 lbs. oats;
the oats crushed or soaked. If gool the oats crushed or soaked. It goo.
oil cake can be got for $\$ 30$ to $\$ 35$ a
ton would ton, would advise using 1 to $1 \frac{1}{2}$ lbs. of
it per cow per day in lieu of 2 or 3 lbs. of the meal mixture. Cottonseed meal
would also be excellet. is a Arst-rate milk-producing food
$\qquad$ for the butcher. It certainly are intended
fill pay to feed them 5 or 6 lbs. meal per day; part
of it will come back in the milk, and the balance will go on their backs, making
them ready to dispose of just that muct 3. The best dairymen build up their
cows by feeding a light 2 to 4 lbs. per day uhile dry, thus hav-
ing them in good heart for the Work. We used to be afraid of milk
iover, if the cows were in good condition at calving, but partial milking the first four dass after calving and the air treat-
ment in any case of the ailment has disarmed this fear. We would not feed any
meal, butt a little bran, though, for a Feed it dry to save trouble.
STALLS - MANGRRS-VBNTILATION - BLLO
RTNGS. 1. Is three feet wide enough for an
average-sived cow to stand in? 2. Which is preferable, single or double
stalls? 3. Is a concrete manger advisable, all
hings considered ?
$\qquad$ rapdoor in ceiling, provide enough ven
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

[^0]:    Prince Edward

