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(turn On The RainWhen Ompontynced It

FYOU are a
seen yourcr
of moisture.
Did Did it ever occur to for lack Did it ever occur to you when
the
thingit wouth came what beto whive fine freme field, which water running through yourr
thirsty ground. If this thought never did occur to you just stop and dien frominute-water alwaysthere
-no danger of crop failure, for when you hase pood
land good seed and warm weether all you hand good seed and warm weather all you
need to make a perfect crop is moisture-
wue furnish the poisture and thereis
lutely no fill You believern the supply. can't hel You believe in irrigation-you can't help
itfor it markk the difference berween abso-
lutely sure crops and uncertainty Certainty is elways to be preferredThat being the case it only remains for You to choose the best spot under irrigation
in which to invest your money and mako your home.
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Old John Jones was a Dairyman,
Who set his milk by crock and pan,
Till he figured his loss-
Then John said "Waal,
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## GREAT WHEAT PLAINS ${ }^{0}$ SASKATCHEWAN Ample TIMBER for All Purposes

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Tol XLII
LONDON, ONTARIO, APRIL 11, 1907
No. 759
being cheerfully assisted in the enterprise by the been allowed to get strong foothold. Other Public Works Department of the Ontario by the ment. Mr. A. W. Campbell, Provincial Highways Commissioner, and Deputy Minister of Public porks, has undertaken the very considerable ex his Department is entitled to a full share of th credit
We
We desire, also, to acknowledge the aid o many newspapers throughout the Province which freely assisted by drawing attention through their columns to the spit-log-drag competition. We have reuson, to believe that their co-operation has not been unfruitfu
Although entries for the competition are now
closed, there is no closed, there is no reason why interest should
abate. The fact that over sixty men cided to comply with the rules of our have de have notified us to that effect, is evidence that many others must have been considering the matter, and if the list had remained open longer some of these would have come in. All such are urged to go ahead and construct their drags. Evidence multiplies that the drag is likely to prove an invaluable means of maintaining and improving earth roads, and it is important that this fact shousible demon possible. Again we say, LET US TRY THE
SPLIT-LOG DRAG.

## THE FIGHT WITH WEEDS

For a few months the land has had rest from weeds, but with the change in the season, which came suddenly and rather early, with the delightul renewing of vegetable life, the conflict with these foes begins again. Of all the losses from atural causes wich the larmer has to endur and the like-the till takes first place Who has not been sorely vere at seeing what would have been a manifice corn or root crop lessened one-third or more thick ranks of weeds, breast-high ? Who has not seen (to use an Irishism) a field of peas that could not be seen for weeds? Not only. are there fields, but whole sections of country where spring crops are hidden in June by the bright bloom of mustard. Ox-eye daisy is crowding out. the grass in pasture lands. We heard a farme not long ago telling of a nittean-acre field on rot it had lain in and reseeding itself His attempt by shert tation to clean it was not very hopeful as yet He said he could keep the daisies from seeding but the ground was filled with myriads of seeds, enough of which grew each year to make a full crop. The differences in appearance and manner and season of growth which are observable in weeds are as many, ulmost, as the long list weeds itself, but in one respect all are alike-they are robbers, every one. The nutriment they ex the legitima loss thus occasioned were suffered the enormou human thieves, there would be a very dangerous human thieves, there would be a very dangerous
ferment throughout the country-dangerous for ferment throughout the country-dangerous for
the thieves, we mean. We could wish that there were less complacency in view of what goes continually in vegetable thievery, and less leniency o the rascals that do the mischief.
The conflict with these, while stern and unrelaxing, need not be hopeless. Many farms there are that are practically clean. Some of these have never been allowed to become dirty. Weeds, as they appeared, have been exterminated, and at a mach less annual labor cost than is in-
been allowed to get strong foothold. Other armins, once foul with weeds, have been cleanod tions of our country are noted for their mom from weed pests, and what has been accomplished in these cases is not impossible in others.
Everyone has noticed that the more noxious weeds, such as bindweed, are to be found in patches more or less widespread. A little reasoning' backward will show that a patoh began as a single plant, and that the seed of this plant was probably introduced in seed grain, grass or root seeds. Much can be done to prevent trouble by care in the purchase of seeds. Many a lot of cheap seed has proved dear in the end. Mere dearness, however, does not, of itself, insure freechasing a bushol seeds. We remember once pur chasing a bushel of imported seed oats, which
cost enough, but out of which wild oats were aut or which over a hundred cheap seed should always be viewed with suspicion. It is a good policy, usually, to get seed grain from a clean farm in a good neighborhood Grass and clover seeds should be careftully scanned through a glass, and only the cleanest chosen distinction should, of course, be made between weeds and weeds; some are comparatively harm less, but the seeds of noxious weeds should neven
be sown. be sown.
Some
Sheme weeds will not stand being plowed, others thrive under such treatment; some grow
worst in grass, others in worst in grass, others in ginain, but all suffer importance in weed destruction of a regular rotation, in which no two crops of the same kind except grass, succeed each other, and in which each field in turn is treated to a cultivated crop, can be readily seen. As a matter of observation, it is exactly on farms where such a system prevaill that strong crops, getting the full strength of the ground, can be seen, and where the eye of the pusser-by is not offended by the spectacle of rank weeds overtopping useful grain. The value of a not as fully appreciated as it ought to weeds is this reason, as well as for others, clover ber have a place in every rotation. Persistently. weeds cling to life under adverse conditions as strong clover crop is the death of many of them and weakens those it fails to kill. Besides, when the clover crop is cut at the proper season, the weeds that have escaped are also cut before their is blocked hatured, and propagation by that means weeds remain waiting for the roots of perennial extend themselves. If hay-utting opportunity to. long, seeds of pests present are is delayed too though taken into the bari ware matured, and, tually find their way to the land inere oven petuate themselves.
Of all the crops grown, a corn or moot gives the farmer the best opportunity for crop extermination. Years ago it used to be re harked that large, well-cultivated. fields of roots nvariably indicated clean farms, but as a cleaning crop, corn is the superior even of roots. While hey are equal in the earlier stages, yet later on turnip or may lurk unseen under the shelter of be inspected at any stage while a corn crop can igering specimens destroy growth, and these histles can be killed in Canada has been demonstrated again and again corn, ultivation that ought to be given during The growing time is almost sufficiont of during the business, but if supplemented, after the cor the fill height, by a couple of tours of inspection, hoe in hand-a task which need not take long-the hoe complete. It is not only in the extermination
thie Fabmer's Advocate and Hour Magatine.
The Lending agricultural jousval in this

## HEE WILLIAM WELD COMPANY (Lun

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Aldone-THR PARMER'S ADVOCATE, or
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London, Camada
of the more noxious weeds that a corn crop is useful, but also the destruction of those not
classed as such, for instance, pigweed, foxtail and classed as such, for instance, pigweed, foxtail and other annuals which occur at the same season,
ought not to be overlooked. These though paratively innocuous, are often in such numbers as to form a mat about the stalks of grain, and seriously lessen the yield. The preparation of land before corn is planted brings the soil into fine condition for starting seeds, and during that time, and at each succoeding cultivation, the tiny plantlets of these weed annuals are annihilated in countless myriads. A very important point
regard to the cleaning of land by means of crop of corn or roots, is the fact that the cost o stroyed is more than made up in the increase de the crop which results from such attention.

## A WORD TO THE WISE.

Several people have written to thank us for a copy. They think it will be much appreciated It is a pleasure to furnish the index when we know it is of value, $b$ remind our friends that
they should be careful
the paper complete.
sach half-year's volume
each half-year's volun
ot only save money for our subscribe that it wil the necessity of answering the same questions in the past.

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## OUR MARITIME LETTER

The Provincial Conference in New Brunswick on the question of Forestry, called for the morth of February, and duly convened in the capital of sirous of attending it or invited so to do, could not participate, be productive of some substantial good to the important cause represented. The Government of New Brunswick, at the request, no doubt, of the progressive Surveyor-General, who attended the National Council at Ottawa last year, gave the Conference full recognition, and the Premier and his colleagues were in constant atten dance. Supt. Stewart, President of the Canadian Forestry Association for over a year, who has Forester to take up new and better-paying duties with some Western Lumber concern, represented official forestry there Several professors and umbermen from the neighboring Republic also ttended; and New Brunswick was well to the ront in all the work undertaken.
Forestry should be a great coneern to New Brunswick, entering so largely as it does into her
evenue-bringing resources. Without the taxes ne sort most assiduously it would have been exceedingly difficult long ago to make ends approach each other at all in the Province. Still, it must be said that, unlike some other Governments, that of New Brunswick early awakened to some con-
cern for the better perpetuation of this source of public wealth. Acts were passed long yearce of to effect this, but they were more or less specula tive; the practical only reached the statutebook in these latter days. At the last session of the Provincial Parliament, but one, a public neturn, stated that the Crown Lands of the Province amounted to ten thousand square miles, and that their value was stewdily advancing on acthe increasing demand of lumber everywhere and the increasing demand for it, and a committee of the Executive Council was appointed to examine into and report, under the direction of the Sur-veyor-General, on the surveying and classification
of these lands ; also to describe the character of the lumber upon them; to report upon the growing capabilities of the different species of timber and its accessibility to streams; to examine the water sources, and declare what might be neces sary to their continual flow in dry seasons; to describe the character of the lands, with a view
to their adaptability or non-adaptability to culture, and also to examine and report upon all the licenses already issed to lumbermen. The repor of this Committee has not yet come to hand, but it will, no doubt, greatly influence the course of said above, not only is this interest of areat public value, because of the immense cut of lumber required yearly for Maritime purposes, but the lumber and wood products exported to Great Britain and the southern Republics yearly has long brought into local coffers a fabulous sum of money. Of course, the forest of our sister Prov ince, like all the other Provinces, is gradually diminishing, and this by fires, notwithstanding legal enactments, as well as private exploitation timber at one stroke than all the other vandal axes of the century put together.
It is to be hoped that too much time will preservation policy. We had a great Conference at Ottawa a yeur ago ; everybody brought his most serions consideration to bear on this great national subject. Resolutions which registered the findings of that august body were passed and handed in to the Governemnt. Indeed, Sir Wilfrid and Earl Grey were present, and more deeply interested than any. It was thought that a policy as to our forests, based on these resolutions, ing but the extension of reserves in the West has followed, and it looks not a little as if the powers imagine that their work is done. We really have
no forestry policy. It is not necessary to iterate
opportunities, not merely in a Federal sense but so as they aflect the divisions of the Federati and who knows how to put his ideas of develc National Fertionment into practice. We that the Forester without delay, and the to seek in private service the emoluments the public refused, should be the golden oppor ty offered to the Administration of establish nd equipping a forestry system for Canada, huve had enors all in the worla conviction on this point. let wist interest conviction on this point; let us have the w
before it is too late.
A. E. BURIK

MORE PLEASURE IN EARNING THAN IN POSSESSION.
Material welfare consists not in having en want, or think we want, but in the getting t. The humble home, which, in its possession nishing, represents the thent and its interior furnishing, represents the thought, interest and efpiness to them than the costliest joy and hap pon a prince. The man who builds and furnist home step by step, adding a corpet urnishes then a mantel, and later on a piano now, and home that is a creation of his ambition, builds ject of his pride. With each new touch comes a new thrill of satisfaction. Millionaires delight more in the acquisition than in the possession of wealth as evidenced by the efforts they put forth to get also it. The millionaire is an example to usalso a warning. His wealth is often due to the purpose that fastens money with an intensity of purpose that fastens itself upon him as an incurnot escape. Seeking to do so which he culling the years of youth, maturity and that, churfiner sensibilities have remained dormant age, his of use. His ambition, his appreciation, his efficiency, have centered on money-making, to the partial or total sacrifice of the other faculties of his nature. Late in life, perhaps, he tries broaden out, but finds it very hard. The enthusiasm of youth is gone. He can take interest only in the making of money, and when he gets it, his greatest care is to dispose of it. What monumenless possessions and soul to do live a full-orbed life. Millionaires are and to aries, who, by example, teach us the misery striving after riches and the wisdom of enjoyin fron we have, seeing that more pleasure comes $r$ the culture of a cherished flower-bed or tory or a park.

TIMBER SUPPLIES MEASURABLY NEAR EX HAUSTION.
It is estimated by the authorities at Washing annually forty billions of timber, there are cut the present rate of going the available timber supply in the United States will be exhausted in ifty years. Already American lumbermen and xperts are casting calculating glances at Canada's supply. All this has its lesson for us. Not nly should every Canadian Province adopt a carehu and farsighted timber poricy to conserve our when cut forests and provide for their renewal well to , ive the farmer with a wood-lot will do every acre of useful hardwe day is coming when timber, will be valued not and even the sorter by the hundreds of dollar but going to prove a better investment the shrewdest of us realize to-day The than the wood-lots on their farms will do well to fence them off and keep stock out of them for ten or twelve years at least, till the young growth get.s f light or hilly land, may well consider the acres visability of planting it to wood crops. To encoursage to assist in reafforesting such lands, which in many cases should never have been
cleared, the Ontario Government has established cleared, the Ontario Government has established a tree nursery, in charge of the Forestry Depart
ment, at the Ontario Agricultural College ment, at the Ontario Agricultural College.
Guelph. The Government offers to supply the
charges of transportation and doing the actual Keir stud horse, and had not conceived, a lost ly were thought to be too small. His own work in oonnection with the plantation. Mr. E. prepared for "The Farmer's Advocate", an in the close of the season, mated with Che was, at structive article, setting an in things, the small cost at which seedling the olanting may be obtained in Europe, as compared with American quotations. It will be seen that the Government is incurring no very ruinous expenditure in connection with its free distribution of trees, while the results to Canadian agriculture will be important and large. If you have an rea of rough land, write Mr. Zavitz, and prepare o take advantage of this opportunity. The man fives, be congratulated trees to-day, will, if he quarter of the present century has rolled away.

## HORSES.

DARNLEY AND PRINCE OF WALES. In view of the great interest at present, and
$r$ years past, taken in Clydesdale horses in or years past, taken in Clydesdale horses in
Canada, and the frequent references to the noted sires, Prince of Wales (673), and Darnley (222), day, and to whose prepotent blood so many of
the most notable stallions and mares of the breed the most notable stallions and mares of the breed
their owners are proud to trace the lineage of their stock, it has been thought that jsome reference to the breeding and individual characteristics
of these notable sires would be of special interest of these notable sires would be of special interest
to the Clydesdale fraternity and to farmers generto the Clydesdale fraternity and to farmers gener-
ally. We have been fortunate in securing from a
friend friend the loan of portraits of these two celebrated
horses, that of Prince of Wales being a photograph horses, that of Prince of Wales being a photograph
taken in his old age, and that of Darnley from a painting of him in his prime, und which, like drawn, but the engravings serve to show prett clearly the difference in type of the two horses
which distinctions were so clear-cut which distinctions were so clear-cut that they oc
casionally crop out in their descendants to casionally crop out in their descendants to this
day, and are often referred to as the Darnley or
the Prince of the Prince of Wales type. A photograph from a
painting of Prince of Wales was also sent us, but painting of Prince of Wales was also sent us, but cut, otherwise the portraits would have been more uniform in character as productions of art though we are satisfied that the photograph o tion of the horse than any drawing or painting could be.
Taking the results of the show-yard for the decade 1886 nowing the principal inclusive, as a fair means of knowing the principal factors in modern Clydes
dale-breeding, we find, says an Old Country writer that the great majority, indeed all the most suc cessful sires of that period are easily summarized under six heads: Darnley, Prince of Wales, Lord Erskine, Drumfower Farmer, Old Times and Lord by prize stock at the principal shows in these
vears, there is not a horse which cannot without vears, there is not a horse which cannot without
violence be easily included as of one or other of these families. The Darnley interest, during the period mentioned, is strongest. He himself heads the list of winning sires in 1886, 1887, 1888 and 1889 and in three of these years his son, Macgregor, stands second to him, while not less than four, and as
high as seven, of the successful sires in each of the six years are either his sons or grandsons. This speaks strongly in favor of a high uniformity of excellence in his stock, and it is of im-
portance, therefore, to see of what constituents portance, therefore, to see of
his own pedigree is composed.
Darnley 222 was bred by the late Sir William
Stirling Maxwell, Bart. at his Keir Sind Farm Stirling Maxwell, Bart., at his Keir Stud Farm, in 1872, and was owned by Mr. David Riddell
irom the time he was three years old. He had a vem the time he was three years old. He had a 12 th year, wher he was champion male. Clydesdale at the Centenary Show at Edinburgh. He
died on the 30th September, 1886, aged 14 years. His sire was Conqueror 199, a Kirkcudbright-bred horse, somewhat undersized, and having somewhat defective action behind; in other words, he walked wide behind. He was got by the massive,
big and somewhat " raw "" Clydesdale, Lockfergus hig and somewhat "raw " Clydesdale, Lockfergus
Champion. The dam of Conqueror was a of havay Clydesdale; that is, she gave evidence
of graded up ", from the native st having been "graded up ", from the native appear in the studbook, but we have good reaso
to believe that he was Jack's the Lad 400 . Sh was a well-known mare in her time, and of so
much note that there is to be seen to this day much note that there is to be seen to this day,
in a "bog, in the croft, on the farm of Cul-
ainerie in the parish of Twynholm, a moss oak atigrie, in the parish of Twynholm, a moss oak
which marks her grave. In every way she was ${ }^{1}$ good example of the older race of Galloway hardy, durable constitution. Conqueror 199, her an, was the Dunblane, Doune and Callander pre-
nium horse in 1871: and as Keir Peggy 187, the

## he result was the mated with Conqueror,

 produce, and one of the greatest stallions all her century-Darnley 222 .The characteristics of Darnley's family are well Generally they are well-colored, inclined to be dark rather than light-brown or bay, and dappled, with few white markings, but with almost invariably at least one white foot and a white mark of
some kind or other on the face or forehead. The action of the old horse himself when walking was as near perfection as one could. wish for. He
ook a long, steady step, and got over the ground

Prince of Wales (673)
The Clydesdale champion and progenitor of champions, photographed at $\begin{array}{r}\text { years old. }\end{array}$

Darnley (222)
Himself a champion and the grandsire of the greatest of present-day sires of
champions, Baron's Pride. Reprotuced from a painting of Darnley Reproduced
in his prime.

with marked celerity. His trotting action was moved well behind. His feet his fore feet, but the standard requirements, and his bones were of the best wearing material. He was as clean in He had long pasterns, and, indeed, as it is expressed in Scotland, he was uncommonly it is exvelopment. His weak points were in the development of his forearms, which were somewhat lacking in muscle, and his thighs were also open
to the same objection. He had a splendid forma to the same objection. He had a splendid forma-
tion of shoulder and neck, well-rounded barrel and a good straight back, well-rounded barrel, in his quarters. His head was considered to be

His sire was the
celebrated Sir
Walter Scoted most active, neatest and Clyde 574. Scott 797, time, and possibly of any time. The gaiety of his action is proverbial, and although not horse of the largest size or greatest weight, he
was so evenly-balanced that none wis title to forly-balanced that none could gainsay once, his successful opponent being Barr'e sene send
Williams 326 . Sir Wen Williams 326. Sir Walter Scott is one of the most purely-bred Clydesdales the records of horse-
breeding can boast The dam of General 322, was Maggie, alias
Darling, known locally Darling, known locally as the Waggie, alias Mare, from having been owned first in the West
of Scotland by Mr. Buchane of Scotland by Mr. Buchanan, Wellshot, Cambust
lang.
She was a mare of great weight and
many good. qualities, and because of her relation
to Prince of Wales, her antecedents have given rise to a good deal of controversy. Various theories have been advanced as to her origin; , and the fact that the appearance of Prince of Wales
673, especially about the head, indicated an Eng lish strain in his blood, has doubtless had something to do with the formation of an opinion held in many quarters that both of his grandams
came from the south. On the whole, having came from the south. On the whole, having
heard all the theories that have been advanced regarding the dam of General, and seen the evi dence by which they were supported, the writer is
disposed to attach most importance to the one disposed to attach most importance to the one
which traces her origin to Cumberland, and names her sire as Merry Tom 532. The authority for
this statement this statement was the late Mr. Wilson, farm manager at Wellshot, who purchased the mare on Mearns, Renfrewshire, and was aware at the time of purchase that Mr. Giffen had got her in Dumfries. It may be of. interest in this cornection, as showing the significance of the terms
used in the West of Scotland regarding horses, to remark that Merry Tom himself, by the older breeders in the Glasgow district, was always
called " the English horse that came from Carcalled
The dam of Prince of Wales 673 was named Darling. She was a magnificent, dark-colored mare, with the best of feet and legs, and lived to a good old age, and died at Merryton. She
was bred by Mr. Robert Knox, Foreside, Neilston and was got by Samson, alias Logan's Twin, being thus half-sister to Keir Peggy. Hawkie, her like herself, and was dam of the well-known Old
Times 579. The dam of Darling and Hawkie was the gray mure Kate, which Mr. Knox purchased from Mr. William Giffer, horse dealer, Newton Mearns,
who purchased her in Dumfie. who purchased her in Dumfries. Like the other
grandam of Prince of Wales, various theories have grandam of Prince of Wales, various theories have
been advanced regarding hor antecedents, but nothing certain is known. If she was, as is believed by some, a mare purchased in the Mid-
lands, she was of the same type and character as lands, she was of the same type and character as
some of those which the late Mr. Drew purchased in later years about Derky. Another opinion that is held is that she was bred in Dumfriesshire,
and that her sire was Blyth 79. She was a some and that her sire was blyth 79. She was a somewhat quick-tempered mare, and consequently was
not popular in work, but she bred several firstnot popular
class foals.
Prince
Prince of Wales was a dark-brown horse, with
a white stripe on face : a white stripe on face; the near fore foot and
fetlock and the off hind foot, and fetlock
were white were white, as was also the near hind leg half way up to the hock. His off fore foo
and leg were wholly dark-colored. At the ground and leg were wholly dark-colored. At the ground,
in respect of feet and pasterns, no possible fault could be found with him, and so perfect was he that at these parts he has always been regarded
us a model.
He had broad, clean, flat ws a model. He had broad, clean, flat bones, and consequently his hind legs, were too straight and this was his worst defect. The formation o head were carried wis shoulder was set at the proper angle, and his back was firm, while his ribs were well sprung from the back, but not deep enough, especially be helopèd, and, indeed, the general outline along the top was very pleasing. His head, as we have said, was a little "s sur ""-that is, inclined
to be Roman-nosed; it was of proper length, but to be Roman-nosed; it was of proper length, but not as wide between the eyes as the typical
Clydesdale head. The most striking feature of all in Prince of Wales was his marvellous action, and this was all the more remarkable in view of the straightness of his hocks, which one would
have thought would have been inimical to easy movement. Both at walking and trotting pace the action was perfect. This feature generally characterizes his descendants, and the straight-
ness of hock is sometimes also apparent, accompanied, in not a few cases, by the action called in Scotland " going wide behind. The parental formation of head is also unduly prominent amongst his progeny and their descendants, but
it is a feature which, in many cases, appears less marked as time goes on. The family are, as a rule, characterized by a striking immunity from hereditary disease, and this, combined with their
fine wearing qualities and generally pasy action, has caused them to be highly popular. As evidence of the prepotency of the breeding which they belong, it may be oi intw.ut to point winning progeny in Scetland at , Pride (9122) is strong in the bli his sire, Sir Evertard, being a son
who was by Darnley, while the who was by Darnley, while the
Pride was by Springhill Darnley.
ley (222). Hiawatha, on the othe
in the blood lines of Prince of
in the blood lines of Prince of Wal
Prince Robert, being a son of Prin
Prince Robert, being ${ }^{\text {a }}$ son
The noted sire, Cedric ${ }^{\text {( }}$ (1087),
Tollowav of Alexis. Illinois,
Molloway, of Alexis, Illinois, was a sit
of Wales, as also are the great breedi
(8144) (imp.), owned by Messrs. Henderson \& Charlton, and now in service in O

## MARE DISOWNS FOAL

A reader signing himself "Perplexed" asks for suggestions on the following case of a mare not raising her foals, says "The Farmer's Advc., I Home Journal, of Winnipeg
which has, up to the mare, eight years old, to raise her, up to the last year, invariably failed last spring, heavy in foal and with possession tion of being a bad mother
"In August she dropped a perfectly-formed
colt foal, which lived only for thirty hours. The colt at birth was exceedingly weak and unable seemed incapable of sucking being held to the mare kicker, I was compelled to draw milk from another mare and give it to the foal in the usual way. At first it began to thrive and was able to stand, when it suddenly grew weak and even-
tually died. " My q
She seems to be fond of her foals, but, I suspect is not a milk-giver. age sustenance for foal both before and after birth?"' Somares are peculiar in their disposition culiar. In such animals there seems to be also pe of maternal instinct. Nothing can be done be fore the birth of the foal to affect the disposition of the mane, so whatever measures are adopted maternity is so pronounced that the milk glands are inactive, practically nothing can be done toward getting them to raise their foals, in which cases the sooner the youngsters are found. foster
mothers, the better is their chance of life. Where the mare has some milk, it is best to try to ac-

Clyderd Lachlan [4271].
Clydesdale stallion: dark bay; foaled August 25 th.
1901. Owned by Moses Bock, New l/undee,
custom her to the foal sucking by putting a twitch on her and holding up a leg until she becomes
reconciled to being nursed that these methods will not affect her, the colt should be put upon another mare or upon cow's The digestion is easily a affected; in fact, it is in such a condition that unless it; in fact, it is in of its own mother, there is very apt to be trouble: but some risks have to be taken, and if the foal is smart, it may survive considerable abuse. If,
thereiore, it is possible to get it, feed it for a
day or two on its dam's milk; if not the day or two on its dam's milk; if not, the next
best thing is the milk of another mare not long Toaled, and. if the colt has to bee ied on cow's
milk, it shouldi lee from always from that cow, and, besides, should thrd
diluted with onethird tis and have hrown sugar added at the rate of of a
goodsized teaspooniul to the that The trouble with the foal mentioned above and it prophetbly died of dindigestion agree with it tion of the bowels, due to the milk or inflammatural to it, cither because the mare was not
frosh. or because its digestive system was too "rah to assimilate anything hut its own dam's nanciul not to treding tooch much one should tre very (1) In (1) haw st hay mares inual bthout good the same (Iur the disconned foal until it could hee brought with hran and boiled oats or barley of the


## HACKNEYS SOUND

Nould allusion to the late London Hackney Show fered be complete were not congratulations the extraordinarily satisfactory results whing upon crued from the
horses entered.
When ony inspection of all the 195 examined, and two brood mares out of 78 , becomes a subject for rejoicing amongrst his indeed which becomes intensified when only one compens, tor out of 41 in the barren mare and gelding entry, and but two out of 65 harness horses, fail better results were secured, as only three stan, even out of 35, no mares out of the same number, and three harness ponies out of 32 were rejected. In 12 failed to pass the ordeal, whilst in the but section only six out of 102 were rejected the 0 gross totals, therefore, being 488 passed and 18 reiected, some of the latter being on the grounds
of height. of height

## LIVE STOCK.

WEANING YOUNG PIGS.
loung pigs, like most other animals, suffer considerable injury from being wrenched away ing the rums. All those who speak of weanexact meaning of the process
Let us briefly consider the effects which fine
quently follow the sudden pigs from their dam. In the first por suckling liable to suffer from indigestion owing to they are den change from sow's milk, which is very easily digested, to coarse food, or even to milk of angreat evil, because when they begin pigs is a very it they lose appetite, partake of insufficient from ing, they develop intivg apace and rapidly growbecome thriftless and good for nothing. and soon We frequently hear of young pigs suffering from
convulsive fits, and though these fits have been attributed to various causes, it is is gits have beally agreed
that convulsive fits are indirectly due to that convulsive fits are indirectly due to careless
weaning. Judging by the many questions which are asked regarding lits in young pigs, it is iortunately a pretty general trouble throughout due, in nine cases out of ten, if not be directly to acute indigestion. To put the matter in nutshell, indigestion follows an injudicious methfollow indigestion. From mother's a cruel change, and the wonder is is certainly number of young pigs do not suffer and die of acute indigestion and its attendant evils.
Having seen its importance, we consider how weaning can best be done, for there
is little is little use in railing against an undesirable cona remedy. Suck onings one is prepared to suggest to the food which is set down before the sow, this is generally of a coarse quality, and quite unsuitable for them, and they partake of it very
sparingly, if at all hut if were supplied to the young pigs, they wable food short time learn to eat, and they would then in a much faster than they do when would then grow
tinely on the mother's milk begin to eat at a very early age if oung pigs will food, and let them have sweet, easily-assimilate soon as they teach them how to eat it, and, as be given a small to run about the pen they may with an equal bulk of water, or milk, diluted sim milk or separated milk, which need not be
diluted. The milk may he thickent tion of some shorts or fine bran thened by the addistage such heavy meals as barley meal, corn meat "slow such pig foods as sour milk advisable to slops until young pigs have milk and kitchen
tomed to more digestible foll accustomed to more digestible foods, and wall accus-
digestive organs have become trengthened thy the ugsest of these foods. mithe advantages of teaching young pigs to
cold. for not onselves at an early age are mani-
and they grow rapidly and thrive well. . but it is also a great saving on the sou
when she is the When she is is thus aided to great saving on the sow
With this object in vp a large litter With this ohiect in view. it is not a laad plan to of their pen whole or cracked grain in the litter varly. Whor , heiore the little animals have heo too ing solf Wend and milk for some whecks. It must wer te thrown down in a filthy wheks. It must fies scattered in clean litter, or on plarth or gravel
is most beneficial to their health, helps the de-
velopment of bone and muscle to an amazing exvelopment of bone and muscle to an amazing ex-
tent, and the chewing and slow digestion of whole grain, sparingly fed and slowly picked up, have most beneficial and strengthening effect upon the
digestive apparatus.
There are two ways in There are two ways in which suitable foods
can be given to the young pigs without being can be given to the young pigs without being
gobbled up by the old sow. One way is to feed them while the mother is out for exercise, and the other to place the food in a railed-off corner
of the pen, the railing being so constructed that the young pigs can pass through and reach the
food, whilst the sow is shut out, not being able ood, whilst the sow is shut out, not being able
to pass between the bars. If the first mentioned to pass between the bars. If the first mentioned
plan is adopted, the sow should be let out for exercise morning and evering, so that the youngTroughs for suckling pigs should be shallow, and
not too wide, so that they can reach the food without getting into the trough. It is best, also, to have them only about three feet long, and made of light but tough wood, so that they can
he easily removed from the pen and cleansed after each meal.

REGISTRATION DIFFICULTIES
Editor "The Farmer's Advocate
I noticed your editorial re requirements as to registration in the National Records. I have bean thinking of writing for more light on the have been asked several times lately by men wanting to get business done at the registration office who could not find out the address. When
this new style came in, I was supplied with some this new style came in, I was suppied with some ight us long as they lasted, but now they are
used up, and $I$ have written several times for more, but no attention is paid to my request.
They don't let us know, as the other officers used They don't let us know, as the other offcers insed to do, when thes, and never heard anything from
membership fees
them, so I wrote asking about it, and received a reply stating they had got it all right. But that my copy of the herdbook for this vear yet; permy copy of the herdion printers' hands, but it
haps it is still the phould have been distributed long ago. There are should have been distributed long ago. There are
many who wish to correspond with the registrar's office, and it is almost name and a place of business known to the public, same as the old offfce and secretary had Everyone knew how to address a letter to ou late secretary. Perhaps. if we keep on at them
they will make things a little easier or mo get-atable. Simcoe Co., Ont $\qquad$
The Alberta Farmers' and the Central Alberta Stock-growers' Associations last month infer viewed Mr. Findlay, Minister of Agriculture in th
Province of Alherta, on the matter of establish ment by the Provincial Government of pork-pack ing and beef-canning plants along lines similar to those on which the Government creameries are
operated. In reply, the Minister called attention to the fact that the Province has but recently entered upon the second vear of its existence: tha during the first year it took over and enlarged the creamery system which had heen previousl,
conducter by the Dominion Government: that conducted by the Dominion Government; tha
during the present year it was developing the poultry-raising and fattening industry, and that if this is worked out satisfactorilv. and the farmers gave the support they had pledged to it, the De-
partment might see its way clear to undertake partment might see its way
new enterprises in their interest.

## THE FARM.

A PIONEER FARMERS' INSTITUTE WORKER Mr. John C. Shaw, of Norwich, Oxiord Co., who
has recently returned from lecturing at Farmers, tario, beginning at Toronto, through the Niagura tario, beginning at Toronto, through the Niagura
Peninsula, Middlesex, and finishing in Huron and Bruce, reports that the farmers are in a prosperthe proceeds of the past fow years. In the Niagara District very large returns have been
realized from the production of all kinds of fruit. Other districts are interested in raising grain, dustry, which latter at present is probably receivng more attention than some other lines, on acount of high prices.
Mr. Shaw is a tho Mr. Shaw is a thorough believer in the nobility
and utility of farm life. He is a Canadian, and has high hopes for the future of Canada, and esecially of Ontario. He is one of the first Intitute men in Ontario, being one of three or four
vho organized the first Farmers' Institute of Onpresidont Valancey E. Fuller, and Prof, Thos,

Shaw for its Secretary. Since then he has con-
tinued as a worker, though in a quiet way. inued as a worker, though in a quiet way.
We are also pleased to learn that Mr. Shaw has been a reader of "The Farmer's Advocate" pride the inception in 1866, and has noticed with pride the continued advancement it has made
since the first publication, which was a very small monthly magazine, until now it is the best weekly


## THE LEVELLER AS USED IN Quebec.

For some time I have read with interest the articles written in "The. Farmer's Advocate" in roads. My opinion is that we have leving clay scrapers in this district than the split-log drag although there are some farmers here that use flat piece of timber, with iron on the face, and drawn on the angle. It works all right on ligh will work as well as the one described below. Road-scrapers, as they are called here, are jusi about as plentiful as mowing machines in the
County of Chateauguay, and the only mistake that some people make with them is that they do not use them often enough; to keep clay roads in
good shape, they require sto be scraped always


The Old-fashioned Leveller, with a Seat Added. after rain-as soon as the road is dry enough not improvement on this one is that it can be change to any angle in a few minutes just be slackening a nut. How to Make a Scraper.-Take a good hardwood plank, 7 feet long, 21 inches thick, and 14
inches wide; hew a little oft the lower back edge to allow hew a little off the lower back when the pole is raised, as it puts the plank on the plumb. Bolt on a piece puts firon about of the wide and \& inch thick, onto the bottom face ittle plank; bend the bottom edge of the iron a the edge of the plat, and project it inch bolow 4 wood suitable for a sleigh-pole, but between iron, punch two holes, and boit to back of plank and in the center; leave the ifon lona enough to
go through the pole, punch a hole just above it, and put in a key. Project the pole about one foot past the plank, to allowfor a orace put a piece of hand-iron around the end of pole und back past the iron where it is fastened to the plank, to keep ft from splitting. Get an old piecess tio only the one hall is required. Bend the two ends. punch a hole, and bolcl to the center of plank, and allow the top of circle to rest, agains
the bottom of pole; fasten it to the pole with the bottom of pole; fasten it to the pole with a the nut, it will keep the scraper in any angle de sired. Put a ring on each end. of plink to lift it over bridges or obstruetions. BBolt iaumowing-man
chine seat onto the end of pole. Put the whifletrees on top of pole, just in front of circle. Cut the pole the required length, and the scraper is
finished. The cost of one, without the whiffe finished. The cost
trees, is about $\$ 5.00$.

> trees, is about $\$ 5.00$. Chateauguay Co., Que.
[Note-While appreciating our friend's interest nd trouble in sending the above illustrated article. we deem it well to point out that, the drag he has been using is the very one we have repeatedly en-
oined our readers to construct. The solit-log dras however, is a new thing, and differs from the leveller essentially in time and mainner of use.
The leveller is employed to smooth down the The leveller is employed to smooth down the drag is used to pudde the clay while wet. Whith drag is used to puddle the clay while wet. Which
is the better, we hope to know positively next
fall.-Editor.]

## BARN ROOF CONSTRUCTION.

In a late issue an inquity was made tegarding curved-roofed barns, appended by an editorial note soliciting information from anyone who has had practical experience with same.
Two years ago I built a barn $52 \times 68$ feet, on which I put a roof similar to the one queried arter, and different in some respects, perhaps, than copied by two new barns erected in this vicinity Most everyone who sees it considers it the best dea in barn-roofing yet applied.
The roof is a perfect arc, with a radius of 27 eet, and an apex 18 feet higher than plate.
My barn is a balloon frame, double $2 \times 8$-inch pieces for plates. The 18 rufters, 4 feet epert, are made of 6 -ply, tough, soft elm, $1 \times 3$-inch responding to ralled together, in a form cor strip, beginning with the two inside one . Wh taken out of form, the entife refter has scarctl any tendency to spread, and cam be placed arching
from plate to plate, with the weight resting per from plate to plate, with the weight resting per-
pendicularly at the ends. The four inside strips pendicularly at the ends. The four inside strips
are beveled to rest fat on the plates, to which they are thoroughly spiked. The two outer strips
continue over the plate, and support the eaves. continue over the plate, and support the eavep.
On my noof I saved about 5,000 foet of sheeting, and used $2 x 4$ inch ribs, placed about 21 feet apart, on which I nailed the corrugated roofing. At the peak there should be two strips, from end
to end, of $2 \times 8$-inch pieces, placed edges together to end, of $2 \times 8$-inch pieces, placed edges together anized sheets bent in factory to suit the curro of my roo. inquirer has been told that corrugated ails. Now, it seems to expanding, loosens th style of roofing has the advuntage. The corruge tion allows the shoet, to give ahd tate corruge affecting the nails, whereas if it were fat, with
straight pull, the nails would have to give. straight pul, the nails would have to give, of
course, I cannot tell, what it will be like in hundred years hence, but at present, with my mited experience, $I$ have faith in it; and if I in a few minor points; 1 would make apex of roof $2 \theta$ feet above plates, instead of 18 . Some of the theories that decided me in the
plans I adopted were these An arch is the plans I adopted were these: An arch is the
strongest form of structure. Every part is sup-
ported. Rafters strongest form of structure. Every part is sup-
ported. Rafters made of bent hoops have ail the strength of the grain reinforcing the strensth of the curves. The strength of a shoet of metal is greatly reinforced both by being corrugated and parted to the roof. The extra strength is im-
the roof man the roof more than inch boards, reduced the weight to less than one-third, and saved me, with thousand, $\$ 80$ on my roof. The corrugated sheet are the mosst easily applied of all roofings. Perhaps I have made my answer to the inquiry
longer than necessary, but I trust there and longer than necessary, but I trust there are hints inquirer. In fact, I have for some time been desirous of reciprocating some of the beneite Ih have received from your excellent paper, by giving building.
Middlemex Co., Ont


## FARM FORESTRY.

In the pioneer days the forest was an enemy cost our fathers and forefathers to realize what it the structure we now know as the Ontario furm. These early settlers met an almost unbroken forest, and an early writer, who was qualified to judge, states that this forest contained one of the most valuable masses of timber that ever existed in a region of its size. The work of clearing is still going on, and at present there is probaby not fifteen per cent. of good woodlands
left in the older part of the Province. In thee early days much land was unwisely cleared, and to-day we much land was unwisely cleared, and which would have been almost any district soil wood crops. Many more productive if left for ward to show that the angumts are brought for cood investment on the farm asio wood-lot is Wise and far-sighted farmers are thod-producen question seriously, and we find ang up the treating the wood-lot in a rational manner.
The question we wish to discuss at present not, however, the care of the wood-lot, but the reforestation of lands which are not producing any rental, and are sometimes spoken of as waste lands. The term waste land is frequently criti cised, and we often meet persons who ridicule the statement that old agricultural Ontario contains have, in have, in even the oldest and best parts of the point, are non-productive, or, in other words, waste lands. These lands are of various descriptions, and light as steep hillsides, rocky, thin solls, and light, shifting sandy soils. We find and treatment.
which cannot be cultivaty have a steep hillside which cannot be cultivated, but which would produce trees. A certain field may be so stony, or Light, sendy soil may exist which will not support an annual crop. This condition may exist over areas forming a large proportion of a town-
ship, or may be limited to ship, or may be limited to a few acres on the seems strange to find men to-day clearing off soil which, as soon as cleared, will become unproductive waste land. We meet every season clearing soil. One of the most striking examples in trive tion to such clearing was found last summer. man had just purchased a farm, the greater tion of which was on a limestone ridge. It was considered a cheap farm, and it truly wa
a cheap farm. The previous cleared a field on the limestone formation where here and there the bed-rock cropped out 12 to 15 inches deep. Aiter cest places was from it was soon found that the land was worthless, and it soon fell into a condition where it was neither pasture nor woodland. It had originally been covered with white pine, red oak and mixed the place, I found many young pines, cedars, etc getting a start. In a few years the field would have been covered with tree-growth. Last season field for agricultural purposes, spending the time and money in an operation which, I venture to say, he will regret in less than five years. tler for mistakes in clearing, but the eare is little excuse for us to-day, with the experience of a tontsry to guide us. Arguments may be required
to show the wisdom of protecting the woodlands existing on good agricultural soin, but it surely ing waste lands under perpetual wood crops. If the non-agricultural soils of Ontario were under normal forest conditions, and were managed for perpetual wood-production purposes, this
ince would never need fear a wood famine Is it possible to remedy the mistakine
past? Can waste land be restocked with trees and, most important, can it be done practically? In other words, can the farmer or small landnot make the work prohibitive to the average
owner ? owner? Before discussing the question of
re-planting, it is well to ask of what value will re-planting, it is well to ask of what value will
the plantation be after we make it. Some men are willing to plant trees on waste land, and even on good soil, from a sentimental standpoint. me?" The answer is that any it hoing to have a higher sale valu going to have a higher sale value old plantation of white pine on will certainly add to the value of in the future, but quick-growing species produced on mome wamto lande, mo tha
posts and fue wood may be obtained in about In mos that evergre of our waste lands it will be found planting. From the standpoint of soil condi-
tions, it would black, it would be unwise to plant such species as high demands on the soil. which make rathe suited to this kind of work will be white bine Scotch pine, larch and spruce
The popular idea of spree-planting is that ling from six to fifteen planting, where a sap where a large hole has to be made in used, and


Reforesting Waste Land:
Waste sandy land being planted to White Pine.
place the tree. In waste land planting, the for eighteen a small plant, from ten inches to large number in height, and is able to plant five feet apart each way Trees are planted about about 1,746 trees per acre. Which would require loose sand, without any turf or sod, the tree is planted by the use of a spade. When there is a a piece of turf about fifteen to eightetting out square with a mattock or to eighteen inches ground is stony or rather heavy, the spot should be loosened with the pick. After the soil has spade. Naturally loose, sandy insed with the planted with less labor than heavy soil can be The labor expended in planting an acre five feet. in sandy soil, will vary from two men per day rough soil. A great deal also depay in heavy, quality of the labor, some men being able to do twice as much as others in a day
Another factor in
waste-land planting, is the antion with the cost of ing material. The following is a tablity of planttions taken from 1907 catalogues of of quotaAmerica and Europe who are supplying foresttree planting material. These prices are for season of 1906-07, and are quotations per thouplanting. Better quotations may be had for final 00 and 100,000 lots


Twenty-five-year-old Larch Plantation. $\begin{array}{lccc}\text { Species. } & \text { Age or size. } & \text { North America. } & \\ \text { Europe } \\ \text { Scotch pine ... } & 6 \text { in. to } 10 \text { in. } & \$ 600 & \$ 1\end{array}$ $\begin{array}{llll}\text { Larch ...... .. } 10 \text { in. to } 12 \text { in. } & 1500 & 200 \\ \text { White pine .... } & 6 \text { in. to } 10 \text { in. } & 2000 & 290\end{array}$ When it is understood that from two men can plant an acre of waste land in a dour onably as in Europe, many we olltatained as rea-
an to show the practicabitity of hink, the Government desires to co-operate The Governe Province in waste-land hivice free of cost, but the applicant
the charges of transportation and do
sonable care owner shall also agree to give reaformation regarding this work may be obtained by application to the Forestry Department, On

MORE PRAISE FOR ALFALFA
Editor " The Farmer's
Your subscribers af last year will reme dvocate," what appeared in "The Farmber has-in the estimation of many of us-alfa, whic it is my intention to seed down more of it thi year, as no doubt many others are thinking doing, encouraged by what has been said regardis too good a thing to miss, and I will ber. much surprised if there is not much more of it grann in the future. What I have is a mixture of grasses remuin, but only down in 1903. A few is, of course, the alfalfa. The the clovers, which tained a mixture of the grasses and alfalfa, but the second was practically all alfalfa. Now, al though less of it was sown to the acre than the acre), yet it has given wonderful seven libs. to much so that in the future I will have nothing The first cutting a iittle timothy with it. tons to the acre, and was taken the mid three June. The second, four weeks later middle of tons-one can have an idea how rapidly it grows when I tell you that the same day we were takjoining farm was stacking his first crop the adothy. We could have taken, I suppose, half or two tons more as a third cnop, but it wa when we considead. Apart from the third crop best of hay, well, who wo the acre of the very how much would be added to the grow it, and feeding this every farmer have some? We this cows at this hay now and I estimate for milk timothy. Of course alf as good as two tons of early, when just coming into bloom. thy forebodings that it will all shrink away. ittle in this ways are too fearful of losing better article, saying nothingindful of the much the second or after growth. I the increase in east 90 per cent. of farmers do not cut their a
as Now, as to seeding with alfal
as some of your correspondents, you, us well 25 lbs. of seed to the acre. Now, while sowing not state positively that this is more in cannecessary, I am of the opinion that it is. For pounds to the acre, and while only about seven would no doubt have beeh better, yet I this that less than twenty-five pounds would I think sown, if other fact, no matter how much seed is will be of no use. I would sat favorable, it less seed was sown, and say if one-third that was expended in getting the conditions more that better results would be obtained. In other prepared, will give better results than soil well five pounds on poorly-prepared soil, than twentythan fifty pounds. The reason is plain. If the seeds fall where it would bed, and perchance some them to grow, then no matter second miracle for fall in the same place they would all many seeds good cate. good catch, namely, to have the soil well pul-
verized. How is it to take root and grow on soil as rough seds sometimes found? We need only rough as it is dener to discover the secret of successful seeding.
How carefully all the off, and although for field crops it up or raked possible to do it as felld, yet we can may not be something towards it, and be well rewarded for so doing. Of course, the richer the soil the better, but apart from having it, right, I believe that
many fail to get " a catch" because it is
late in the late in the season. It no doubt should is left too carly as possible, for the reabson that when done as and it âso gets a start before a a dry time cover it
set in. which is fatal. You say Mr
harrow it in this. I am well. I am a little Mr. Editor, to that they would some seeds would be so covered sure ahout this. Land should be fall plowed. It
will then form a firmer sed be fine, but not loose. It is the The soil should spring to the depth of a few inches. After workrow and sow, and then , would roll, then haropposite sow, and then harrow once more the only make the soil firm that rolling wourd not but would also prevent the seed from poing down
too deep.
 I would be slow to plow up a good catch of
either clovers or grasses unless to enrich the soil either clovers or grasses unless to enrich the soil.
It costs time and money to seed down, and so long as you have a good thing, let it stay. I
have a field sown with mixed grasses and clovers firteen years ago, and so long ass it will pasture from two to four cows to the acre I would be
foolish to plow it up. I have about decided to seed down without any other crop. It think what
I lose one way I will gain another . If I lose one way I will gain another. If any of
your readers know of a better way i would like to hear from them. some of the good things in Farm SSicenoe, written
by Joseph E. Wing, Expert Agriculturist, and recognized authority on agriculture, regarding al-
falla and with extracts. ., Speaking of the increased area sown he says: ."And yet with all its spread alfalfagrowing has only just begun in the Eastern
States. One farmer in ten, in favored regions is growing it, and he is growing only half or maybe nine farmers will learn they must or else be crowded out by their nine favored competitors."
Speaking of its advantuges over other forage
 the soil. It is safe to say that allalfa roots penetrate as deep as there is any soil. If the soil is three feet, the roots will penetrate three feet.
If the soil is ten feet deep, the roots will If the soil is ten feet deep, the roots will go
down ten feet, and if the soil is thirty feet deen. down ten feet, and if the soil is thirty feet deep,
the roots will go down thirty feet. I have myself fourd, the roots penetrate away down into hard clay." Speaking of its feed value he says: "The
best of all is that the forage that the alfalfa probest of all is that the forage that the alfalfa pro-
duces is the richest and most palatable that the farmer can grow. The alfalff platant cut at the
 flesh and red blood of the animal. It is what rich in bone. It is the best feed for the baby on the farm, for the baby colt, the baby calf, the baby lamb, pig, and chick. It is good for the baby be
cause the baby must have protein to build its little body, and as it is best for the baby so it is best for the baby's mother. It makes her full of milk and restores her tissues." For working horses he says: "There is no one thing so good as airfira for the working horse. It builds his
wasting muscles, it keeps him strong and healthy He needs much less grain when he can have alfalifa hay, and he is fuller of life and spirit than
when fed on other hay. It is only necessary to When fed on other hay. It is only necessary to
remember that this hay should be fairly matured remember that this hay should be fairly matured
when cut and well cured so that it shall not be when cut and well cured so that it shall not be
mouldy or musty. There ought to be no dust in alfalifa hay. There are no hairs upon alfolla
stems and leaves as there are on clover leaves stems and leaves as there are on clover leaves,
therefore alfalfa hay has no tendency to bestow "heaves" upon horses. For old and hard-worked horses in thin flesh, alfalfa has great restorative powers. For driving horses it should be fed in
moderate amounts else it will make them fat.and soft. Even working teams may be thed fat.and sort. Even working teams may be fed too large
amounts of alfalfa hay. It should be steadily borne in mind that early-cut and well-cured alfalfa hay is nearly as rich, pound for pound, as wheat
bran, so that to feed too large an amount of it is not merely wasteful, but puts an undue strain
on the excretory organs to eliminate the unnecessary food substance from the tissues. The overfeeding of alfalifa hay to horses has, in some loand to raise an outcry against it. To ofiset that, it may be said that the writer has fed no other hay to his horses, both working teams and driving horses, with mares and foals, for many years,
and has yet to observe the first instance and has yet to obsere driving horses, when not
result, save that the used regularly, become soft and easily sweated. "Milking cows fed alfalfa hay as part of their ration, give milk as with no other possible com-
bination." For pigs, it has apparently no equal - An acre of alfalfa pastured with hogs, has made a clear profit of $\$ 25$ in one year."
After enumerating many other of its good qualities, Mr. Wing says : ": One of the very best
of its gifts to man has yet to be related-alfalfa of its gitts to man has yet to be relatod-ailaira
enriches soils. By its very deep roots, it feeds upon the lower depth of the soil and draws up the
stores of fertili ity that stores of fertility that may be down there. After
alfalfa has been grown upon a field for two three four, six years, or more, when the field is broken it will be found to have been enriched beyond planted upon that land will yield wonderfully, and when again it is laid down to alfalfa, that will in
turn grow better than it did before." As to the amount of seed required to the acre, he says: amount of seed required to the acre, he says.
It varies between four and thirty pounds. The
small amount tof seed is sometimes sown when seed small amount of seed is sometimes sown when seed
sidesired from it as it it seeds better when not too
thick. There are 14.480 ono seeds in bushel Iffalfa seed. There are $14,480,000$ seeds in a bushel of
Therefore, to sow half a bushel to the acre, would put 166 seeds to the square foot;
0 sow firteen pounds, would put in 83 seeds. Seing that this is true, it it is more essential to
all that will ever stand, and on rich, doep soils they, will not long endure even that much orowd-
ing." He says spring sowings are usual withing. He says spring sowings are usual withcrop, he recommends one bushel to the acre of of alfalfe barley, with from ten to fifteen pounds bloom, especially in the Western lands iove the covers the land with perennial beauty. It makes to feed the hay. It causes new homes to spring
 Individual Larch trees in twenty-year-old plantation
The trees are about forty teet in height, and
run from six to nine inches in diametor.
up, puts paint on schoolhouses, and sends little up, puts paint on schoolhouses, and sends little
urchins along country lanes with full dinner palls
and miling and smiling faces. It is one of God's richest pilts

to man." | to man. |
| :---: |
| Huron |

uron Co., Ont.
[Note.-The above excellent and well-merited apprc iation of alfalła was received from Mr . ject appeared, but publication of it was deferred respondence previously in hand. In regard to the points raised, we may assure our correspondent that a good harrowing in of the seed will not bury it too deeply. We have seen fine cutches on clay where the seed had been disked in. However, one
good stroke with the spike-tooth harrow is, what good stroke with the spike-tooth harrow is what
we recommend. As to quantity of seed per acre,


Nursery Pine.
White Pine in Government nursery, ready for final planting
there is room for considerable difference of opinion. The point is well taken that good preparaseeding. It is quite true that good over-thiok alfalfa have been secured with 12 or 15 pounds of seed per acre, just as good catches of clover have been grown from 6 pounds of seed per acre,
when all conditions were right. but the safe side, it is well to use 50 or 100 per cent he sale side, it is well to use 50 or 100 per cent.
more than the minimum amount that has produced good results. On soil where only half the seeds survive, there is a three-times better chance
of getting a profitable stand by thick of getting a proitable stand by thick seeding.
The more seed is sown, too, the more nitrogen-
gathering becterla are introduced; and whore alfalfa is being sown for the arst time on a armm,
this may be a rather important point. In the this may be a rather important point.
case of a crop that is so valuable, if secured, and that remains for so many years, it does not pa to be parsimonious with seed; hence we have bee advising of late 20 pounds per acre, though
are well isware that an experianced grower, wh sows his seed on suitable and well-prepared lanc may reduce this, amount somewhat.-Dditor.]

KEEPING A WOOD. LOT SHOULD BE COIIPULSORY
Editor "The Farmer's Advocate ": taking up that very important matter, the protection of our toreste a natural protection of our land and a heritage handed down to us that we should appreciate and protect. It is tor bad that the Government had not taken this mattor up years ago. There is quite a triot of country to the south of us and to the east that would have been better if it had never been cleared up, but held by the Government. It would be : fine asset now. I think that in all timber limit: and wood-lots nothing should be cut but mature and down and aying timber. I would advise the exemption from taxation of at least ten acres to each hundred acres of land, and that the Government furnish spruce or some other lind of tree that would make a wind-break or hedge all around the bush; it would stop the wind from blowing the leaves out of the bush or pling them up
where they are not needed. I think the leapes are a very important facton in the growth of the timber, and spruce would prevent the outside of bush from grassing over, help to protect the
timber; and help to prevent the hot sun from havtimber; and help to prevent the ihot sun from hav-
ing suoch an effect on the timber and drying out ling s suoh
the soil.
I have fifteen acres of woodiand, consisting of maple, beech, rock elm, basssood, white ash and
oakk, and is thick enough on the when oakt, and ir thrik enough on the groater part of
it to be free from grass. I have not fencod it in yet, as there has beem more ground under timber bush is to make mysell tmdependent of a coal shortage; and II I want a ftick of timber, I
know where to got it. I think young timber grows fast enough to pay a fair dividend on the money invested; it is a vory good assot. A good to the independence of each owner country, and I think it would be wisdom to exempt woodots from taxation, and that the Government hoyla passe a law to compel every man to keop at least ten acres to each hundred, and if he selle to timber, that the price or at least, ten ecres where he fails to keep ten minipaily, that
Elgin Co., Ont.
ARCIIE MOVIOAR.

## THE TOLL OF BAD ROADS.

The United States Department of Agriculture has published a bulletin upon the subject, "Cont of Hauling Crops from Farms to Shipping Points," which reveals some surprising facts. A circular ment, brought ane correspondents of the Depart countise brough answers hrom residents in 1,894 of the average load, mules used for hauling such a loed the on hiring a toam for the purpose the .hent taince to e thippine pint the princill ars tance to a shipping-point, the principal farm
products hauled, and the time ordinarily taken for the round trip
Using the information gained from these answers, an expert has prepared tables showing the
cost of haulling the principal ship ing poing. It is shown that nearly s 29, ,
000,000 was spent in oon,000 was spent in a single year to get the corn crop shipped, this itam representing nearly ten
per cont. of the value of the average loen per cont. of the value of the average load carried.
In the case of wheat, the aggrogate cost was nearIn the case of wheat, the aggregate cost was near
ly $\$ 22,000,000$, or a little over 7 per cont. of the value of the load. Taking twelve of the principal products, the aggregate cost of hauling to place of shipment was $\$ 78,000,000$, this maliting
no account of the expense of hauling grain to ${ }_{\text {mill }}^{\text {no }}$ acc
Such a large outlay in a given year has ite own eloquent suggestion of the saving from better
roads or fewer horses. be made in favor of goood better argument could of figures. The statistics indicate, also, the possible saving through the development of freight carrying trolley lines, bringing the farmer ienger-
to the point of shipment to the point of shipment. With an anual natley
of $\$ 78,000,000$ for hauling $\$ 1,500$ oon of $\$ 78,000,000$ for hauling $\$ 1,500,000,000$ worth secured by improvement of transportation facili-
ties would be enormous

## OXFORD COUNTY CORN CULTURE

Editor "The Farmer's Advocate":
The "system of rotation followed by us on our farm is to manure sod in winter, making six piles to each two-horse load, and placing the piles
about 11 rods apart each way. Our land is very about 14 rods apart each way. Our land is very
level, end we prefer putting in piles untll spring, and then, just as soon as the piles are thawed through in the spring, spread at once. When
spread just at this time, wwe find the manure in the very best condition for me man to do rapid and efflient work. If allowed to stand longer, the piles settle and mat down, so that it is then very difficult and slow work for a man to spread me nure. The manure being spread early, a luxuriant growth of grass is started, which is all plowed under worcing of the ground betore planting the corn, 18 th to 25 th of llay, if possible. Our corn is all grown for the sillo, and is sown with the ordinarr grain drill, the rows being 37 inches apart.
We use about a peck land a quarter of corn We use about a peck land a quarter of corn per
acre for seed, and roll the ground as soon as corn is drilled in. (We always use corn for seed that will meture before putting in the silo.) Then, in a few days we give it a good harrowing once each
way before the corn comes up: and after it is way weore the corn comes up, and arter it is
up we the weeder, and then the cultivator, which we cantinue until corn is full-grown. we do not fall plow, but the next spring we roll the
corn stubbe down to make it cover well and plow not too deep. We have never been able to make a decant seed-bed by disking the corn-stubble ground insteadd of plowing in the spring. We are growing Waverly oats, which we find a splendid a good growth of straw which stands up well. We sow 14 bushels per acre on good strong land, and always seed down at the same time, using about 7 pounds red clover, 3 pounds alsike, and 4 or 5
pounds of timothy per acre. The land is then pounds or timothy per acre. The land is then
left in grass for two or three years, when it is again manured and broken up in the same way.
We find alfalfa muling considerable headway, and, after an experience of quite a number of yand, arter an experience of quite a number of years
with it, we are more in favor of it than ever. In fact, we would not think of trying to continue dairying without lucerne and the silo. We believe many have made a failure of alfalfa-growing by
not observing the conditions necessary to success. It requires the strongest, drained land on the farm, and should never be pastured during the firrst season'\& growth.
sown with spring grain the grain sholld

## The End-drive Barns of Halton County.

 its end-drive barns. It it in no way surprisings that Scotch wetters and strong land should form a com-
bination $f$ favorabio to the production of prime beeves but somewhat more remarkable that, in a Province where the sidid-drive barn in all but universal, there
should be one county bullding about nine out of ten hhould be one county building about nine out of ten of
its barna
with the driveway under the peakk of the roo When you visit these barras, and find them modelled on the esame general plan as to io ittrior oconomy, both in
the mows and the basements, you begin to refoct on the mows and the basements, you begin to reflect on
the forco of example which leads one community general adoption of ideas that oother districtst have general adoption of ideas that other dilitricts have there are advantages and disadvantages about nearly
every idea practiced in barn construction, and begin to every idea practiced in barn construction, and begin to
foel it is not safo to dogmatizo very much, but are prepared to content yoursell with a simple citation or prepar
facts.
The end-drive barn has some unmistakable merits,
is decidedly convenient for filling and therbin It is decidedly convenient for elling and threshing the machine forward and filling the emptied grain mows with straw. Sometimes they stack some of it, running it out of a door in the side of the lower pitch or eave
of the root. The granary is usually midway of the of the roof. The granary is usually midwa of the
length, and there is generally one on aech side. In
 troom over the driveray is utilized. The disedvanage, however, is that the ten or twelve feet of depth stowing grain knows, this extra ten feet at the bot os, if illed and compressed by the weight above, would hold as much stufl as the twenty feet next the roof. As an olsset to the advantages of the end-drive
barrn, the eritcolsm must, therefore
atand. that it is bot very economical of mow space. Neither would it appear to be very convenlent for
fork track, although cross tracks in Cork track, although crost tracks in
seem to give good aatistaction. seem to, give good gatisfaction.
homever it just the thing, the the to
hithed above the mow to be filled, an
 mint be slid along
,
was driven 'round to some seven or eight barns in what
is known as the "'S is known as the "Scotch Block" in Esquesing (pro nounced Eequeezing) township. The "Scotch Block" settled almost exclusively by people miles in extent Cakes, mostly Lowlanders. It is anaid that only on Irishman was, permitted to rear his family in this It is favored by nature as well as by man food fllow. county town of Halton, is noted for the excellent
pressed brick manu pressed brick manufactured nearby, and the modern brick structures; some almost mansion-like pressedspacious elogance. The land, which about the theif quite heavy, becomes less refractory as you drive a few piles north into the pine country. The sign of the pine to-day is the stump fence, miles upon miles of
which may still be seen. There are also not and snake-rail fences, though these are being straightened in some cases, and in others displaced by wire. slopes, which in summer grow splendid crops gentle clover, which in summer grow splendid crops of grain, way here about thirty to forty bushels of fall wheat to the acre, while the yields of peas recorded leave no croop, now that the bug has are going back into this in disgust. It would hardly be correct to pay theld corn is grown extensively as yet, though silos stretch their open mouths to heaven here and there, and those of the silo idea. The nature of the soil andists amount of dairying carried on by many farmers is the sponsible for the fact that mangels are farmers is re-
siderably instead of considerably instead of turnips. As for the cattle, we
found some stables of capital Pound some stables of capital exporters, but were told
that the raising of handy-weight butchers' stock is car-
 tention to the is room in Ontario for much in ano
tome demand Them topography of this district is worthy of note.

thin, while from 20 to 25 pounds of lucerne should be sown per acre, Our land is not very heavy
and the ordinary implements will thoroughly pul and the ordinary implements will thoroughly pul-
verize the soil. Thre-horse plows and cultivators are beginning to be used in this sectiontive
Oxford Co., Ont.
JOHN MCKEE.

CORNER POSTS
Could you bell me a thorough method of settension that comes upon them, without using stone or cement, as stone and gravel are very in


Ans- - Place an anchor post eight or ten feet and the first regular post wean the corner poot the anchor post, a stout brece should reach near the top of the corner posit, and a wire twisted tight and paralifor to the brace will keep corner post and anchor post snug against the
ends of the brace. Inside the corner post, fust below the level of the ground, a piece of plank mey be spiked, and another near the bottom on For a locality
accompanying cut where stone is available, the Co. subseriber cut described in in "The method a Parmer's Pdrth cate "of May, 1900, as one which he found post. In planting, keep the brace pole corize tal. Put a four-foot post through ring lower end of brace rod, 24 feet below ground, and load with stone. Bore the hole for brace rod in the end post somewhat nearer to the side on whic the fence wire will be put, and use a heavy
washer.

FORMALIM FOR SMUT IN GRAIN. Three different lines of treatiment have bee grain, viz., hot-water, bluestone, and of seed Expert opinion has now settled upon formalin t $t$ biz of anl, and of the two ways of applying , viz., sprinkling and immersion, the former is is very simple. Spread the grain out on the bod ooor, and sprinkle till quite moist with a soluless than a pint) in thirty-two pound is a little ons of water. Shovel over a few times anplyalthe solution while the shovelling is going on When all is well dampened, shovel the graing, on. a conical heap and cover, with old blankets for and spread the grain out to dry, stirring casionally. It is better to mix each time just nough to treat the grain that can be sown with-
Anter treatment, keep the days. in three days. After treatment, keep the grain or spores in which syutty seed has been conained.
bluestone well to remember that either formalin or theestone used 'too strong weakens the vitality
the
kernel. In 1905 a subscriber rep used three-quarters of a pint of formalin in inving gallons of water to treat seed wheat, with the
result that he had to sow his feld according to directions, the formalin treatmensed practically harmless to the seed . ireatment tion of smut represents an item that will hand the precaution. A pound of formalin trouble of about 75 cents, and procurable Yormalin, costing will, accorring, to Dr. Fletcher, at any drug store,
els seec oats, or 32 of wheat.

## PROFIT IN THE WOOD-LOT.

Editor "The Farmer's Advocato
I have a wood-lot of forty acres of high land on high land, of maple, oak and ironwood. I the swamp land is ash, elm, cedar. It is thicl of this high land, and thin for fuel. serving my bush to provide future fuel and other personal requiraments. I presume the land would
be worth $\$ 500$ under culture ; it pays to keep wood-lot for fue and manufacturing maple syrup. I think it or preserving the wood-loots wand from taxation were compelled to wood-lots, providing parties wood-lots.

Milton lies just east and runs north to Georgian Bay, the western winds. A mile or so north a little trom
tude of the latithe C.P.R. approaches from gap or pass through which The south side of this gap is west by a gentle grade. here, out of the clay banks below the limestone escarpment, is where the brick works are situated. A
short distance north of the appears, and under ite brow lies prosperous Esquesing township. It will not be out of place to note that tario is stowed snugly away under the district of ontario is stowed snugly away under the shelter of this
same elevation of land.

But we have digressed. Let us return to the sub-
ject, and describe briefly the barns visited pausing jus for a moment to note a few worthy features commo to most or all. In the stone or wooden basement, as space across the be, there was always found a large times half the enclosed area. It is called locally stable barnyard. Trampling It is called locally and bedded besides with straw, were cows, young catt, by themsel the latter generally separated off in a part across the middle The animals were fed from a rack racks. The central rack seems handier, as it it leaves bure, chance to drive through while hauling out ma consisting chiefly arves to partition the yard. The feed small doors opening on each side pushed down through above. At some convenient point the threshng floo e found , spring, windmill, or hydraulic ram, would un loose day trough or open tank. The young stoc that they do better this way than genalled opinlon is elp to watered with very little trouble. They are On soep the manure from heating
and north, adjoins the outside yand, sheltered on west thus be allowed at times the bepene and stock may pen air. Stalled cattle are turned of sunshine and varnyard to water, and left out for a time-the cows
not be bettor loose, like the young cattl.
and stanchioned when eating their meal.
The first call was at the farm of Mr. W. J. Cot-
trelle, whose $56 \times 80$-ft. stone-basement barn was built a year ago last summer, after an inspection of many
barns, far and near. A commendable feature is that the feed room is in the center of the basement, instead
of being near one end, as is the case in many endof being near one end, as is the case in many end-
drives. Across the east end is a row of box stalls; west of that, the yard where the cattle are kept loose,
all except the feeding steers, which are only turned out to water. Tile, through the walls near the top, are
depended on for ventilation. There is separate housing for pigs and sheep; also a sunny poultry-house, 50x12
(t., with perches at the back, and plenty of window t., with perches at the back, and plenty of window
apace in front.

The next call- and dinner-was at the chisholm
homestead, whero in 1891
Mr. Thos



 on the dorats, there was no paint ysed, atil the rese
being oili-ninised. The effect of some of the combinasuggests the wisdom of freer use of our Canadian hand The barn stands north-east and south-west, the ap proach being at the north-east end. [The concessions
in this township do not square with the cardinal point of the compass.]. The size is $56 \times 96$; there being on
each side of the 14-foot threshing floor four mows 21 each side of the 14 -foot threshing floor four mows 21
eet wide and 20 feet long; also one mow 16 feet long. i building again, Mr. Chisholm would have this one
20 feet, making his barn $58 \times 100$, which now seems to be the standard dimension in the district. Under the middle mow on each side is a granary, $20 \times 21 \times 8$. Three
years ago both granaries were filled from the produce $f$ the hundred-acre farm.
The frame of this barn is its distinguishing feature.
t was at one time patented, though the patent has Tong since expired, and has not been renewed. To be
on the safe side, however, neighbors avoided copying on the safe side, however, neighhors avoided copying
too closely. The roof hangs principally on the purline plates. These are supported by short purline posts
standing on the collar beams, and inclined so that the cops of the posts are two or three feet nearer the middle of the barn than are the botcoms. Under the
collar beams, where the short posts rest on them, are the long purline posts extending to the floor. The short posts above are lightly braced on the inside,
brace, post and collar bearm forming a sort of brace, post and collar beam forming a sort of the
shaped triangle. The root is a single pitch, but the rafters are in two pieces, the lower ones being notched at their upper ends so as to hang on the purlines.
At the other end they are notched to hold the lower plate from spreading. There are practically no timbers
that interfere with mowing the grain. The several mows are divided from each other by the outer posts, the purline posts, the inner row of posts flanking the
threshing floor; by the collar beam connecting the tops of these posts; by the short purline-post brace, and by of these posts; by the short purline-post brace, and by
a longer brace running from near the foot of the main
furline post to a noint over thalf way up the inner a
purline post to a point over half way up the inner
post. The only timber between threshing floor and
and mows is an overlay beam connecting the inner row of
posts at a height of 14 feet from the floor. In each outer bent (the bents, of course, extend from end to
end) are two horizontal beams between the plates and sills, and each post is braced on both sides by a tim ber running from the sill to point midway the height
of the post. It will thus be seen that there are few timbers in this barn, and most of these are light. One
might be afraid it was not strong enough, but having stood the test of over twenty-five years, its owners be
lieve it is well and economically framed. The barn has a wooden basement, because, when
huith, wood was cheaper than stone. To Tday Mr.
Chisholm is well pleased with his stabling, and by no Chisholm is well pleased walh hare wood rather than
means sorry that the walls are
masonry. On entering we were struck, as one usually masonry. On entering we were struck, as ane
is in a wooden builiding, with the genial brightness and
dryness, in contrast to the gray chill of the ordinary stone stable. Of course, there are a good many
windows in the Chisholm barn, and that has something windows in the Chisholm barn, and that has some
to do with the pleasantness of the atmosphere. Every
10 feet, except where doors interfere, are windows of twelve $10 \times 14$-inch panes, the sashes of which shove past
each other. The insulation consists of but two plies each other. The insulation consists and we were assured
of boards, with no paper between, and
it seldom freezes much in the stables. seldom freezes much in the stables.
In the south-west end of this basement is the $50 \times 56-$
stable barnyard, the floor being three feet lower
t. It. stable arnyard, the Noor Diving it transversely is
than that of the stables. Diver
a five-foot straw rack, boarded up loosely clear to the
ceiling. At each end of the rack is a door through Which the far compartment is reached. Four 9 -foot
louble doors in the side walls permit wagon or sleigh out drawn straight through each pen when hauling
out manure. The animals are watered in troughs,
(illed by hand-pumping from shallow wells. In this

mmodate 30 head. Last year and the year before from the fact that the joists a
cattle were kept in one part, fed on clover hay and only about 18 inches apart
In the forth corner is is ane in, one month on grass. it the horse stable, 00 feet long, with door into stable barnyard. Behind the horses is a cement floor, but
they stand on planks laid on ashes packed on clayd There used to be a similar floor behind the horses, and plank taken up after lying there 20 years were still within the driverway Under the threshing floor, just stone walls. In the east corner is a hox stall. Next to it is the cow stable, with the windows opening towards the south-east, and the door opening into the
stable barnyard. The cow stable accommodates eight head of grade Shorthorns, and has a cement floor with a plain slope from gutter back to wall. There is a
drainage of six inches towards the yard. Between the horse and cow stables are some calf or cow boxes. at threshing for the last three years, and the plan is
well liked well liked
feeding. W. Murray's barn is designed chiely for cattlebarn, with 2 -foot walls. The main barn is 100x5 feet, with a 14 -foot drive-floor, and five mows $20 \times 21$
feet. At each end is a 30x24-ft, these is closed in for horse stabling, and one open for
stock to run under. stock to run under. Here, in the sheltered open yard,
cattle are allowed out for sunshine and fresh the enclosed stable barnyard is a water trough supplied by a spring, where the feeding steers are let out
daily for water. The straw used was cut at threshing, daily for water. The straw used was cut at threshing,
but the herdsman, Mr. J. Adams, complains that cut straw is hard to handle. In addition to quite a bunch
of store cattle, there was a fine stable of 15 exportors stall-feeding, to go off about April 1st. They were re ceiving about 3 pounds of clover hay apiece twice a
day, together with a mixture of ensilage and chaff, half and half. The meal ration was three to four pounds of mixed meal apiece three times a day. A few
mangels are also fed. Then there were some 16 steers being run through to go on grass. Mr. Murray thinks being run through to go on grass.
this the cheapest way to finish them

Another fine homestead, fine barn and fine bunch of cattle were seen on the neighboring farm, owned by
John Sproat, who farms 400 acres of land; and bears the reputation of being the richest farmer in the township. His barn is a stone basement. $108 \times 56$; the walls
being 22 inches thick and 10 feet high being 22 inches thick and 10 feet high1. The posts protected by annex sheds. There is a stable barnyard 54 x 56 , on the same principle as in the Chisholm barn. Here is a spring-fed watering trough. There was also
a silo, $12 \times 30$ feet, for, like his neighbor, Mr. Sproat is a strong believer in the econoray of silage as a feed and crop. His cattle are fed the same mixture of silage and chaff, and the same meal as Mr. Murray's.
Up in the second story our attention was called to three iron rods across the center of the barn, to keep three iron rods across the center of the barn, to keep
the plates from spreading. It seems that this is a difficulty met with in many of the end-drives. However, it is easily overcome by means of these rods,
which have a thread in the center, and may be tightwhich have a thread in the center, and may be tight
ened at will. In addition to the main barn is a $54 \times 46$-ft. brick basement horse stable and sheep shed. The sheep pen is $30 \times 446$ feet. The horse stable sas a cement floor, with planks laid under the horses. Last
of all, a drive house and implement shed $75 \times 24$ feet, of all, a drive house and implement shed $75 \times 24$ feet,
a building which on too many farms is still conspicuous by its absence.

By way of variety, a double-side-drive stone-baserent barn was visited on the farm of John F. Brown-
ridge. It is $54 x 72$ feet, besides a cow shed $70 \times 30$ feet. Within the barn proper is the invariable manure filled by a hydraulic ram, which has given excellent satisfaction for the last ten years, and not till this
winter has it required a new plunger. Besides a number of fine horses, this farm supports a herd of about two dozen dairy cows, cream being shipped to Toronto three times a week; price, 90c. per gallon for cream testing $32 \%$ butter-fat. At the time of our visit the to 32 gallons.

A barn which appeared to be the talk of the neigh-
orhood, on account of its expensive finish and the large amount of fine heavy timber used in its construction, was that of John Wright. Unfortunately, Mr.
Wright was ill, so that we were unable to obtain such exact particulars as desired. It is about 100 feet
long, and is a side-drive, with two approaches. long, and of the basel. nt is plastered inside. In the
stone wall of
north-west end is the s ble barnyard, containing horses on the far side of the central fesd rack, and cattle on is a horse stable, with a box stall at the end; then
a row of stalls for steers, and then a row of cow stalls a row of stalls for steers, and then a row of cow stalls
with two box stalls at the end. Water is kept before the cattle, supplied by a cistern under one of the ap--
proaches, the cistern being filled by a windmill. The cistern is very handy for threshing. The stable is lighted by numerous large double windows of 4 panes

A novel idea in approaches has been employed in the Efx 100 ft . end-drive of W. H. Kerr. His barn is buit with one end towards a small hill, whence he basement is of the usual style, and above that is the threshing floor and mows. But then, instead of haul ing his grain in on this level, he has another foor 14
feet above the threshing floor, corresponding to what would be an overlay in the ordinary barr. From the end of this barn towards the hill he drives in and
pitches off his load without the necessity of using pitches off his load without the necessity a square
rack lifter. At this barn we were shown a cement silo, 28 feet deep, divided into two parts $8 \times 10$ feet each. The walls are 16 inchen thick at the bot-
tom, tapering to a foot at the top. Plastered on the tom, tapering to a foot at the top. Plastered
inside, and with the corners bevelled oif, it keeps the silage in excellent shape, except for a very slight waste beside the wooden door frame.
The last barn of all was the new one built by W ,
Elliott. It is $120 \times 56$ feet, with 20 ft . posts, and doee Elliott. It is $120 \times 56$ feet, with 20 ft. posts, and does not differ essentially in its layout from others ach
scribed. The cow stable and horse stable face each other, the manure doors opening into the yard. At the far end of the stable barnyard, and aloog one side
of it, is a row of box stalls for horses or cattle. Water is kept in a trough in the yard. The root of this barn is of corrugated iron. The material for the roof of the barn, $120 \times 56$ feet, and a shed, $60 \times 24$ feet, cost $\$ 600$; and eight men working for a week, at wages
ranging from $\$ 1.25$ to $\$ 2$ per day, completed the job. ranging from $\$ 1.25$ to $\$ 2$
at a total cost of $\$ 700$,

## THE DAIRY

## BREED OF COWS.

I have been reuding with great interest the records of different herds of Holstein-Friesian cows, which are now so highly spoken of. But we are not told the cost of production. I was duce buer th lhe Holsteins? Was duce butcer-fiat at less cost had ten mised. It is proich wo $\mathbf{3 . 3 6 0}$ pounds butter. worth 22 cents per pound delivered in Toronto. Considering we have frame stables no sflo, no ice, cows have to go about 40 rods for water at a lake, expect them to find enough in the pasture field, with a little oat chop at milking time, would you advise me to change to Holsteine?
York Co., Ont. We certainly would not advise disposing o such a herd to substitute one of another breed. As for the records of Holstein herds, we may fairly say, without trenching upon the dangerous
realms of controversial ground, that Holsteins cannot make milk out of nothing any more than can any other breed. Their strong bid for popu-
larity is due to the fact that they are able larity is due to the fact that they are able to
utilize large quantities of food per cow, converting this raw material economically into milk. That they can do this so succossinully is due to their strong constitutions, and the fact that they have for centuries been bred for the ultimate object and
test of all breods-utility. At the same time, it test of all breods-utility. At the same time, it
is worth noting here that their present popularity is worth noting hare that their present popularity Dutch breed. When a breed of stock becomes so
popular that anything goes, too few male calves popular that anything goes, too few male calves
are castrated, and the standard of excellence is liable to deteriorate. Probably there is less danger of the Holstein breed suffering in thi way than has been the case with some other races
of live stock; but, nevertheless, the breeders of of live stock; but, nevertheless, the breeders of
other classes of duiry stock have no reason to envy the fanciers of the black-and-whites their present era of popular favor in Canada. Let the man with a good cow stick to her, and him with
a choice herd netain it, and, by breeding and selection, make it better.
We trust
Wuery trust the point of our correspondent's query may not be lost. Let the advocates of their favorites, that it is not production per cow so much as profit per acre that counts with the
business farmer. Most figures of herd production are too superficial to be really instructive. We have often wished contributors would go more deeply into the great problem, cost of production
and net profit per acre.-Editor.] and net profit per acre.-Editor.]
I am much pleased with the moral tone of must not be overlooked in a paper that is coming into our homes every week. While we are bending every energy to make a success of our farm operations, even though we do make a sucneglect to cultivate the moral part of those who are to conduct these operations after we are to give up the fight.

TESTIMG COWS: MECESSITY FOR MORE THOROUGHNESS.
In testing cows, it is well at this time to draw
attention to the necessity for more thoroughness importance to be very hazy conceptions of the ing by the choroughness in testing cows, judgconsider sufficient methods different people weighs the milk rach testing. One man says he then tests one day's milk for butter-fat month, and plies that by the total amount of milk man will weigh the milk for two or three days week, and take their average from that for week or even a month. Another plan which is owner weigh his own milk official is to let the watches the cow for two milk, and the inspector periods during the year, and from this he is
Tho endorse tro work of the whole year.
horoughly and reliably, we will have been made insufficient and reliably, we will at once see how ways of testing., While the saying is " nothing talks like figures, ' it is just as well to remennber nothing lies like figures," and in no true, that more true than in making cow tests when the on insufficient data. Such or estimates and based be very misleading, as cows vary in quantity of milk greatly from day to day, and even more so in the percentage

Taking, then, our figures from the most thor ough and reliable tests ever made of a cow,
Colantha 4th's Johanna, that has to the world's record for a seven, a thirty and sixty-day test, during all of which time every and some of the time there were by a supervisor, watch the work, we find in the report of three to seven-day period that upon one day she gave 100.8 pounds milk, 3.96 per cent. fat, 3.996 pounds fat; on another day, 89.8 pounds milh,
5.12 per cent. fat, 4.594 pounds fat; still another duy, 89.8 pounds milk, 3.95 per cent. fat, 3.543 wounds fat. This variation is all in one week's of milk and per cent. of fat greatly in pounds days she gave exactly the same pounds on tw but on those days she varied a good deal in percentage and total fat.
variation in the averuge per we find also a great 7 -day period. One week during this time each averaged 4.40 per cent. fat, another week she There is even a difierence in her average fat. cent. of fat for her thirty and sixty average per
We find that periods We find that for her thirty-day period the average is 3.86 per cent., while the average for sixty days veraged 5.7 per cent., and on that day day she 96 pounds milk.
being done, it would make a big difference whin was the average was the lowest or highest perionether nstance, this cow gave, in sixty days, 5,326 . pounds milk, with an average of 3.91 per cent at, making a total of 208.398 pounds fat. Now, highest per cent. of fat for one day wilk by her have over 270 pounds fat for the sixty would difference of over 60 pounds.
her highest per cent. of fat molk for sixty days by 4.40, we would have 234 pounds fat; while if is averaged her total by the lowest average for a week, 3.67, we would have a little over 195
pounds of fat, a difference of 39 pounds When we apply such methods of testing the work of such great cows, we see how ridicuexceptional test, either, but all cows show not an variation. Take the record of the cow great Rattler

Best
Hest
lene-day
two-day
record
record
Lowest two-day recora,
Best seven-day record

|  | 120. |  | 3.68 | 5.8345 |
| :--- | :--- | :--- | :--- | :--- | :--- |


This test was made the sec
be doing about regular wo
Another cow that has been
days, made for one week 4
the average or thirty days was
when every iniking was weighoch
tested
tested where is just as much variation in cow instance, we bought a cow, and although she had been milking a considerable time, we thought we was. We tested her what her percentage of fat averaged 5.2 per cent. fat, and another day she great deal of variation in But, while there is a each week, there is not so much in of fat during of fat. For instance, the cow Rose Rattler. Al-
though she was though she was tested for over four weeks, she for not vary one pound in total pounds of fat in per cent. she gave the most milk the lowest some days will test the highest on the days when she gives the most milk, but they do not general average the highest for a week when they are All this goes to show that if we want to test celiability with any regard to its authenticity and gives. If we hant to weigh all the milk she we have to test a portion of each milking of fat, if we want to make a test really official, and visor. The only to be witingessed by the supervised. at all is that it would be a the test superhonesty, as we see that a cow varies so much from day to day that the supervisor can much and, for the supervisor to saw the cow milked ness of a month's record when he to the correc nessed a few days' milk, is simply putting a pre mium on dishonesty ; that is, if there is crooked and giving that much more that crooked work reliability. But when such work is practiced course, people will soon cease to place any conif testing should be thor therefore necessary that the puhlic mind. Have either private tests upon real official tests, so that all may know just what idence there is as to its reliability. GEO. RICE.
Offord Co., Ont.


Peer's Surprise 144248


BETTER KEEP ONE COW LESS

## I "The Farmer's Advocate"

and every man who keeps tester eleven years ago As an example, I had a cow I called have one cow," but, after testing a year, I found she was the poorest one. Weighing each cow's milk three times a month with spring balance, recording the weight and sampling wilt take about a quarter of a minute per cow per day. Testing once a month
the composite samples, will take ono-hal tor hour, according to number of samples and size
of tester. of tester. $\frac{1}{\text { I have weighed }}$ I have weighed each cow's milk daily, but
think now three times a month is sulfeint think now three times a month is sufficient. To cows, testing is is more important than to any his
else for else, for good feed and care cost money.
keep one cow less, and put the time taken to care
for it into testing, the keep one cow less, and put the time taken to care
for it into testing the balance of the herd. I also
think the factorymen who think the factorymen who pay for herdilk i also
test would have less dissatisiaction among the test would have less dissatisfaction among their
patrons if the patrons all used the tester often: or it into testing the balance of the herd. I care nomically fattened for veal by allowing them a
think the factorymen who pay for milk by the ause and a hard milker or a kicker may be
test would have less dissatisfaction among their doded for that purpose, and may fatten half a
年rons if the patrons all used the tester often; the albove in a seatemon if she is agreeable, yet
atd, in case there was any kick, the patrons ing calves by hand gives useful pointers on feedhanlsiparator they were kicking about. Then, ing calves by hand. gives useful pointers on feed-


TAKE LESS TIME LIGHTING THEIR PIPES Editor "The Farmer's Advocate
years. I cannot see that it of my cows for si time. I think two minutes extr any appreciable would be excessive; so, with thirty cows and thre the thirty; this make two minutes extra on smoking in the stable, but this is much less time day. My men study the their pipes during the onger than this, and that is what I want, much cortainly makes them interested, and they onstantly trying to get better results. week, and, by studying milk sheets and deliveries to the man to whom we sell the milk, it gives me a good check. If there is a falling off in any so they do, too. I think ten per cent. my men in results, even by those who give good care but do not weigh, is a conservative estimate.
Jacques Cartier, Que.
F. E. CAME.

FEEDING CALVES BY HAND.
Whole milk during for veal sometimes receive weeks milk during the first six, eight or ten but eight them on such weeks is a long time to keep often the milk would yield $a$ better return if manufactured into cheese or butter, because we mum take it that 10 cents per gallon is the maxi ing labor, etc when turned into veal consideration, from milk nal of the Board of Agriculture for the jour f young care has to be exercised in the feeding of young calves during the first few weeks of maximum rate in a minimum time wight at a has frequently noticed that a calf drinks writer much during the first day or two of its
life, unless the life, unless the quan-
tity is regulated the is regulated;
then, about the third day it turns sickly, scours, and practical-
ly refuses more ly refuses more milk
for a day or two This gorging of the calf's stomach with milk during the first
day or two, or even day or two, or even
when the calf is older, seems to bring on conducted $\begin{aligned} & \text { experiment }\end{aligned}$ showed that a grade Shorthorn calf, fed hew milk three times Consumed 632 days, 12 pounds in weight week, 13 pounds the first
second founds the third week, and 21 pounds. weighing 159 pounds ing 632 pounds milk n this case, 9 pounds of milk gave 1 pound Three gallons per day is as much us a calf can comfortably take at a month old, and in all cases
the milk should be drawn from the mother, if at all possible freshly before, if it looks at all sickly to scour, or even tablespoonful of castor oil in in warm it receive a meal heatment, the calf will often milk. With complications but if allowed to run on unchecked An error in diet is set in which will prove fatal disease in The important point is to check cause and requires small calf has only a small stomach but often, if we are quantities of milk at a time It is certainly not advisable to foed nature's way twice a day during the first month ar calf only as is sometimes dong the first month or six weeks of course, as a rule, calves are most ecothe alove statement gives useful pointers on feedFor a iull repport of the year's record of the
great Jersey cow, Peer's Surprise, illustrated on
this pace see April

APRIL 11, 1907
IMPROVING A DAIRY HERD
Editur Pye Farmers orecong of the dairy cow is
The systenatic breding
a subject that should be of considerahle interest a subject that should be of consideratie interest
to the general farmer in Canada. The high prices reoeived for butter and cheese during the
past season, and the prospect that the business will be equally prosperous for another year, should ine an incentive to ase thry avainate no neans for
increasing the protits.
mean that we should increase the number of cows in our herds. In fact, it would more often be iound wiser to dispose or several. The chie
function of a good dairy cow is to produce eco nomically large quantities of milk, and when she ceases or fails to do this, her usefulness as a source of profit is gone. It will not, perhaps, be
untimely to discuss in brief several points in contion with this question, submitting conclusions
In order to get best results out of dairy cattle,
there are three essential teatures which there are three essential features which may be Usually, if one is to procure a herd of good
paying cows, he must breed them himself, as only in very rare instances will he be able to purchase such from his neighoors. In almost any herd
there are a number of good individuals which may serve as a foundation. By using good judgment
in the selection of a bull of the proper dairy type. in the selection of a bull of the proper dairy type,
and sticking to the same breed, a few years will and sticking to the same breed, a tew years wil
show considerable progresss In selecting a sire, show consiacrabie progress. be paid to the bull's
particular attention should
Provided as an an individual he is satisfac dam. Provided as an individual he is satisfac
tory, and has good breeding, based on perform tory, and has good breeding, bated on pearern
ance, he is almost certain to geo
ond calves. I the adage that " the bull is half of the herd, there would undoubtedly be much more attention paid to the principles of breeding and their appli-
cation to the darry herd. No cow, however, is capable of doing her best
without proper food. without proper food. The feed must largely de pend unon surrounding conditions, such as the crops or the price at which they can be bought to advantuge in the market. Whichever method may be pursued, there are certain principles of
feeding that should serve as a guide in compounding a ration, judgment boing used in applying them to suit individual requirements. arbohydrates and fat. The first of these nutrients goes to armo enters largely into the formation of milk The other two go to produce heat, energy and fat. It has been found by experiment that azout one part of protein to six of carbohydrates and
fat gives the best result in feeding. This relarat gives the best result in feeding. This rela-
tion is known as the nutritive ratio. Thus, by referring to a chart giving the composition of the various feeding materials, it is a simple operation
to figure out what proportion of the different to figure out what proportion of the difierent
foodstuff at hand are required to make up a oodstuff at hand are required to make up as
belanced ration. Having gone this far, we must consider the age of the animals we are feeding Young animals require food richer in protein than Ilder animals, as they are building up new bone
and muscle. A dairy animal should be so fed and muscle. A dairy animal should be so fed
from birth to maturity, to encourage a rapid growth without acquiring a tendency to put on
fat. To grade up a herd successfully, it is necessar keep a record oi the yield of each cow. No ones by so doing, but the utility of such records By their aid one is able to tell what any particu lar cow is doing, and thus judge the ration for ach accordingly. This will often result in feed ng more economically, The writer's experience using the scales, we have been able to increase of decrease the ration, as circumstances might war
rant.
It is sometimes urged that such a system rant. It is sometimes urged that such a systen
of keeping records entails too much trouble and $s$ unnecessary to ascertain the best milkers. This lay in a measure be true, but when weighing is racticed in connection with a systematic use of he Babcock test, and in sections where patron heir milk, the testing of individual cows is of no littre importance. Not infrequently, the cow that ediscovered by the test to be as proftante wil of more profitable than some of the heavy milk rs. But the objections in regard to time, labor etc, have never, to our knowledge, been made by
any person who has given the system a fair triail in the stahle, as are also the record sheets. When a cow is milked, it only takes a few seconds to
hang the pail on the spring balance. which in hang the pail on the spring balance, which in
tantly denotes the weipht of the milk, plus the bail, which, of course, has to be deducted before The record is made. Another feature that should
not one overlooked is the interest it creates in not be overlooked is the interest it creates in
those engaged in the work, hence better care and
Thore comport to the cows. in short we find it a morst important factor in building up and main
J. H. M.

THE FARMER'S ADVOCATE
the life work of a jersey cow.
She was owned by Billings' Farm, Woodstock,
had her first calf August 30 th, 1896, at 23 months old, and dropped fler tenth calf April 4
From September 14, 1896, when her frst milk was weighed, to April 29,1906 , when the last months and 15 days. During this period she gave $57,375 \frac{1}{2}$ pounds of milk. The result of four annual Babcock tosts shows none less than 5.7 Computing at the average of 5.8 , this would give $3,327.75$ pounds fat, or $3,882.40$ pounds butter, by adding one-sixth to the fat, which, at
30 cents a pound, would be worth $\$ 1,166.60$, and 30 cents a pound, would be worth \$11
the calves from such a cow should sell for enough to pay for her keep, leaving about $\$ 120$ a year clear profit.
She produced ten healthy calves, never missed reed or never look acse of meaticine. She had for a seven-day or longer test. This, in a measure, helps show that the Jersey
is the poor man's cow, well as the rich man's is the poor man's cow, as well as the rich man's pet. Barring an accident that shortened her life,
there was nothing to indicate but that she would have done as good work for several years more. (Jersey Bulletin.

## A WONDERFUL COW.

## Editor "The Farn

Possibly your readers will be interested to know how the Holstein cow, Boutsje Q. Pietertje Do Kol, 1 it ir in assing in her yeariy rocord. Up to the present


## time scarcely worth mentioning

 It is about four years since I began to keep recoras, and I consider the plan a good one. Even as you know, the actual test your fows to encourage you to make improvements in your methods. It also proves the relative value of your cows asmilk producers, and you soon find a pretext for getting rid of those who do not hold their own. As to the time required, it is scarcely worth mentioning in a small herd, one or two minutes.


MUCH SURPRISED.
Editor The Farmer's Advocato
I kept dally records of my cows' milk for two years. One thing learned was which was our best
one that I thought was one of the poorsst to be one of the best, and vice verss. I I believe milk
records should be kept by all dairymen records should be kept by all dairymen, as it is
the surest way, with a Babcock tester, to toll the surest way, with a Babcock testor, to toll
which cow or cows are making a proft. I think I can leeep the records of about five cows per minute per day, with everything ready ; that tis. weigh and set down.
eighteen selected cows beat twentyEIGHT UNSELECTED ONES.
Editor "The Farmer's Advocate"
I started a year ago to try and keep records,
ith the result that I sent off a few boarders. started because I heard so much about did not get my milk tested, I was only halt doing things. I believe a man taking good care of
cows could get interested in keeping records, for cows could get interested in keeping records, for
he would have something to go by, and not be
so careless about feeding ail to he herd the same so careless about feding all the herd the same
amount. 0 or section is not much alive to ita amount. Our section is not much alive to ita
best interests, si T have bean highest by very far best interests, as I have been highest by very far
in our factory per cow, of $\$ 50$, our 18 beating often 25 and 28 ar or
Russell Co., Ont.
Others.
JOHN
O'CALLAGHAN
sundar cheesemakimg.
Editor "The Farmer's Advocate"
Your letter requesting a copy of the new Lordse Day Act is betore me for reply. Enclosed you
will find both the Dominion Act and the cial laws, all of which are now in force, with notes on their interpretation and information as to their enforcement
pecially to a form to call your attention especially to a form of violation of both these
statutes which statutes which has been going on for some time
in connection with farming industries, namely in connection with farming industries, namely, un-
necessary work in cheese factories.
In necessary work in cheese factories. In one or
two factories in this Province the milk is deliveriod on Sunday morning and cared for in the factory, though not made into cheese. It is, of course, a violation of the law for the farmers thus to haul and much more common form of violation is the making up of Saturnay ntght's milk into cheese, involving labor until about two o clock in the
morning, and then several hours during the morning, and then several hours during the fore-
noon: This is a very serious hardship on the employees in cheese factories, and they are continually complaining to us and asking us to do something to give them relief.
against owners of cheese factories, who are fre against owners, of cheese factories, who are fre when something must be done to give relief to the employees in the cheese factories. We have been owners of the factories for the past t wo the As a result, a large number of those who have
followed this practice foliowed this practice have discontinued fit have we would have taken legal proceedings earlier, but


Boutsje Q. Pietertje De Kol.
Holstein cow
only the employees, under the Provincial law, can different. An employer who requires an employee to violate th
$\$ 20$ to $\$ 100$
A company that even permits the violation is
liable to the penalty of from $\$ 50$ to $\$ 500$. It will, therefore, be a serious matter for either joint themselves companies or individual owners if they ing summer, and the crown is ready to do it any time we report evidence to them. The
General has given orders to this effect.
In which not tell you that there are various ways made up on Saturday night and Sunday : The farmer, by providing himself with the proper facilities, spring water or ice, can keep the milk
sweet, and take it to the factory on Monday morning. Scores of farmers known to me are doing this now. (b) Factories can put in a but ter plant, cream the Saturday night's milk o
arrival, and make it up into butter the following arreval, and make it up into butter the following
week. (c) The farmers may themselves utilize Saturday night's milk for butter
Toronto, Ont
Gen. Secretary J. G. SHEARER.

## TESTING A PLEASURE

ditor The Farmer's Advocate
1 am just beginning to keep records, and cannot give much information on the subject yet
As to time it takes, by having your pails all to weigh the even pounds, and just alike, and keeping scales in, a convenient place, I think, for 10
cows, five minutes per day will do the act. The teeting is a pleasure, and is the only way to get the profit of the boarders.
Huntingdon Co., Que. A BEGINNER
GARDEN 部 ORCHARD.

## IMPROVEMENT OF ORCHARDS

## ditor "The Farmer's Advocate

Anyone who has travelled much through our country, especially the middle section of Ontario, tions of most of our apple and fruit orchand throughout that section, langely due, more or less to the indifference of those who own them. Almost every farmer nowadays sets out one or more acres of apples and other fruits, thinking, no doubt, when he gets them properly planted in the ground, that will be all the care and attention they require; and will expect, when they come to bear, to have good fruit and a large quantity of it, and if such is not the cuse, will lay the blame on the trees. But fruit trees, like everything else, need are and attention to get the best results. be something which cannot bermer, expert who makes a specialty of it unless by an from farm to farm looking for such work travel is a great mistake, and one which can be easily remedied, as almost any farmer can prune his own orchard and greatly add to the uppearance of it, if followed up systematically every year All that is necessary is a pruning knife, hand pruning shears, long-handled shears and a fine toothed saw, with good set. These, used judi ciously at the right season of the year (which is is
the spring and after the severe frosts the spring and aiter the severe frosts, before the Some of the advantages to be derived from pruming are as follows: It increases the vigor of o make ; it induces fruitfulness, and you wish the quality of the fruit by introducing a reasonable degree to sunlight; it removes supertluous r injured wood, and facilitates cultivation, spray In pruming an orchard. essly, but where a limb is required to be cut out make the cut clean, and, unless absolutely neces two and a half inches in diameter. If larger than two and a half inches in diameter. If larger than be covered by some kind of paint, so that it may eal more quickly. Within the last number of years, greater at ruit industry, in the establishment of fruit ex periment stations, spraying, and shipment by col torage, which is creating a oreign markets; and why shoul mone attention to our farm orcha
Another way in which orcha
leaving a space at each side of the trees, and by clover, rye or hairy vetch, as these improve the physical condition of the soil and add humus to the spring and the ground again sown with the regular crop, as on the rest of the farm. This method of cultivation may be discontinued, desired, after the trees. give a good return,
fruit.
HORTICULTURE."

## INCONVENIENCE OF LOW-HEADED TREES

In "The Farmer's Advocate "
In " The Farmer's Advocate of Feb. 21st, a in several others, I notice articles on pruning excellent points fruit trees. There are many exceleheaded vs. hich-hat out, but with regard to agree. Several reasons are ssigned for ing low heads-i allowing the first for train to start from the trunk at two to four feet from the level of the ground. Now, I would like some of these low-head advocates to tell us how they propose to cultivate or keep the orchards clean, and manured, seeded, etc., when the trees get, say, 20 to 30 years old, and the branches heavily loaded with fruit. Take such varieties, for instance, as R. I. Greening, Tolman Sweet, Stark, Longfield, and many other varieties, the branches of which start to grow at nearly right angles with the trunk, and after the first or second load ground, and half of the fruit is only fit to be the to the cider mill. I would also they invariably find their choicest samples for exhibitions, etc? It matters not if the trees are 40 feet apart, the finest samples are at the top. prune, and no doubt it is a little easier gathering the fruit, but when you come to spraying or cultivation in an orchard 30 years old or over, and many of the trees spreading 30 to 40 feet, so that headed trees. As to the wind blowing off the fruit, the effectual remedy for that is to plant Canadian spruce the same time as the orchard is set out, and set them about 15 or 20 feet apart
on the east, north and west sides of the orchard. Very little trouble will be experienced afterwards with fruit blowing off the trees. I am reminded
of an orchard, where an enthusiastic of an orchard, where an enthusiastic English horticulturist set out some 200 apple trees about
35 years ago. They were planted 30 feet apart each way, and were a very nice lot, but my friend the proprietor declared that he was not 'Goin' to 'ave the bloomin' happles growin' where hi
can't pick 'em hoff the ground,', so he cut them all back to about two feet. Very few of them died, and they were kept well thinned out; but
when they were 25 years grown so wide thyears planted the branches had get through the orchard. Although the tre had good crops of fruit, the samples were inferior and the orchard was not a success. My experience teaches me that it is unwise to allow a head
to form less than five feet from the ground would be quite impossible to keep the grass and weeds down, unless by hand work, which would be quite impracticable in a large orchard. I have
an orchard ten years planted, and find no losses from sunscald. If trees are kept in good condition, there is very little danger from that source. their of the best old orchards 1 know of have and are vigorous, healthy and profitable ground Standard pears, such as Sheldon, Tys
those that have a habit of very upright growth should be headed back for the first ten years for
two reasons: First, to bring them more quickly into bearing; and second, to cause them to branch more freely on the principal stem. Especially is this desirable on such varieties as Rutter,
Lincoln, Clapp's, La Suter, etc., while such eties as Bartlett, Lawrence, Louise Bon Duchess Seckel, etc., do not require much cutting beck, We generally start the tops on pears about four for most varieties; for, notwithstanding the disk
for harrow, side-draft cultivator, scufflers, etc. disk have to use, at least once in the summer, our single plow, and even then it takes all our time
to keep our orchard perfectly clean. Our plums for the past two years have been a failure, but we hope for a good crop this season a as the buds are well formed and the wood well ripened
The prices for apples continue low for this season of the year, even for No. 1 stock, as the
market in Toronto seems to be well supplied with No. 2 or wormy fruit. If fruit-growers expect to ity attend diligently to spraying at the necesThics, and prune their trees freely, and increase th. number of No. 1 apples, pears, and plums, as proved is by good cultivation. The best, ither classes will pay to grow in Ontario.

HORTICULTURAL PROGRES
Mrepared for "The Farmer's Advocate " by w. ist, Central

- ottawa.
Eleventh Annual Report of the Fruit-grower Association of Prince Edward Island, 1906 President, A. E. Burke, Alberton, P. E. I. Secr tary, A. E. Dewar, Charlattetown, P. E. I
The fruit-growers of Prince Edward Island are to be congratulated on having had their repor published so promptly, as, reaching the members before spring, it whil be read much more carefull reported in the wourd be. This meeting wa need a the pars hence does no ciation has depended to a large exteit ors from the mainland to address their conventions but at the last meeting four speakers who were expected were not able to attend, hence the papers and discussions were confined to local men, with the result that a great deal of information was brought out regarding Island conditions. In adBurke, this report contains paners liev. A. E. ence in Island Horticulture," by W. C. White Nursery lengthy discussion on "Licensing the Nursery Industry," and a letter from Stone \& Strgwon, Toronto, in regard to it ; a paper on
Stawberries," by A. E. Dewar ; an address on Cranberries," by C. R. Dickie, and a communiCation from W. 'T. Macoun, Ottawa, in regard to Apples to Plant
Judging by the discussions which took pla some of the fruit-growers on Prince Edward Isfailure of the apple crop during the past partial sons, but there is no doubt that, with betwo sea ture, spraying and protection, good crops apples can be produced on Prince Edward Island. plant appear to be Duchess, Wealthy of apples to Alexander, Wolf River, Ribston, Blenheim, King Wagener, Ben Davis, Stark, Northern Spy. Island Department of Agricultre Prince Edward P. E, I. Department of Agriculture, Charlottetown.

Report of the Ninth Annual Convention of the Western Horticultural Society, Winnipeg, Man Feb. 14 and 15, $1906 . \quad$ President, D. W. Buchan Winnipeg, Man. Western Heprtion the annual convention of the number of interesting Society contains a large cation of the keen interest and is a good ind in the Prairie Provinces. The titles of thes papers are : "Gardening on a Town Lot," "P "Fruit-growing in Southern Timber for Profit, Fruits on a Prairie Farm." "Efforts of Sma teur Gardener in Southern Alberta," "Apples in "Saskatchewan," "Strawberries for Farmers," ence in Southern Manitoba,." "/ Dittle Experi Roses," " Planting Trees," "' Working Out Horti "ultural Problems,", "Insect Pests Troublesome, $\underset{\text { A ruits }}{\text { A very }}$ valuable " List of Trees, Shrubs published in etc., Approved by the Convention," is
peport. This list includes the Kinds it is desirable to plant in Manitoba as follows: Trees Suitable for Forest it ivided tation and Windbreaks ; Evergreens and ConiCers; Ornamental Trees and Shrubs; Evergreen The list is rather long topers, and Hardy Fruits. in view of the planting of fruits which is likely to take place this spring, the following list of ruits recommended is given. It ís as follows

HARDY FRUITS.
William Belt, Clyde, Lovett, Enhance Dunlap, William Belt, Clyde, Lovett, Enhance.
Raspperries (red).-Turner, Loudon, Dr. Reider, King, Cuthbert (not entirely hardy). Dr. Reider, Raspberries (black).-Older, Hilborn.
Raspberries (purple.
Raspberries (purple and golden).-Shaffer and
Caroline. Currants (red).-Raby Castle, Stewart's North Currants (black).-Naples, Lee's Prolific Gooseberries.-Houghton, Smith's Improved, Grapes-Beta, for south-eastern Manitoba.
Plums.-Cheney, Aitkin, Surprise. Manitoba. for south-eastern Standard Apples--Hibernal, Duchess, Patten's Crab Apples and Hy Anisette, Blushed Calville. Crab Apples and Hybrids.-Transcendent, Hy-
slop, Whitney No. 20, Virginia, Early Strawberry,
The following for trial: following native fruits are recommended

POTATO - GROWING METHODS altor "The Farmet's Advocate Having been asked my method of cutting, planting and growing potatoes by so many, ow-
ing to the fact that I was so successiul these two
years or so back, I have decided to give the years or so back, I have decided to give the
particulars as best I can
early potatoes
Those who like to have early potatoes, should
rst select a very early variety, such as Early irst select a very early variety, such as Earlaty Early
ohio, or, still earlier, the Snider's Best Early and select about the size of a pigeon's ege an to
a small hen's egg. Place in rows in a box or a small hen's egg. Place in rows in abox bor
basket, with seed end up. Cover with sawdust o the depth of two inches or so. Place in a
facant room, well lighted and warm, if no outhouse is available. It is not entirely necessary o have a stove in the room. After all danger of apart, and io to 14 inches in the or ows. If in
hills, two sets are plenty in hill 30 inches
apart each way.
Be careful in handling apart each way. Be careful in handling and
planting. If done well, you will find sprouts
 whole plant or sprout just a little. Keep the
ground stirred when it is dry, either with the
hoe or cultivator Good results $h$ covering of sawdust, but with it you get the roots
as well as the little sprout. Keep the sawdust dampened. Every farmer should put up a few for
early use. When it comes the first of July one should eat old potatoos. Be sure to plant
large potatoes (cut) later on to get your seed for large potatoes (cut) later on to get your seed for
the following spring. the following spring.
GENERAL CROP

Now for the general crop, $I$ will touch on the
preparing of the ground. If
I had not cloven to plow down when wanting to plant potatoes, the
land should be fall plowed, and the earlier the better, and the oftener it is gone over with the
spring-toothed harrow the better your manure right on through the winter months,
and spread it as you draw it. Long, strawy manure is the best for potatoes. Just as soon
as possible, plow in the spring. as possible, plow in the spring. I approve of
deep plowing in the fall but shall ow in the
spring for everything spring for everything. Work with disk harrow
at frimst and roll, then the spring-toothed cultivator at different intervals-the oftener the better.
It pays tenfold to work the ground well before planting. Many have a planting machine, but I have not as yet used one. Now have your
ground rolled before furrowing out. Put a wheel ground rolled before furrowing out. Put a wheel
on the plow, and set to run a depth of about three inches. You start on the one side; come
back the first time empty. The horse now follows or walks in the furrow already made, and now you cover coming back, making and covering
each time you cross the field, thus having no
pores or short of age can easily keep the team going, providing you have the seed handy. I want to impress this on everyone's mind : plant all you cut the same
day that is, don't leave over and cut ahead to
dry dry out. If not planted right away, sprinkle
plaster-just a little-on them, but I would rather plant right after cutting. A potato the size of a hen's egg 1 split fair in two; with a arger one,
make three sets, and so on,, according to size, always, as far as possible, cutting through the
seed end. In planting, we try to drop from 18 tom 30 to 32 in the row, for late ones, the rows I found the old Empire State a good yielder, but subject to rot more than some other kinds. I had the Snider and Empire State side by side;
lost half of Empire with rot, while in the Snider I did not find a rotten potato, and they out-
vielded the Empire. The Rural New Yorker was a very good yielder here, but not quite so good In quality. In trying a nee yearset, dont dis
cand till you try two or three years at least, only of course, on a smail scale. Don't do away altogether with any kind till you are, sure you have
something better, but don't give up trying a new variety on a small scale.
I consider a clover sod a splendid thing for potatoes. Draw long, strawy manure and sprear
in winter; then, when you are ready to plant. n winter; then, when you are ready to plant,
droo in every third furrow plowing only three or four inches deep, allways using a skimmer on
plow when turning in the manure. We find it ays to go over the ground, say, wice to keep,
he weeds down before they are up. When up, ve use a sulky cultivator-a two-horse one-which
akes two row at a time. we like long rows,
as we don't grow anything on headlands. as we don't grow anything on headlands.
We use a two-wheel cart, with tongue in
ing, be sure tached, and a power sprayer. In spray not put it on too strong, as I have seen many
Telds hurt and the oriage burnt with the green
We never spray until the bugs demand it. 1 did Ve never spray until the hugs demand it. I did
rina. for the blight once, but could not see any
in digging, we use the Hoover potato
It takes two teams
one man can drive
and
not used to it, we were somewhat handicapped
last year, but we think this vear it will be last year, but we think this year it will be bed
success, and likely would have been had we understood how to run it.
We use the little sugar sacks for handling the potatoes (we would not use the boxes); they
hold a little over a bushel of the hay rack off and use the bed-piece on the wagon or truck to draw in. Driving to the cel-
lar window, we run them down a screen; two in the cellar catch them with boxes, each taking his
turn. We handled about a thousand bushels in this way last year
Now for marketing.
Now for marketing. They are taken to the Hamilton market by the load through the winter
months, and mostly sold wholesale trouble to sell if you give good weight and measure; also the same size all through at the same
time. ${ }^{\text {Stay }}$ with a good customer if he what is right with a good customer if he does thing right, and stick out for your price.
I would I prefer clover sod beifore any before closing, that ing potatoes in.
South Wentworth. Ont THOS. BOUSFTELD.

## GRAFTING WAX-TIME FOR GRAFTING

Will you please publish recipe for making gratting ing apple trees ?
A SUBSCRIBER.
These points were very fully covered in the excellent
article on top-gratting by L . Woolverton, published in in "The Farmer's Advocate" of March 29th, 1906. Mr pear tree may be done mueh later in the spring than stone-fuit trees, for while the latter should bo done very early in the spring, the former may be deferred
until the last of May or the first of June." Early May in probanly the bost time for apple gratting.
For prearing of sor preparing grafting wax, the following, is one
 and pour into a pail of old water) th.
hands and pull until it is nearly white.

## POULTRY.

POULTRY INDUSTRY IN AMERICA AND BRITAIN A few years ago there was formed in London, with a National Poultry Organization Society Mr. Fid wand Brown, F. S. Salisbury president, and ject for the promotion of which this society was established are: (a) The organization and development of the poultry industry as a most im portant branch of British agriculture; (b) the improvement of the quality and the increase of the quantity of eggs, poultry, etc., produced in the larited Kingdom ; (c) the maintenance of reguof facilitios uniformity of supply; (d) the provision ing of the for rapid transit; and (e), the bring touch in producers and retailers into close may be obtained at a minimum cost. In the summer of 1906 the secretary, $\mathrm{Mr}_{\mathrm{r}}$ Brown, under instructions from the central com mittee of the society, made a tour through Can studying the poultry industry. He travelled 6,500 miles, visiting, besides a great many cities and Guelph in Canada, inspected largo Tacking houses in cities of both countries, and, at the same time, several of the great cold-storage
plants, and interviewed many of the leading plants, and interviewed many of the leading
traders in poultry. In September, 1906, Mr. Brown published in in conclusion, indicating how far, in his opinion, the United States and Canadian methods can be especially reviewed for "' The Farmer's Advocate", and a digest published in our last Christmas number, but it may not be amiss to repeat here Mr. Brown says that the English poulterers cannot hope to entirely supply the British demand, but that their sale of first-quality eggs and chickens is already very great, and steadily increasing;
that it is the supply of these that should be the object of British poulterers, and that the cheap trade can be left to far-distant places, whether in Europe or America.
Mr. Brown sums up
"That the cost of production is less in the United Kingdom than in America.
"That large egg farms appear in some cases principles, where the capital available is sufficient to provide accommodation for the fowls, with hatching and rearing arrangements for maintain-
ing the stock; where the number of layers kept is Ing the stock; where the number of layers kept is
sufficiently large to yield an adequate return; and sufficiently large to yield an adequate return; and
where, in addition to the sale of eggs for market,
a trade can also be secured in eggs for hatching in stock birds, or in day-o
bination with fruit culture
"f
"That the American experience proves the importance of securing immunity from taint in the permanent houses, with use and cultivation of the ground in alternation, or by systematic removal
to fresh ground, thus confirming the British
practice. "That, owing to climatic conditions, the port-able-house system, so largely used in the United Kingdom, is most suited to farm operations in this country, and should be maintained where poultry
" That where farmers and others desire either to devote only a part of the land occupied to poultry, making, however, the fowls a leading
feature of the work, the colony system, extensile ly used in the Little Compton district of Rhode Island, should be adopted, taking care to remove the flocks onto fresh ground every year or two
years, and, after cropping, not to use again until years, and, after cropping, not to use again until
the manure is exhausted. Under this gystem the erection of wire-netting fences around the entire range, the fox difficulty would be largely overcome, and the repression of poultry-keeping in hurns to farmers : and also, by this plan, large areas of land now uncultivated could be profitably
occupied, more especially in connection with amall occupied, more especially in connection with amall
holdings in many parts of the country, to which it is specially suitable.
wire That the use of houses with fronts made of wire netting, thus affording suiflicient ventilation, of greatar vigor, of enhanced fertility and hateh. ability of the eggs laid, and of stronger chickens rom these eggs.
ing are to be preferred of hatching and rear breeding stock, but that incubators and brooders are essential in supplying laying hens and table tem of ventilation is most important in buth in inthat methods of rearing on a large scale are now being tested which may prove most important,
although it is too early to express any opinion
"That the dry-mash and hopper-feeding sys-
tems, as used in America, should be tested by tems, as used in America, should be tested by
British poultry-keepers. " That the product
and roasters is worthy the attention of breeders in suitable districts, keeping in view the finest quality of meat; and that the soaking in icecarefully tested. as "That American experience conirms our own as to the profitable nature of duck farming as a special business on a large scale.
o a widespread outbreak of disease among youn to a widespread outbreak of disease among young
turkeys, and, in order to protect British flocks, it is desirable, for the present, to prohibit the importation of live turkeys.
cusses the various useful paints observed that disgives description of houses and processes, illus trated by a large number of excellent cuts. Ap ward Brown, F. L. S. Secretary ook to Mr. Dc Poultry Organization. Society, 12 Hanover Square W, , London, England.
POULTRY INDUSTRY IN ENGLAND FOR 1906. In addition to the elaborate reports Mr.
Brown made of his tour of the United States and Brown made of his tour of the United States and ported on the poultry industry in the United Kingdom for the same year. A brief review of it wili
be both interesting and useful to the poultry be both interesting and useful to the poultry
trade. Mr. Brown says that during the past year there have been increased suppiles of British poultry, with prices well maintained. There has
been a steady demand for the better qualities in centers where heretofore the chickens quald wer consumers are begiming to realize that the well fed bird at an enhanced price is the cheapest. for their supply of lean chickens. Experiment have shown that chickens can be raised to the age of twelve weeks at a cost, exclusive of capital margin of profit nifter pence each, leaving a larg margin of profit after the pr
the right season of the year.
Mr. Brown advocates co-operative poultry an egg societies at points where, from the commercial
industry, or in residential low. Spring prices have beenters, prices were lieving the markets of surplus eggs, by carefully carried out preservation.
The trade and navigation returns for 1906 again show an advance in the imports of egga pounds cterling in value, and a further declint the in,uorts of poultry. The figures are as for



There has, therefore, been a steady increase in the imports of eggs for the last three years, while there has been a decrease in the import of poul-
try. The price has steadily increased since so that a grice has steadily increased since 1898 , shown in the import figures is due to the increased price of the product
During the past
reported from Russia, Dear decreased supplies are ada. Belgium and Germany have increased Canexports. Notwithstanding this, however, England buys 47 per cent. of her poultry imports of eggs from Russia, and 20 per cent. from Denmark;
Austria, Italy and France supply only about 8 per cent. each. Canada sends only 1.22 per cen The price Canada has been getting comperes as follows with the prices realized by Russia an
Denmark in the years mentioned.


The splendid system of marketing eggs in Denthe previous year, there was as compared with the provious year, there was a falling off in the
value of poultry imports of England to the amount of 869,000 pounds. According to Mr Brown, supplies from the United States are likely to increase, to the displacement of Continenta
supplies. He adds, however, that it must alway remain a cold-storage trade, and that home pro ducers need not fear if they pay proper attentio to rearing and fattening.

## A GOOD MONTH'S WORK

 Ditor :" The Farmer's Advocate On looking over the poultry department an item from ". Single Stick" which intereste me. I will now give my method of feeding hens In the morning I feed them a small feed owheat and oats in chaff out in the barnyard, wheat and oats in chaff out in the barnyard, as oom for them to scratch in. At noon I give them peelings and scraps from the house, and at ur o'clock all they will eat of wheat, oats and also keep fresh water and gravel before them all the time. I have 63 hens, of which 43 are in
cubator-hatched pull cubator-hatched pullets. From Feb. 17th up to Miarch 16 th they laid 621, doz. eggs. Fifty-one
of my hens are Leghorns, the rest are Barred Rocks.
North

## A GOOD LAYING RECORD

Dditor "The Farmer's Advocate ".
I have been reading the reports sent in by poultrymen published in ". The Farmer's Advointerest. I have thirty-six hens, White Leghorns summer's chickens, with the exception of abo summer chickens, with the exception of about
ten, and they have laid one hundred and fifteen dozens and six eggs during the winter months: January
688 eggs. 361 eggs, February 337 eggs, March
Our plan for feeding them has been a light feed of peas and oats early in the morning then a brain and potato mash, with Dr. Hess Poultry Panacea, about nine o clock. I consider the poultry panacea" a good food for both
young chicks and laying hens. Also give the hens oyster-shells; they are very fond of them. The mash is followed by barley or oats at noon,
and a feed of corn at night. The grain is scatand a feed of corn at night. The grain is scatexed in a straw litter, and gives them plenty of water. I think the hens are paying well for thei Addingtom

THE FARM BULLETIN
REGISTRATION OF IMPORTED CLYDESDALES At a meeting of the board of directors of th
Clydesdale Horse Association of Cannada, hell in Th
ronto, April 3nd, 1907, it was denulde. . ronto, April 3rd. 1907, it was decuted. ufle an ex-
haustive discussion, to make the followin, ammantment
of the rules of the association: Movel Wim. Simith, A GOOD PUBLIC PROPERTY
$\begin{aligned} & \text { notice that this new regulation requires that parents } \\ & \text { and grandparents of all imported stock be duly re- }\end{aligned}$
corded and numbered in the Scott stock be duly re-
$\begin{aligned} & \text { corded and numbered in the Scottish Clydesdale. Stud- } \\ & \text { book. We may explain that the diffculty has been }\end{aligned}$
$\begin{aligned} & \text { that through negligence, very many Sottish breeders } \\ & \text { fail to register their brood mares, which they keep at }\end{aligned}$
home, merely to save the trouble and expense of record
ing them. The result is that the pedigree is issued
elsewhere, without any sold for shipment to Canada or
Sometimes the dam, grandam, or both show no num-
$\begin{aligned} & \text { bers, while possibly, further back numbers may or may } \\ & \text { not appear. Canadians do not understand this, and }\end{aligned}$
often make disparaging remarks on the short pedigree
horsemimals in which are really well bred. Sometimes
pedigre unable to discriminate between the shot
eithgree and one of apparently better standing. In
pedigree too often compares rather unfavorably in ap-
pearance with that of many Canadian-breds now being
much publicity be given to this action as possible,
$\begin{aligned} & \text { order to give ample time to owners of short-pedigreed } \\ & \text { Clydesdale fillies already imported, during the past two }\end{aligned}$
or thiree years, to record them, as a very large number
of Clydesdale fillies have been imported and sold
throughout Canada, many of which have not yet been
owners) under the new regulations many imported and
tion not now reconded will be ineligible for registra
save nine," and "a word to the wise should be suffi-
ine or twa on current for a gey whilie tae send ye mill the present moment, and tae tell ye the truth Ye hae been haein' muckle time tae spare noo aither advocate" lately, discussin' wan thime Farmer' sich as licensing horses and mongrel dougs, the haicht and whes should be heided at, schule teachers' salaries lem to trouble some. Sandy Fraser ion day prob osopher in his wey, and he kens a guid lot, but he He's aither Of coorse it disna depreciate he was born in Canada. in Canada-it may raither improve it for being bor but onybody can easily see that he didna study oot Noo, aboot this bill that is that Rabbie Burns did Paurliment, tae try and gie men workin' up befor ment jobs an eicht oor day. Some foulk think the 'their 'oors cut down the same, on the ferms 'ill follow suit, an' andy the hired men picht oors tae. Noo, we $\mathrm{a}^{\prime}$ ken what like it is when we dae get him hoo he'll hardly man ava, and ofter sax o'clock, and when he fins oot (especially chor busy time, that the fermer canna dae without in a
soma times get gey, overbearin' Noo, tae a' them that's botherin' aboot the hire it 11 no bring a waid jist like tae say, "dinna worry, yer wheesht for a wee while, ca' canny and flee laigh
This eight oor business ferms. Nae leevin' fermer can aun tae work on the
wage tae a wage tae a man workin' only eicht oors. Baith him
and $a^{\prime}$ his femily wad need tae work and a his femily wad need tae work a' day and haur
$0^{\prime}$ the nicht tao mak' up sic a man's wages and that wadna dae; and dinna worry aboot the impleements ers 'ill jist need tae scratch alang wi' the The fermthey hae, and dae withoot the hired man. They can kye, and dae the best mair and let the caufs sook the
is a cill sic is a cheenge. It's a lang lane that his nae turnin'
ye ken, and if the fermers coold year or twa things wad richt themsels. oot for a
Gin the
young men flocked young men flocked tae the toons, there wad be mair
grub wantit there, and gin the fermers wisna pro-
ducing sae muckle it wad mair than likely ducing sae muckle it wad mair than ilikely be pettin
dear, and the fermers wad be gettin' guid prices for what they had tae sell. Then the young fellas that
Was workin' their eicht oors wad hae eicht oors tae
work in, eicht tae sleep in, and eicht tae fool aroun' in, and what wi the high price o leevin' and the ex-
tra time they bad tae spend their money in, they
wadna be hauf sae weel alf as if they had steyed on
the ferms. an' no hauf sae guid men aither. M. B.
Breezy Bray. Cirey Co ant Wadna be hauf sae weel all as if they had steyed on
wad
the ferms. an' noe hauf sae guid men aither. M. B.
Breezy Bray, (irey Co.. Ont.
seconded by Jno. Bright, that the r
dale Horse Association be amended
" Imported Clydesdale stallions
and out of dam, both recorded in the
dams are also recorded and bearing
ion in C.S.B. of Canada, and that the for
ion
hall come in force on the first

ABOUT HORSE - RACING AT ONTARIO FAIPS Hon. Nelson Monteith, Minister of Agriculture, passed its final readings, to amend a bill. Which has Societies. Act. As most of our readers are aware, the latter was pretty thoroughly overhauled a year ago.
The principal new change is an amendment to Section 22 of the above Act, which relates to horse-racing fairs, and reads as follows :
horse-racing other than trials of speed under on any hrol-and regulation of the officers of the societ the con-
tring the days appointed for holding any exhibition by any society, at the place of holding the exhibition or withy
in five miles thercof.
this section shall be liable, upon summary convict of before a justice of the peace, to a fine not exceeding $\$ 50$, or imprisonment in the common gaol of the
county for a period not exceeding thirty days. ." (3) In case any person is convicted days. " (3) In case any person is convicted under this sec
tion, the society thus proven to have permitted horse racing shall be debarred from receiving any portionse the legislative grant in the next ensuing year.." The amendment consists of the addition of
wo .. (4) Prosecution under be made only upon the information being the Act may person who is a member of the society for the current year, and who also was a member of the society in the
previous year."
Freely interpreted, the above quotations mean that Freely interpreted, the above quotations mean that
horse-racing at fairs is still prohibited by law (except that simple form of it known as "trials of speed"), but
henceforth no one will be allowed to take action against aociety for racing unless the party laying the inormation is a member of the society for the current
year, and was also a member in the The change seems certain to render this law prohibioiting racing-which has been practically a dead prohibiting
way-veven more completely ing any-way-even more completely inocuous, from the proof a member's prosecuting the society for the chances
are very slight indeed. However, before passing judgment it will be well to consider the Minister's reasons, as summarized view : order to appreciate the Departmental point
When the Agriculture Bill was up for consideration by the Department last year, the Fairs and Exhibitions
Association had it all under consideration in February 1906. They passed a resolution to cut in February, bition in horse-racing. The Minister did not see fit to accede to their request, and put it through as it stands in section 22 . The matter came up again at the
Agricultural Societies' convention this year Agricultural Societies' convention this year, and a
strong resolution was passed by a very large majority asking the Minister to leave racing to the option of the directors of the society. They sent a committee
to lay their case before the Minister heade new President. After hearing their views, the Minister
ne did not give them much encouragement. Then the proposition was made that as the new Act stood, the directors of any society were continually at the mercy
of irresponsible persons. Some of these had threatened after being excluded from the grounds, that threatened, get revenge on the directors through section 22 of the Act. The bill recently introduced by the Minister was simply intended to protect the societies from action by
such kickers and irresponsibles such kickers and irresponsibles.
As a rule, the regulation of
is as follows: The annual meeting is held aral sooiety and a board of directors is elected from among them-
selves to carry selves to carry on the work until the next annual meet
ing, and that board of directors has and say in the matter of conducting the exhibition. They may or may not conduct horse-racing, as they sea
fit; they do not consult fit; they do not consult anybody else. Boand of
directors may sometimes introduce horse-racing without consulting or sometimes introduce horse-racing without
contrary to the general opinion of the members and people of the section. The amendment
would ostensibly provide that would ostensibly provide that the directors would carry
on horse-racing only if they had the unanimous consent on horse-racing only if they had the unanimous consent
of their members, otherwise they would always be, as now, in danger of being prosecuted.
There is in some quarters a pre
There is in some quarters a pretty general opinion
that the Government should step in and enforce the that the Government should step in and enforce the
Act, but this has never been its policy. They did
send out detectives send out detectives to put down gambling, but there
are no two opinions in this country whether gambling
should be gllowed, but there is sol should be gllowed, but there is some difference of opin
ion as to whether horse-racing should ion as to whether horse-racing should be allowed, so
the Deprartment, under both Liberal and Conservative
Governments, has simply made the law and left comcovernments, has simply made the law and left com-
munities to do as they like. The C. P. R. management has completed arranqe- $(U$
W. SANGSTER, Sec.-Treas.

APRIL 11, 1907

## MARKETS

toronto.
live stock
Receipts of live stock at the City an
Junction markets last week were not as
traders. At the Junction, on Monday rood; prices firmer
Exporters.-Prices ranged from $\$ 4.90$ $\$ 5.50$, the bulk going at $\$ 5$ to $\$ 5.40$ 5.50. Export bulls were slow sald $\$ 3.75$ to $\$ 4.25$
( Butchers'.-Picked lots of the best sol t $\$ 4.90$ to $\$ 5.25$; loads of good $\$ 4.60$ to $\$ 5.00$; medium, $\$ 4.35$ to
$\$ 4.50$; common, $\$ 4$ to $\$ 4.30$; cows, $\$ 0$. o $\$ 4.40$; canners, $\$ 1.50$ to $\$ 2.25$. Feeders.-Few feeders or stockers are demand for those of good weights, ranging from 1,000 to $1,1.50$ los. each, at
$\$ 4.25$ to $\$ 4.60$, according to quality. Milch Cows,- Only a limited number generally. Prices rannged from mediu
$\$ 50$
$\$ 5$ each, the bulk selling from $\$ 35$
Veal Calves. - A large number of com mon dairy calves are number of com-
Trade for common quality slow, and prices easier, ranging from $\$ 3$ to $\$ 7$ per
cwt.; but prime new-milk-fed alves in demand, selling as high as $\$ 7.50$ wer cwt., but few of the latter class are be-
ing offered. ing offered.
Sheep and Lambs.-Deliveries light

 per cwt. ; spring lambs are worth from
$\$ 5$ to $\$ 10$ each, the bulk going at about
$\$ 7$. Hogs.-Dealers are quoting prices easy
at $\$ 6.65$ for selects, and $\$ 6.40$ for light and fats. Pat it will be difficult to ge
prices, be
prices down in the face of present prices down in the face of present ligh
receipts. receipts.
Horses.-There has been a good marke during the past week for all classes
horses, providing they were young sound. Several private sales carriago and saddit horses were reported,
The market for drafters and heavy de
and The market for drafters and heavy de-
livery horses, providing they were young
sound and healthy, was brisk at good prices. But there are too many horse that are being brought this standar by farmers and some dealers. This class
are slow sale at low prices. Mossrs. are slow sale at low prices. Mussrs.
Burns \& Sheppard report prices as fol lows: Single roadsters, 15 to 16 hands horses, 15 to it.1 hands, $\$ 140$ to $\$ 175$;
delivery horses, 1,100 to 1,200 lbs., $\$ 150$ delivery horses, 1,100 to 1,200 lbs., $\$ 150$
to $\$ 175 ;$ general-purpose and express
$\qquad$ $\$ 180$; draft horses, 1,350 to 1,700 lbs.,
$\$ 150$ to $\$ 225$; second-hand workers, $\$ 50$
to $\$ 100 ;$ second-hand drivers, $\$ 40$ to \$128. BREADSTUFFS


THE FARMER'S ADVOCATE.

## The Sovereign Bank of Canada

RANDOLPH MACDONALD, President. A. A. ALLAN, Vice-President. Capltal and Surplus over $\quad \mathbf{~ - ~} \quad 5.000 .000$
Assets oyer
Deposits of $\$ 1.00$ and upwards received. Interest paid 4 timer a year
28 Branches Throughout Canada.

Honey.-Market strong, with light offer-
ings. Strained. Ni.75 per doz.
Evaporated Apples.- 9 .

## Evaporated Apples.-9c.

Potatoes.- Receipts liberal. Prices
casier, at 90 c . to 95 c . per bag, by the Brunswick Delawares. Toronto, for New Poultry.-Supplies light; prices firmer;
turkeys, 16c. to 22 c.; chickens, 15c. to 17c.; hens. to 12 c . to 14. ; chickens, per 1 b , 15 c .
Hay. - Baled, per car. on track, onto, No. 1 timothy, $\$ 13:$ No. $2, \$ 1$ Straw.-Bnled-Car lots, $\$ 6.50$ to $\$ 7$. n track, at Toronto.
Beans.-Car lots, in bags, at Toronto Hand-picked, $\$ 1.25$ to $\$ 1.30$; primes,
$\$ 1.15$ to $\$ 1.20$ Small lots sell $\$ 1.15$ to $\$ 1.20$ Small lots sell a
$\$ 1.50$ to $\$ 1.60$ for hand-picked, and
$\$ 1.35$ to $\$ 1.40$ for primes, in bags. seeds.
Toronto seedsmen are quoting the fol-
10wing prices for re-cleaned seed to farmers for spring seeding: Red clover, $\$ 14.50$
 hides and tallow.
Prices aréquoted as follows by E.
Carter \& Co., 85 East Front St.. ronto: Inspected hides, No. 1 cows
and steers, 10 ct. .
inspected
 cured, 9 c .; country hides, green, 8 ,
calf.
skins, No. 1 city, 13 c.; calf skins, No. 1 country, 11 c . ; sheep, skins, skins
$\$ 1.55$ to $\$ 1.65$; horse hides, $\$ 3.50$ to
$\$ 3.75$,


## MONTREAL

Live Stock.-The English cattle mar-
kets were mand for quood stock was fairly active provement. Shipments of cattle from St. John, during March, were 5 5,157,
those from Portland being 5,014. De liveries on the local market were of fair
volume. export, and several carloads were taken
at from 5 tc. to 5 c.., this trade being due to better advices from abroad, no
doubt, and to the outlook ter prices. Butchers' were buying freely

 to $3 \hbar \mathrm{c}$.
Calves were offering in large
numbers, and prices were steady, the numbers, and prices were steady, the
poorer qualities selling at $\$ 1.50$ to $\$ 5$ each, and the better up to $\$ 8$. Spring
lambs were scarce, but some were selling at $\$ 5$ to $\$ 7$, while sheep ranged from Sc. to 6 c, per 1 b . Milch cows brought
from $\$ 25$ to $\$ 45$ each, not being in very
good demand, owing, possibly, to the poor quality. The market for hogs showed considerable strength. The
offerings were none too liberal, and de-
mand was mand was good, prices ranging from
$\$ 7.50$ to $\$ 7.60$ per 100 lbs., weighed off $\$ 7.50$ to $\$ 7.60$ per 100 lbs., weighed off
cars. This is for select lots, others being
 one dealer, and the demand is by no
means satisfied. The animals are
wanted for artage purposes, transport wanted for cartage purposes, transport
companies being now in the midst of ar-
rangements for the coming season's business. Prices hold steady as follows
Heavy-dratitanimals, weighing 1,500 to
1,700 lbs. each, 8250 to $\$ 300 ;$ light draft, 1,400 to 1,500 liss., $\$ 200$ to $\$ 250$
each; express horses, $\$ 175$ to $\$ 225 ;$
common drivers, $\$ 50$ to $\$ 100$ and
choice Iriving and saddle animals, $\$ 300$ to $\$ 500$
each.
Dressed Hogs and Provisions.-There is
an excellent demand for dressed hogs, al-
demand, in proportion. Select, fresh killed, abattoir-dressed hogs range around
$10 \ddagger \mathrm{c}$. per lb. There is a splendid do 1osc. per lo. There is a splendid de
mand for bacon, owing probably to the
presence in the nirket of choice, fresh eggs, at a very reason
and abc. per Prices are steady at 15 lc c. to 13c. to 14c. for green bacon and under-
grade smoked grade smoked. Hams are in good de
mand also, at 13 matr also, at 13ic. to 14 c . per 1b. fo to 15 c . for medium, 18 to $25 \mathrm{lbs}. \mathrm{\%}$; 14 fc c . to 15 kc . for 1.2 - to $18-\mathrm{lb}$. Weights, and
15 kc . to $16 \frac{\mathrm{tc}}{} \mathrm{c}$. for smaller. There is Prices hold steady, at $\$ 21.50$ to $\$ 25$ per Earrel, according to quality.
Eggs. - The market for eggs is fairly teady at present, a slump in prices having just occurred. The tone began
to weaken just before the Easter holidays, owing to unexpectedly large sup-
plies. Demand has been, and still is Demand has been, and still is
very active. A very large quantity of
eggs changed hands at Easter, but esgs changed hands at Easter, but the so that from about 28c. to 24 c ., prices consumption counterbd 18c. before the is claimed that dealers are now paying 15c. in the country, and that, shortyy.
this will be reduced to 14c. It is like ly that pickling will begin when the market gets as low as 15c. here.
Potatoes.-The
Potatoes.-The market for potetoes is
higher than a week ago Deliverise her not been very active of late, end one or two merchants have absorbed and one or ffered. It would seem that 70c. is the wsual price paid shippers, on track, Ror
White stock, per 90 lbs., although some range up to 75 c . Mixed red and white are quoted at a cost of 65c., on track.
These would be resold at an advance of These would be resold at an advance of
c. . on track, and at an advance of 10 c .
0 . 15 c , per 90 lus., bagred and delivered

Butter.-The situation in butter has enaccounts. Prices for new-milk creamery
have declined some cents, and held atocl have declined some cents, and held stock
is accordingly easier. One dealer claims is accordingly easier. One dealer claims
that he is ready to sell new-milk creamery at 27c., and that the choicest on the market would not bring more than 28 c .,
if as much. On the other hand, held tock is bringing only 25 c . to 26 c ., Zor the very best, while the less choice quali-
ies sell as low as 23 c. to 24 c . There is an idea that the new-milk goods will
be coming in freely by the end of this Veek. Stocks of held butter are now
very light, and it would not seem that very light, and it would not seem that
any trouble will be experienced in al-
together disposing af it Chether disposing of it
Chese.-So far as the
Cheese.-So far as the market for old sale, and very little demand for it. Howver, it seems to be changing hands
slowly at 13 tc. to 14 c ., according to quality. As to feeders, oflers of stock
have been made here at 13c. and it held that purchasese at 13 c ., and it
bhe country at 12 ch c. per 1 b . made in he country at $12 \frac{2}{2} \mathrm{c}$. per lb .
Maple Syrup. The weather has been favorable for the run of sap this season, and correspondents, until a few
days ago, reported a failure in the counys ago, reported a failure in the coun mprovement has been observed, and at the moment it looks as though the run of sap must be pretty free. Meantime,
the market here would seem to not specially strong. Some very high seem that sales of quoted, but it would at 6 दc. per lb., or 85 c . to 90 c . per gal., One firm reported prices 2c. more, in cach case, than the above, but the reHay -The market
 done at a reduction in price. The same
may be said of England. There are no
shiments to London at present. Tt io
ent in St. John and Portland. Prices are $\$ 13.50$ to $\$ 14$ per ton for No. I
timothy, $\$ 12$ to $\$ 12.50$ for No. 2, and
 Seeds.-Practically all the seed, has
now been received from the councry, and merchants are now busy shipping out
again. There is an unusually good deagain. Thare is an unysually good de-
mand for all sorts of hayseed this season. The meadows still show the
effects of the killing last year, and the sowing will be extensive. Dealers quote
timothy at $\$ 4.50$ to 8 ; alsike; $\$ 15$ to timothy at $\$ 4.50$ to $\$ 7$; alsiko, $\$ 15$ to
\$16; red clover, $\$ 15.50$ to $\$ 17.50$, and sid; 'red clover, $\$ 15.50$ to 817.50 , and

white, $\$ 14$ to $\$ 20$, per 100 lbs , \&. o . | Montreal, |
| :--- |
| Hides. |

spring lamb skins, and are offering to buy apring lamb skins, and are oifering 100
each for them. Sheep elking, however are stili $\$ 1$ each. As for hides, prices are steady. Demand is poor, and the sup-
plies are not everly free. Beef hides are plies are not everly free. Beef hides are
10c., 11c. and 12. per 1 lb , for Nos, 8, and 1 , and dealers are reselling to
tanners at an advance of tc. per 1 b . tanners at an advance of fe. per ib.
Calf skins are still 18c. per 1b. for No. and 15 c . for No, 1, and horse hides
2 each for No. 2, had $\$ 2.50$ for No. 1 allow is 1 tc . to 4 jc c. per lib. for rough


BUFFALO.
Cattle--Prime steers, $\$ 5.60$ to $\$ 6.10$. Veals, $\$ 4.50$ to $\$ 9.25$.
Hogs.-Mixed and Yorkere, 87,20 to 7.25 ; pigs, 97.15 ; roughe, 88 to 86.35 Sheep and Lambe. - Sheep steady embs, 25 c.
lower; lambs, 85 to $\$ 8.75 ;$
a
a wethers, $\$ 6,25$ to $\$ 6.75$; ewes, $\$ 1$
$\$ 6.25 ;$ sheep, mixed, $\$ 8$ to $\$ 6.25$.

## CHICAGO.

Cattle.-Conimon to best stears, 84,40 to $\$ 0.70$; cows, $\$ 8.50$ to $85 ;$ helfere,
82.75 to $\$ 8.25$; buik, $\$ 8.80$ to, 81.40 ; alves, $\$ 2.50$ to $\$ 7$; stockers and feeders, 2.50 to 85.10 .
 6.90; light mixed, 96.75 to 86.80 to \$6.25 to $\$ 6.82 \mathrm{i}$; ; pigs, $\$ 6.50$ to $\$ 8.0 \mathrm{~s}$ : bulk of sales, $\$ 6.75$ to $\$ 6.85$.
Sheep and Lambs.-Market Sheep and Lambs.-Market strong;
sheop, $\$ 4$ to $\$ 0.75 ;$ yearlinget, $\$ 4.25$ to
7.80 ; lambs, 86.25 to $\$ 8.25$.

BRITISH CATTLE MARKET. London.-Liverpool and London cables are Armer at 11 lc . to 12 ke . per 1b. dressed weight: refrigerato
quoted at 8 tc. to 8 fl . per 1 b .

## OULSTIONS AND ANSWERS

Miscellaneous.
PRUNING EVEEGREENS A subscriber, Grey Co., Ont., alks When to pr
belsam, etc.
Ans.-Evergreens stand pruning remarkany tifine from the work can be done at any time irom early spring till the, mid
die of June. If it is desired to keep them to a certain size, as in a hedge, for
instance, it is better to delay instance, it is better to delay pruning till quite late, as the growth for the seaso
will then mostly have been made, and whey will make elittle edvance for the re-
mainder of the season. Some prune mainder of the season
twice-early and late.
TICKS AND LICE OM SHEEP. My sheep have some ticks on them and on cattle. The sheep are pulling thei wool out and wasting it. What can I do to rid them of such pests? Wound it
do to shear the sheep early in Aprits.
$\qquad$
Aion, may safely be shoern, in in mood mild weather in April, if warmly housed for a tew
 chear until warmer weather comes. The commercial sheep dips, poured from a
coffeo-pot, the wool being opened in conee-pot, the wool being opened in
streaks along the back, neck and sides, are sure death to ticks, but not always
effective in destroying effective in destroying small lice.
iittl arsenic should be added to Sor their distruction. Tobacco fuiteo dill (pyrethrum) sifted from a dredger into

Cife，急位eratute amd 近就ratinu．

## 

## a GREAT EMTERPRISE．

 RECLATMING WASTE LANDS． The people of the United States of most telling attribute of for that vidual or any nation－push． been heretofore seen in rapidity settlement，the building of greatcities，and pro cities，and promotion of trade．
late years，however，ventures been made into other fields－fields re quiring not only push，but skill and
courage．The United States has，in courage．The United States has，in
fact，launched forth as one of the foremost promoters of great engineer－
ing enterprises in the world． conception of the Panama Canal wa it was that finally took the matter in hand．The task is truly mercu lean，and numberless unexpected diffi－ culties and setbacks have presented themselves，yet no one dreams for an
instant that the project will ever be abandoned，as by the French twenty years ago．
Some of the latest tasks which the
United States has taken self have been induced by the neces sity of finding more room for the people．With immigrants flocking own doors，and a surplus of her Canada，with no＂easy ，＂new area to be opened up，it was new aressary
not to find but to make room．Thou－ sands of square miles of land－in large as the whole United States－ ay barren and arid，a vast system izard，and broken only by bluffs the spiny cactus or hummocks of coarse grass，which not even the wild ani－ mals along the borders could eat． fertile grain and fruit fields and dot it with homesteads became，not only a dream of the Government，but a
working reality．A Reclamation working reality．A Reclamation
Service，composed of shrewd，capable men，was established to see to the carrying out of the work．The proj－
ect was almost terrific，but it was also dazzling，and the money to be
expended was sure－$\$ 1,500,000,000$ ． The figures were staggering，but， with success，the profits would be
clear：the reclaimed land would be clear；the reclaimed land would be
worth $\$ 2,500,000,000$ ，and would supply $3,000,600$ people with homes．
This was all calculated out beforehand This was all calculated out beforehand
What success the Service is having What success the Service is having，
may be judged from the fact that， ago， 280,000 acres of dese have already been reclaimed． who has summarized the accounts the work，its prosecution
volved some of the most unpreceden ed and spectacular engineering of modern times．Uncomphagre Va in Colorado，there lies 150,000 acres
proper supply of water，a five－acre homestead would support an ordi－
nary family，but utterly useless for want of that supply．Some few tofore it has a river，but here this area by a wall of rock 2,000 feet high and six miles thick．The
river，at the only available point
runs runs through a canyon，so deep and dangerous that even the Indians
would not attempt its descent．No man，they said，had ever attempted the feat and come out alive．Never
theless，two surveyors，M．A．Fel lows and W．W．Torrence，volunteered the inspection．Carrying their neces
sary surveying instruments with they surveying instruments with them
towered by ropes 2,000 feet down to the dizzy depths．For sev eral days nothing was heard of them and it was feared that they had per－
ished．Then they emerged，bruised， hungry．Their raft had been wreck ed，their provisions lost；for two days they had had nothing to eat－
but they had discovered that the ＂Gunnison＂tunnel was practicable．
The next step，then，was to set great aqueduct that was to carry over the wall．Topographers，＂dan gling at the end of half－mile lengths the canyon went over every part of the canyon，and maps were drawn．
Then，somehow，engineers managed to cut a wagon－road out of the sheer rock，machinery was hauled in，a
power－plant was established，and the wark of excavation began．There reason of noxious gases and subter－ ranean springs，but giant pumps were set up to drain these away．Once a
portion of the roof fell in，cutting off
nineteen men．When reached，they were found up to their armpits in
when then rapidly－rising water．．．Since its
inception，the work has gone on night and day．Already the aque－ duct has peen cut more than half of the six miles through the rock．When
dug，its capacity will be 13,000 cubic feet of water per second．It will be cement－lined throughout，and will be ompleted in 1908，at a total cost But this is
wot this is not the only present Salt River，in Arizona，a dam of solid masonry 270 feet high is being
built．When completed it wing create a laken 25 miles long it will feet deep，from which 200,000 acres of now arid land will be irrigated． Again．in Wyis cost $\$ 5,650,600$ ． Again，in Wyoming，another fa－
mous dam，the shoshone，is being erected．It will be 310 feet in
height，and will convert a narrow height，and will convert a narrow，
granite canyon into a lake covering
5,000 acres． $\$, 000$ acres．The total cost will be
$\$ 9,250,000$ ，hat 310.000 acres of At other points a different prob－
lem presents itsclf，as at a portion
of the Colorafo of the Colorado liver．where large
anas oi land are rendered practically
ont ins reason of the amnual over－ ＂s are beriny com－

In matters of pure instruction，
a different prob－matters that have heen hammered
as at a portion
out by years of scientific where lelving ange
oexperiment，the press may，it is true．
ivered practically speak to you with authority．It may
the amnual over－tell you－by simply narrating the ex． Here it is neces－tell you－by simply narrating the ex－
wherience of master minds and hands
cest on a foum－grow instead of two burdocks and a
may not accomplish within the course of the next century－nay，within the course of the next decade．

THE＂ADVICE＂MICROBE In going over the majority of mod ern periodicals，the question might for advising has whether a microbe the editorial dens and permeated all blers＇dens in the universe．There with the the upon which those smitten with a sang－froid，too，that would almost convince you－if you did not its very positiveness．＂＇How to re tain the affection of your husband or inf，＂，＂How what to do if you have lost．
it meet trouble，＂＂How to train，children，＂＂How to be popular，＂＂How to grow rich＂
verily there is no end of the＂＂ to＇s＂that these writers pour upon you know nothing，and who，for all you know，may be preaching what
they do not practice and have never practiced．Have you ever stopped
to think of it？ to think of it？ 1 t is not ordinarily Browning and his wife who are most likely to tell you＂，how to be who instructs you how to bear up in the dark days；nor a Pestalozzi who
cries loudest as to the training of chit cries loudest as to the training of chil－
dren；nor a Dolly Madison who gently dren；nor a Dolly Madison who gently John D．Rockefeller who painstaking yh delineates the steps to wealth which you follow with such amazing
interest－but an M ．Wellingworth Tiddlywinks，from X ．Y．Z．，or a Genevieve Kathryn Boggs， $\left.\begin{array}{l}\text { or a } \\ \text { from }\end{array}\right)$ The Pines，＂Bogrstowng ＂The Pines，＂Boggstown． Occasionally
dlywinks，or
M．Wallingworth Tid
Genevieve Boggs，says something good，some good old truth which bears repeat away or which finds an answering echo away down somewhere in your inner
consciousness，but the point is this that（and here，are we advising， too ？）it is not wise to pin one＇s
faith unlimitedly to everything one sees in print．There is a tendency
to do that nowadays．From being a devil＇s machine，as in the time of
good old Dr good old Dr．Faust，the printing
press has come to be something of an iron god．When it speaks，it is
too often as though and spoken，and men and woracle had low its utterances whole，quite for－ ting the words into its all，and put－
inst lips，are just men and women，not infrequent－ y very pigmy men and women，too，
who have their problems，just as or－ Who have their problems，just as or－
dinary people have，and the same
inability to solve upbility to solve them to their own
$\qquad$ matters that have heen hammered
turned out the very opposite of what
you expected－better prohably，or，
just possibly，worse．
At the end of it all，the matter re－ solves itself of it all，the matter re
that we are into this what we are individuals－just thin what that word means，will you ？－
and that we must think and act as
individuals－ individuals－stand on our own feet－ and，in most matters，work out our
own salvation．It is well that thi own salvation．It is well that this
serve your health，how to cook or to
dress hygienically，or how to decorate according to the most approved rules
of the artistic world ．but of the artistic world ；but when it
comes to those more evanescent comes to those more evanescent things，those emotional and psycho－
logical problems which beset us all can it truly say＂yea，yea＂＇＂nay， nay，＂to your undoubted edification？ We are all as different as posies in a
garden．What may be food for garden．What may be food for you roll away from me＂＂like water from a duck＇s back．＇No one can tell
you how to make your wife you how to make your wife love characteristics which demand her re－ spect and her love．Cultivate them？ Ye－es，possibly you may，but a
change of nature must do it：shallow cultivation on top is likely to to but a few more spots to the leopard＇s hide．Most people see through pre tence，through any system of action entered upon with a cold eye to what varnish you manage to daub on the surface，counts．．．．．Again，
how can anyone tell you what to how can anyone tell you what to do
in time of trouble？How can any－ one know the depth of your grie the strength or weakness of your
faith，the things that appeal to faith，the things that appeal to your
Possibly old Thomas Carlyle as near as anyone to the remedy for the majority of us when he preached lige gospel of work，work，work－re way，or good honest ditch－digging （at any sort of ditch），if you are not．＂，aven hand labor，＂if it be judged－and truly－is＂＂s sacred，＂and in time of dire mental need its un－ doubted effect，as one of our poets has remarked，may be to＂deaden，＂

$$
\begin{aligned}
& \text { The mere mechanic exercise, } \\
& \text { Like dull narcotics numbing pai }
\end{aligned}
$$

Numbing at such times is worth occasion．as are anresthetics upon how can anyone，especially example， a thousand miles away，possibly tell you how to make angels of your
children？How can she possibly know the fits of impishness，possibly ratic and altogether incomprehensible and unaccountable moods and im－
pulses which seize those little cherubs of yours，nor－bless them ！－the
heights of innocence heights of innocence and love which
sometimes seems to land them at Heaven＇s own door？Your children are individual；no two of them are alike；nor can a cut－and－dried，hard－
and－fast line be laid down for the and－iast line be laid down for the
management of all the children in the universe．You must study your lit tle ones，and treat each one accord
ingly；and then，ninety－nine chater ingly；and then，ninety－nine chances been all at sea，and that the little elves haven＇t hoodwinked you and turned out the very opposite of what everyone in it were modelled preci

APRIL 11, 1907
worth Tiddlywinkses and the Ge vieve Kathryn Boggses! Wha,

- possibly, what a hideous chaos of other it would be!
After all, we make our own ideals. After all, we make our own ideals.
others see them, noe things as accept their ideals, as ours. Where we do "acept" them, it is usually because, were alreardy ours, worked out after
many years, and with much travail many years, and with much travail.
When the " other fellow " puts the When the "other fellow" puts the product of similar years and experi-
ences, and, possibly, temperament,
into w.ords, we immediately say, into, words, we immediately sa
T. That's good I agree with that
nd take him to our
O has not, probably, given us a new
thought; he has simply formulated and exposed a bit of the common nacure between us, this thing that can
make us kin. Still, if this new make us kin. Still, if this new
friend is true to himself and to us, he will say, "Do not do as I say,
Be yourself, your best self. Work
Bour trying, aspiring, thinking-above all trying, aspining, thing and balancing for
true weights and measures of things -are the "burdocks and jimson
weeds " of the soul and the intellect weeds" of the soul and the intellect
eliminated, and the goord corn made to grow. not say, "Do not read the
We do no
Tiddlywinks and Boggs articles." At all events, they are amusing, and oc-
casionally they may reiterate the great thought, or even formulate it.
We would only repeat again, do not in your faith to them, nor to the
Even the Titans

The Quiet Hour.
A PURE OFFERING. Take heed that ye do not your
righteousness before men, to be seen of
ttem: else ye have no reward with your
Father which is in heaven.-St. Matt.
vi.1 (R. V). " I $\begin{aligned} & \text { would } \\ & \text { sighed the greek, }\end{aligned}$ As on he goaded to the temple-door
His sjotted bullock. " Ever of our store
Doth Zeus require the best ; and fat and The sleek I vowed to him (no brindled streak, of dun) when through the
fleck
breaker's He bore me mafe, that day, to Naxos'
shore : And $\begin{gathered}\text { shore; } \\ \text { now ; my gratitude, how seeming } \\ \text { weak; }\end{gathered}$ But heak be chalk-pits. What if I should The blotches, hiding all unfitness so?
The victim in the people's eyes would show
Better therefor;-the sacriffcial rite Be quicklier granted at thus fair a sight,
And the great Zeus himself might never know
We have a God who knows. And yet we On Hare consuming altar-coals to lay
(Driven by the prick of confidence The whited sacrifice, the hollow prayer In place of what we vowed, in ou
despair, of hest and holiest;-Glad no mortal may
P'ierce through the cheat, and hoping hal that to stay before whose search all souls

- Nay, rather;-let us bring the victimI) hiled, unworthy, blemished though it And fling it on the flame, entreating,-
"i See, I Mush to know how vile in every part
Is this my gift, through sin's delusive art,
'tis the best that I can offer Thee!"
-Margaret J. Proston. e great Sermon on the Mount is
ity itself in its stern probing to the
of actions which on the surface ap-

THE FARMER'S ADVOCATE.
of the thought-world have made mis- ism, so far as home beauty and takes. And for another reason
the periodicals-even the psycholog-
ical elements
 speaks therein, and when he speaks
you will know him, even if his nam you will know him, even if his name COUREUR-DU-BOIS. A beLated essay on "the IDEAL FARM HOME
Home is the same everywhere; that
is, the rea! home. The home is the is, the real home. The home is the
soul, the hoine-feeling within a man dear to the poor man as to the rich man. it is not so much the estate and sur roundings, or the possessions that a
man has, that constitutes idealism so far as life on the farm is concerned, but rather those qualities and
capabilities in the man which will capabinties in the man which wil
make his life, wherever his lot may be cast, an ideal one his ideal not so so
far as the farm that he lives on is far as the farm that he lives on is
concerned, but from the point of view Not every man, it may be, could
have an "ideal farm"" but every have an ideal farm, but every
man who is true enough can have, if
he so desires, an ideal farm home Constant hearts, broadened sym pathies, the faithiful, true ambitions
of chastened natures are needed
everywhere everywhere. Where such hearts are,
home is, too; and where such as a home is, too; and where such, as a
matter of choice, prefer farming as a
calling, all the conditions of ideal-
-
to speak as though the requirements o
the Law were stern and hard, while the Gospel commmands were gentle, and milld;
but in reality the obedience which Christ requires is far greater than that of the
Law of Moses. The Good Physician Law of Moses. The Good Physician
coks betow the outside appearance, and
cuts ruthlessly away the covering which cuts ruthlessly away the covering which hides a festering wound. A man may be
honest in his business and moral in his
life, he mater dife, he may go regularly to church and give liberally to the support of many
charities, and feel quite satisfied that he is a righteous man; and yet he may ut-
terly fail to pass the searching tests of Che Sermon on the Mount. The scribes
 and yet our Lord says to His dispiples: "Except your righteousness shall exceed the righteousness of the scribes and
Pharisees, ye shall in no case enter into the kingdom of heaven." It is so easy to deceive one's self. It
is so pleasant to feel that one's actions are approved by others, and self-estomm
is apt to increase rapidly if we look at ourselves increase rapidly if we look at
from the world's point of view-for the world's ideal is not a very high one. But when we view our uc-
tions in the white light of God's pure retions in the white light of God's pure re-
quirements, they look very poor, and inquirements, they look very poor, and in-
stead of sell-approval we are forced low on our knees with the publican's cr
" God be merciful to me a sinner." How many gifts are presented at God's altar
are
which
meaningless prayers, coming (nly from the lips; there are outward signs of
reverence which may be merely formal reverence which may be merely formal
acts with no corresponding lowliness of
soul. Then there soul. Then there are the good deeds
which would not be done if only God knew about them, the righteousness that is like a theatre performance-done be-
fore men to be seen of them"- and
which fails to win the lasting reward of is heavenly Father's approval. There is the money that is contributed
church with the underlying feeling, indefinite to be called a thought, that others will see how liberally we give or
how small our offering is. How can God how small our offering is. How can God
accept our money if we do not think of accept our money if we do not think of
Him at all, nor care that it should do real good to our brothers and sisters, if
all we are thinking and caring about is
the all we are thinking and caring about is
the good opinion of our friend and ac-
quaintances ? Then there is the subquaintances? Then there is the sub-
scription paper for some charity,
Perhaps we ask. How much are people Perhaps
giving ? ". giving?" Perhaps a large sum is put
down with the pleased thought that such
unusual penerosity will be known to
home itself are concerned, must be
well-nigh realized. The conditions which make home
ideal must, I think, vary much with ideal must, I think, vary much with
the disposition, tastes and am-
bitions of the man; but every man bitions of the man; but every man-
who intends to spend his Who intends to spend his life on the
farm ought, it seems to me, whether conscious of the fact or not, to be an
ardent admirer of nature. The man who doesn't know that sunbeams mile, or brooklets make music, or
that the twilight grows so quiet that the twilight grows so quiet longing lovelight of eternity, will
never do for a farmer. He might never do for a farmer. He might department of the farm, but as a real farmer and a builder of home, he will hardly do. He should go to sets him to studying the "" poetry" of the farm, and until he learns that not from a mercenary standpoint
alone the farm and home have a call alone the
for him.
And then, again, he who makes his must cultivate a taste for have and ife. The man who is ashamed of farm had better choose another calling. Mightier loves than those false pride and craven ambition are calling the farmer on to all that he
ought to be to-day. For the sake of the home that he loves, the aspirations he holds dear, let him toil on into the future opening wide
fore him, nor ever be ashamed
And i. .on cluaion tho mane

$$
\begin{aligned}
& \text { And, in conclusion, the man of the } \\
& \text { arm and the home must be one whe }
\end{aligned}
$$

and unwillingly, not from love to
and unwillingly, not from love to God
or man, but only for fear of being
thought stingy. Can God accept such a blemished offering? No plausible outside appearance can hide the blotches
from His sight. Is such a sacrifice offered to Him at all? Is it not rather done before men to be seen of them?
Then there is the surface "charity ? (hen there is the surface "charity"
(falsely so called) which gives money to a beggar to get rid of his importunity-
regardless of regardless of the harm the money may do
him-or which works for a charitable him-or which works for a charitable
association just because it is. the correct But en righteousness, which is But even righteousness, which is not
done to be seen of men may fail to be a pure offering. The taint of sin creeps in through an unguarded opening only too
easily. A bargaining spirit may dostroy the beargaining spirit may dewhich are not done for display. .This is
shown in St shown in St. Peter's question, "Behold,
we have forsaken all, and followed Thee : what shall we have therefore." Our Lord answered that businesslike question With the parable of the laborers in the
vineyard. Those laborers who began work vineyard. Those laborers who began work
early in the day, bargained with their master first, and recived exactly the
hire they had demanded for hire they had demanded for their
services. Those who came later made no services. Those who came later made no
bargain, but left the matter of their roward entirely in the hands of the householder, and lost nothing but rather
gained by their confidence in his gained by their confidence in his
generosity. There was a Jewish saying which brought out strongly this bargaining spirit: "If you aford alms out of your purse, God will keep -you from all
damage and harm." damage and harm." How gently our
Lord warns us against trying to buy Lord warns us against trying to buy
God's favor, telling us that we are not
working for a hard master who must be working for a hard master who must be
propitiated with gifts, but for a Father propitiated with gifts, but for a Father
who only cares for our gifts if they are who only cares for our girts if they are
an evidence of love. What need is there for children to bargain with their heaven-
ly Faither who knows what things we ly Father who knows what things we
have need of before we ask Him? The Father who seeth the secret righteousness which is the pure fruit of love, will
indeed " reward it openly,"-reward it by bringing out ever more and more per-
fectly the likeness of Himself in the child, and at the same time adding to him all things that are really for his
good and happiness. But how deep the probe goes, how
searching is the intense light searching is the intense light which
leaves no corner of the heart unexplored $\begin{aligned} & \text { The actions which appear } \\ & \text { beautiful }\end{aligned}$ outwardly must not only be beautiful outwardly must not only be
clear from all ostentatious display and
from the bargaining spirit which seeks to
lives not for time alone, but also for eternity. The Heaven home will be better than the best earthiy
can be. I think the farmer, as well as every other man, should know that this is true. Then, when the earth world smiles upon him, he will
not be unhappy; where business not be unhappy; where business
leads him he cannot be sordid; when
Home with threefold soice calls him Home with threefold voice calls him
for time and for etenity, he will for time and for eternity, he will
answer. For a man of busineis, a answer. For a man of businens,
child of nature, a husbandman Him who "feedeth the cattie thousand hills," is he who builds for himsell, to-day an "Ideal Farm Homerth Co., Ont.
© '. Take nobody's opinion for grant-
ed try all things; hold fast to ed ; try all things; hold fast to the opinions of others will help you by their suggestions, elucidations yand corrections ; otherwise they will ,be torrections, as words to a parrot."
tHenry but George.
$\qquad$
Read not to contradict and confute, nor believe and, take for
granted, but to weigh and consider.: - [Bainted, b

Possess your mind of facts, both scientific and commonplace. Aqquaint yourself, also, with other people's all conversation, all observation, all thought, go to the formation of an intelligent, capable individutal character of your own. Thus inspired,
fortified and equipped, work out life's problems for yourself.

$$
\begin{aligned}
& \text { also provoike no self-applause. "Whon } \\
& \text { thou doost alms," says.the Holy Mratter, } \\
& \text { " let not thy left hand know what thy }
\end{aligned}
$$

$$
\begin{aligned}
& \text { thou doest alms," says. the Holy haster, } \\
& \text { riget not thy let, hand know what thy } \\
& \text { right hand doeth." Our offering is no }
\end{aligned}
$$

$$
\begin{aligned}
& \text { right hand doeth.". Our offering is no } \\
& \text { longer pure if, like the Phaviee in the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { longer pure if, like the Phavisee in the } \\
& \text { parable, we look addmiringly at our own } \\
& \text { richtononnaus Ti. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { parable, we look admiringly at our own } \\
& \text { rightoousness. It is indoed a dincult } \\
& \text { thing to keep one's motives perfectly }
\end{aligned}
$$

$$
\begin{aligned}
& \text { thing to keep one's motivee perfectly } \\
& \text { holy. It might be lees dificult if the } \\
& \text { norichtenvese," }
\end{aligned}
$$

holy. It mighteousness," be leald be entirely hid

$$
\begin{aligned}
& \text { "righteousness" could be entirely hid } \\
& \text { den from public view, but that also is } \\
& \text { forbidden. Our Lord saya. to His }
\end{aligned}
$$

$$
\begin{aligned}
& \text { den from public view, but that also is } \\
& \text { forridden. Our Lord saye to His } \\
& \text { disciples that they have been net as }
\end{aligned}
$$

$$
\begin{aligned}
& \text { disciples that they have boen sot as } \\
& \text { lights to enlighten the darknees of the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { fore men,", He says, "that they may see } \\
& \text { four. } \\
& \text { good works.". }
\end{aligned}
$$

$$
\begin{aligned}
& \text { must not be altogether hildden from } \\
& \text { sight, but the motive which prompts } \\
& \text { them must be uneeasingly guarded. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Christians are required to let } \\
& \text { the world see plainly that the power } \\
& \text { of too working throuch them? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the world see plainly that the power } \\
& \text { of God is working through them , but } \\
& \text { this must be done that men may glority }
\end{aligned}
$$

$$
\begin{aligned}
& \text { this must be done that men may glority } \\
& \text { their Father which is in heaven, not in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { their Father which is in heaven, not in } \\
& \text { order to win praise and admiration for }
\end{aligned}
$$

themselves.

Under this severe yet tender scrutiny
how poor and unworthy our best ofler-
ings look, " all our' righteousnessea
are ings look, "all our righteousnessea are altar of our Most Holy God. How then can the promise, which is also a command, be fuliflled: "In every place in-
cenise shall be offered unto My Name, and a pure offering?
One Offering of a pure and stainless Righteousness we may present to God, the Sacrifice once offiered on the altar of
the Cross. That Offering alone is perthe Cross. That Offering alone is per-
fectly pure and undealed, and as we gaze more and more on the spotiess beauty of the one perfeat heman Life we
are inspired to purify ourselves more and are inspired to purify ourselvee more and
more so that we may dare to offer and present our souls and bodies to be a reasonable, holy and living sacrifice, acceptable unto the Lord because purifed
through union with the pure Offering of Christ's Body.

And now, O Father, mindiul of the That bought us, once for all, on CalAnd having with us Him that pleads We here present, we here spread forth to We here present, we here spread forth to
Thee only offering perfect in Thine The one true, pure immortal Sacrifice. Look, Father, look on His anointed

And only look on us as found in Him
Look not on our misusings of Thy Look not on our misusings of Thy
grace,
Our prayor so languid, dim :
For 10 :
We set the Passion sins and their re LorD." Passion of Thy SON our

норе.
THE SUMMER IS NEARLY HERE And I want to remind you about the
Fresh Air Mission in Toronto, which hes Fresh Air Mission in Toronto, which has received so much help from our readers.
A few days ago the following letter eached me:
" My dear first committee meeting in connection with our Fresh Air Work. I wish you
could have been with us ; we all look on vou as a very active member of our litthe band of workers. Mr. Gordon asked
me to write and asks you it you will me to write and ask you if you will be

Children's Corner.

## A TWILIGHT STORY

Araong the mountains and hills Norway, in a neat little cabin, there dwells a man and his wife, three small eighty years of age. eighty years of age.
the setting sung, just as the last rays of the setting sun cast their golden light grandpa for their eveniug story.
This evening, Mr. and Mrors
grathis evening, Mr. and mrs. both away. Grandpa was sitting in his big armchair, by the fireplace, quietly reading, when little Grace, the younge of the three, crept up on her stool by his knee, and slipping her tiny white hand - Please, Grandpa, tell Grace, say, "ong story." " Oh doo dear Grandpa,'
added Edward, coming forward. Grand added Edward, coming forward. Grand-
pa smiled at the two eager pa smiled at the two eager faces, and Who lay all day on a couch of pain
without all without a murmur, inquired, "Would ou like it, my darling
Walking mucross the Grandpa
up, then seated her comfortably on his
knee. With a cnee. With a suile of contentment, the
ittle one murmured, the pain." "What shall it be to-night?" Oh, a real story $\qquad$
" Very well, you shall have a real . J Just at the outskirts of the little village of Camperdown, in New England, youngest a golden-haired little boy called
children were as usual altarnoon the children while the mother was finishing the afternoon work. Little Geoff loved to
be alone, so the children paid little atbe alone, so the children paid little at-
tention when he, as usual, wandered off to a secluded part of the garden. No one noticed the sly old gipsy hag creep up to the little fellow, and, burying him back to the camp a little outside the town. Once there,
had cried himself t
was tucked carefully
was tucked carefully into one of the big all the gipsies sottled around the fires
and one by one fell asleep. and one by one fell aslee
". The mother called the children
tea. They came running in with lauch tea. They came running in with laugh
ing faces. Mamina spoke to anu carressed each one in turn. But, oh
what a look of horror came into har what a look of horror came into he eyes when she found her litlle Geoff wit
absent. She inquired of the childre
but they had not seen him. Now the but they had not seen him.
mother's heart was filled with anguish and, calling in a kind neighbor, sh
hastened in search of her child. What made her direct her steps toward th old gipsy camping ground? Why, that every afternoon hadn't an old woman
come to her door, a regular old gipsy, and asked her what she would take for the child with the golden hair "Oh! how long the road seemed to
the mother as she ran swiftly along,

What do you think of that, my friends About one-third of the childrem sent from the hot city to the country for a two
weeks' vacation went to homes offered b our readers. For two are sent togethe in every instance. And then a great many others must have been sent with
money contributed by you. You see, we
have such have such a lot of readers that a fer
cents from each makes a very cents from each makes a very large sum,
so it is well worth while helping, even so it is well worth while helping, eve
if you only send 10 cents apiece. Fo if you only send 10 cents apiece. For
a long time the children on the streets near me have been looking forward to
the possibility of going to the country the possibility of going to the country
for a vacation. Scarcely a day passes for a vacation. Scarcely a day passes
without my hearing the question:
". Teacher do "Teacher, do you think we can go to
the country this year."
That is the the country this year." That is the
question asked by the children who have question asked by the children who have
never yet had the chance. Those who went last year are taking it for granted that they can go again, and they in-
variably want to go to the same place. Which lonks as though they found a
thought loudly her heart did beat. She
i" She they must surely hear it. She came softly up, but wa stopped by a sweet voice, saying, "Oh clear, kind Jesus, send mamma to take her little Geoff home again." She gave
\& quick step forward; perhaps the sound awaikened the old gipsy, for she starte up just as the mother drew back in shel ter of a tree. The old woman stirred
the fire, peeped into the wagōn, and then the fire, peeped into the wagōn, and then
went and lay down again, muttering to herself.
"As soon as "the heavy breathing told ngain were all asleep again, the voice was
naised in prayer. This time the mother did not hesitate, but went quick ly forward, seized the little boy, and was son hurrying homeward.
A mid his sobs of joy, the little low told his story, and, reaching home, they knelt and thanked God for his safe eturn home."
up with tears in her eyes Peace, looking smile in her face, as Grandpa paused. "And is it a really true story? Who
is the little boy?" asked is the little boy?" asked Grace. Who your own Grandpa, who is telling this story, was the little boy who was tolen, and it was my own dear mother who, by God's help. rescued me."
M. HUESTON (age 14). Thorndale, Ont.
A very ambitious young auk Took $A$ notion he'd le
He practiciced a year.
Then mave
He practiced a year,
Then gave up with a te
For, "Bah! I do nothing but squawk.
squawk.
-Harper's.


Not Afraid of Ponto

ARE LARGE FAMILIES BETTE THAN SMALL ?
Affirmative.
I tell you they are a crown of glory to their parents, who, while they toiled and
denied themselves. denied themselves and their children too, of the luxuries of life, never though
they had too many children. Dear Cousin Dorothy, - I cannot help
nnswering Fred Hungerford "Too many children in one home" certainly not well, and pity the poor

$$
\begin{aligned}
& \text { This sound like a grown-up letter } \\
& \text { doesn't it But, for my part, I should }
\end{aligned}
$$ when they are taken as God's." But hey may give the parents little time for the " social life," depend on it, there will

not be too many. As for the quar
As for the quarrelling, is it a virtue to
keep from quarrolling when there is no

$$
\begin{aligned}
& \text { runs home to tell his mother? How can } \\
& \text { you play "e school," unless there is one }
\end{aligned}
$$ one to quarrel with?

Don't you think the Don't you think the children and
parents both are better for the training to each other, helping each other, and
This sounds like a gr

$$
\begin{aligned}
& \text { doesn't it it But, for my part, I should } \\
& \text { think all the child mould agree with } \\
& \text { it }
\end{aligned}
$$ Then they are taken as God's gifts, and

trained for Him and His service, though

$$
\begin{aligned}
& \text { it. "The more, the merrier ", in } \\
& \text { family. Who wants to play with that } \\
& \text { find }
\end{aligned}
$$

$$
\begin{aligned}
& \text { when he doesn't get his own way, and } \\
& \text { runs home to tell his mother? How can }
\end{aligned}
$$ which a family gives them in giving up each doing their share toward making the

home-life bright and happy and full loving kindness? I grant you it is not and casy, but do easy things make char-
ncter that is good ncter that is good and strong?
As to the problem of what would As to the problem of what would be is certainly a serious one, but all things are possible with God, and not a spar row falleth to the ground without His
notice, and, the hairs of our heads are nll numbered. Do you not know of any
no cases where the children have helped each
other? I know of a other? I know of a poor family of nine
children who studied hard in school, and children who studied hard in school, and
as fast as they were old enough to as fast as they were old enough to
teach, helped the younger ones to gain an edncation; until now only the and
youngest is at home, and all the the youngest is at home, and all only the others
are doing their work in the and well, whether married or in business. for the teacher, and one for the dunce, and several naughty children besides? know when we used to play "shop,"
we had to have a storekeeper, an errand boy, and several customers. It's the same in everything, and outside children
are not as good, are they

Whity came out of whity, and whity shity to go and drive whity out old Whity. Ans.-A woman came out of a white house, all dressed in white. She told her dog to go and drive the cow out of a buckwheat field, which was A little housse full of meat, no door to ket in to eat. Ans.-An egg.
Granddady diddle daddle, dancing in nud puddle, red shoes and green cap. Uuess all day and you can't guess that?
ns. -A drake. SADIE MATthews (age 11)
Blayney, Ont

Why is a badly-conducted hotel like a
them.
Teacher
Sometimes "Teacher, did you ever see am asked: have never seen Many of the little ones growing-I mean the children in the enement houses around me. Prolably cut off from country sights and entirely Children seem able to extract intense en Joyment from almost anything. get excited over a handful of dust
seraped up from the stone which they can mould into mud pienent, gardless of grimy hands and faces reterday I saw two little girls making What. they called "Easter eggs" out of children, for they live near a play ground with real earth in the corners of wira the main part is stone 1 will let you have the report of the Toronto Mission as soon-

fiddle? Ans.-Because it is a vile inn
(a violin).
Why is innkeeper like a great num-
ber of people? Ans.- Because he tion ber of peop
host himsell $\qquad$
BESSIE McBRIDE (age 10). $\begin{aligned} & \text { A riddle, a riddle, as } \\ & \text { hundred eyes and never a mospose, a }\end{aligned}$
Ans.hundred eyees
A cinder-sifter Black we are, but much admired; men
seek for us until they are tired; we tire
e horse, but comfort men. Ans.Why is the nose in the middle of the When is.- a Because it's the "scenter." article ? Ans.-When she appears in
print. When is love deform
is only on one side. $\qquad$

One of the institutions in Canada which has come to stay is the Cana-
dian Club. From city to city these clubs have spread, and at their inthe most distinguished men available, are asked to speak. At a recent
dinner, given by the Toronto branch the Rt. Hon. James Bryce, British Ambassador to Washington, was the zerland as an object lesson, he re-
viewed first the obvious advantages viewed first the obvious advantages
of a democracy, then passed on to the faults commonly assigned to it
(1) Intolerance of party spirit (1) Intolerance of party spirit
which is supposed to make people
pive their allegiance to party, rather give their allegiance the of the nation ; (2) the power of party machinery to put the power in the hands of sell
serving groups of men; (3) the
abuse of public office for private gain (4) the power of wealth to corrupt
politics. Switzerland had escaped
these faults remarkably these faults remarkably. He ap-
pealed to Canada to learn from her,
to aim at purity in politics, at right. ideals. "It is a great deal easier,"
he said. "to set a high tone than he said, " to set a high tone than
to reform a low tone. Once the
standard is set, it should be lived up standard is set, it should be lived up
to. And you in Canada, gentlemen,
have two very great advantages for making your country a fine and high Type of popular government stock,
have the advantage of a fine sto
a stock from the best blood that the a stock from the best blood that the
the Conference the adoption, as general rule, of the Drago doctrine, which prohibilect international debts.

Notwithstanding assertions to the Notwithstanding assertions to the
contrary, it seems that there is some-
thing in the method for burning thing in the method for burning
ashes discovered by the Altoona, ashes discovered hy Elmore. At a
Penn., cobbler, John
recent test, two tons of coal were recent test, two tons of coal were
burned in a furnace, and the ashes
were burned immediately afterwards. were burned immediately afterwards. According to the affidavit of those
who made the test, the ashes gave who made the test, the ashes gave
off one-third more heat than the coal, very little smoke being emitted in the process. It is said that Mr. Ellmore has been offered large sums stroy or suppress the secret. miversally diffused education,
literature which can come home everyone, and of examples in the
past which the earlier days of our common ancestors in Great Britain have bequeathed to you of what politics may be. May the blessin to make your democracy worthy of these conditions, worthy of the enormous opportunity which you have
before you in this country." The defore you in this country,
visit of Mr. Bryce is the first that British representative at Washingto has made, officially, to Canada, an the precedent set by it augurs muc
for a better understanding of Can ada's interests, and a closer relation ship, not only between Canada and the motherland, but between the nations, and the
over the border.

British and Foreign Sir Sydney Oliver will succeed Sif
Alexander Swettenham as Governo of Jamaica.

Great Britain has made an official request upon Russia to include in the programme of the next Hague or the expenditure on armaments. * *

The revolt in Roumania is about the British in "Jack Cadde's" rebellion, were armeaving been terrified into submission by the artillery used by the troops. Numbers of women are fighting with the peasants, and seve the dead.
A CANADIAN - BORN CELEBRITY. The recent announcement that Mr. presidency of the Great Northern Railroad, has brought again before the especial notice of the reading men of modern times. Although most of his life has been spent in
me United States, Mr. Hill is a child of the Dominion.
September 16 th,
Has
Hern September 16th, 1838, in a obscure
log house at Rockwood, an or
village about forty miles west of Toronto, about which several mem-
bers of the family still live. His bers of the family stiry Irish, and for
parents were both Trest many years kept hotel at Rockwood.
From the first, however, young James did not seem to " take to "
the hotel. He was fond of school, and, in general, quiet and reserved in
manner, choosing rather to busy himseli' with a book than to engage in the pranks of his schoolmates.
When he was fourteen years of age

Name me, and you destroy me. Ans.-
Silence.
iWhet thrift and a feather-bed? Ans.--One is hard up and the other is soft down.
Why is the letter B like fire? Ans.-BeCause it makes oil boil.
What is most like a hen stealing? Ans.-A cock robin. -P. G. (pig without an eye).
What is that word of five letters of What is that word of five letters of
his father died, and he decided to go
to work. To the suggestion that to work. To the suggestion that
he should help in the hotel, he lent he should help in the hotel, he lent
a deaf ear, and, instead, applied for
a position in the village store across a position in the village store across
the way. Here he spent four years as a clerk, serving fathrully, and, no doubt, forming rosy plans fo
the future in the way of youths of such ambition and confidence. In 1856 he determined to see something of the world, and went to New York, farm near Syracuse.
But the lure of the West was beck-
oning to him, as though the fates oning to him, as though the fates
had already fixed upon the coming man who was to throw open a vast, man who was to country as none before him had dreamed. With the inten
tion of joining the Red River trading tion of joining the Red River trading.
brigade, he went, in 1856 , to St.
Paul, only to find that the brigade brigade, he went, in 1856, to
Paul, only to find that the brigade
had gone. He had little momey, and had gone. He had little money, and
it was necessary to find a situation. it was necessary to find a situation. Casting about, he drifted as shipping Packet Station, where he speedily distinguished himself by his insatiable love of work-none too com-
mon a quality among the employees mon a quality among the employees
of the station. In the meantime a few tottering railways began to creep


Which When you Lake aw he remains? Ahs.-Stone. How would you express in two letters
that you were twice the bulk of your hat you were twice the ( Ans. $\mathrm{I} \mathbf{W}$ (I double you)
companions? Describe an old suit of clothes in two Ifters. Ans.-C D (seedy). If a man met a crying pig, what anit
mal would he call him? Ans.- Porcupine (pork y

TENA THOMSON (age 12).
and when he undertook the erection
of an inimense transfer house, it was a question if his working powers ware not still further taxed. Yet he ound time, too, to fall in love with and marry a pretty waitress at the Mehegan. It may be noted at this point that Mr. Hill's married life has been exceptionally happy; and, in aising his family. of nine chirdren,
he has proven himself, doubtless, ac cording to the theory of the present President of his adopted country, a
true citizen and laudable example for true citizen and laudable example fo
the United States of America. After this he organized, in rapid succession, the firms of J.' J. Hill \& Co.; Hill \& Acker; Hill, Griggs \& finally, in 1878, the Northwestern Fuel Co.- in this way launching out anto many wholesale enterprises. He also, after a time, got control of
several newspapers, which he used as weapons to extend his provinces. In 1870 he, with his partner Griggs, built a small steamboat fo
tratic on the Red River. This nucleus quickly developed into a fleet of steamers, with which Mr. Hil came into competition with the tr Determined not to be outdone personally undertook the
work of establishing points
of trade, going often by dogof trade, going often py dog-
sled or on snowshoes from point to point, in the face of
seemingly insuperable diff seemingly insuperable diff but lost his life in a bliz zard, But the future mon-
arch of the Northwestern U
S . was to be saved for his work. Then, by aad bye
the Hudson's Bay Co. found it advisable to form a com-
bination with him, and the keen strife was over. For Hill's hands.
Not long afterwards he hecame a partner with Doneld Smith (now Lord Strath
cona), the far-famed Comcona), the far-famed Com-
modore Kittoon, and George
Stephen (later Lord MountStephen (later Lord Mount-
Stephen), in-baining contrb1 Stephen), in paining contro
of and developing the St
Paul \& Pacific Rail way Oo and developing the St
Paul \& Pacific Railway, He
risked his entire fortune in Thsked his entire fortune in
the enterprise, and again
won. Under his marvellous won. Under his marvellous directorship as general mah
ager of the road, success
came steadily, Obster came steadily. Obstacless
and they were many-only fired his ambitions and many-only creased, $\mathrm{h} \mathrm{i}^{\prime} \mathrm{s}$ bulldog de
the youth's active imagination was able to conjure up hordes of people,
networks of radiating out over the as yet unpeopled wildernesses that extended
on every side. Possibly even then on every side. Possibly even then
it occurred to him that he should have a hand in urging onward this trade, in peopling those wildernesses
with the human train that Envariably with the human train that nvariably
follows the steel pathway into fer follows the steel pathway into ler-
tile wastes. At all events, in 1865 he started in business for himself a
commission steamboat and railway commission "steame" in question be agent, the "ugency" in question be
ing for the little St. Paul \& Pacific ing then ten miles long.
line, them this time his rig
From
e was rapid From this time his rise was rapid,
Within a few months he secured the agency of the Duluth Packet Line o
river steamers, and of the Chicago \& Northwestern, Milwaukee \& Prairie
du Chien and Illinois Central roads du Chien and Illinois Central roads twenty-seven! Along the levees it was declared that "I Jim Hill work 24 hours a day, and 25 on Sunday,"
id. he looked Personally, it

## was said detail

 of road, and gradthe tangled network before him the most perfect system of railway man agement on the continent. In lowild-ing the 6, ,oo miles of railway which ing the 6,011 gradually miles of railway which evinced a power for economy which became an eye-opener to other railparison, squandered money. And the time the interests of the stockholders had been at Mr. Hill's heart As president of the organization now had pledged his word that both, in lerest and dividends should be forth coming at specified times, and, al proached, he was forced to spend sleepless, nights in wrestling with he problem as to how his promise was to be made good, he was no on and returns became surer wen tension was relaxed ; then, quietly

Mr. Hill began a plan for the benefit
of the holders, which was to bring to many great joy. Quietly he bought up great tracts of land from
the lumberman-iron-bearing the lumberman-iron-bearing land-
then, last October he announced that a deal had been made with the U. S. Steel Co. for the sale of over $700,-$ 000,000 tons of iron ore "in Minne-
sota, the proceeds, between $\$ 450$ sota, the proceeds, between $\$ 450$,-
000,000 and $\$ 600,000,000$, to go to the stockholders of the Great Northern. . .. Mr. Hill had put the crown
upon his work, and now, doubtless upon his work, and now, doubtless,
at the age of nearly seventy years, he feels that he can take a well-
earned rest.
Mr. Hill has always been simple in
his habits, and democratic im his thought. In spite of his strenuous
life, he hes life, he hes found time for much
reading, and has develo reading, and has developed a fine
taste for art. As regards his business methods, he has been, if exacting, remarkably clean. " Exact-
body's,", from whose compilation most of the above facts have been
gleaned, prefaces a note of introduc

With the Flowers.
HYACINTH BULBELS - PLANTING MÁPLES-VINES FOR VERANDA. The following letter has been re" My first connection with 'The Farmer's Advocate, dates back a number of years. When a little
girl-a farmer's daughter-I used to girl-a farmer's daughter-I used to
try to solve the puzzles, with the aid try to solve the puzzles, with the aid
of a dear friend of our family who
lived with us at lived with us at that time. He hás
since passed over to the great be Since passed over to the great be-
yond, and many changes have taken
place, but still place, but still 1 am an interested
reader of 'The Farmer's Advocate, "I am now a farmer's wife, and find so many helpful hints on house-
keeping, and anything regarding keeping, and anything regarding
Health in the Home and With the Flowers I enjoy very much. I would like to ask some questions regarding
flowers. I have a Hyacinth whing flowers. I have a Hyacinth which is
done blossoming, and several young shoots are starting around it. I bulled one up, and it has a bulb at
the bottom. Are those the bulbs for another year, and how should I
care for them? Is the old bulb any use? If so, how should I keep it ? Also, what is the best kind of
a vine to plant to train a vine to plant to train around a
veranda facing the south, where the veranda facing the south, where the
sun shines very hot in summer ? I have tried Morning Glories, but they
wither and die before the summer is gone. ${ }^{\text {"W When is the thest time to plant }}$ hard-maple trees, and is it possible
to give them too much water? We planted some a year ago last June,
and watered and mulched them free ly good-nature have not imposed on your success, I will retire.
" Elgin Co., Ont." MPLE LEAF. Regarding the question about the
Hyacinths, Mr. Wm. Hunt, of the 0 . A. C., a well-known authority, says: el mentioned is of no use. It would takes three or four years at least to grow it on to produce a bulb large
enough to flower. Our climate is enough to flower. Our climate is
not suited for the propagation and production of these bulbs. ". The old bulb also is of very little use again, more especially as a
pot plant. if it is a variety of the
Dutch Hyacinth, it mirht be dried oft gradualiy by giving less be drater un-
til the foliage has turned yellow, til the foliage has turned yellow,
when it should be kept quite dry
until summer and untin summer, and planted out in the
garden; but unless the bulb is an
extra rood extra good one, it is scarcely worth
the trouble. If it is a variety of 'it is not worth growing again in any
way. It is best to buy fresh hulbs the trouble. If it is a variety of mulch of straw, leaves or strawy
the early-flowering Roman Hyacinth, horse manure around the plants to
it is not worth growing again in any prevent alternate freezing and thaw-
way. It is best to buy reesh hulbs ing, which oiften does much damage
every autumn for pot culture,",
For a veranda to the roots, especially of young For a veranda vine, nothing can shrubs. It, is well. also, not to
he better than the hardy wild grape, force the growth of shals,
which covers well is he better than the hardy wild grape, shrubs. It is well, also, not to
force the growth of shrubs too much
which covers well, is of an especially hy overfertilization, especiallv in the
Weasing greeen, and keep)s its, leaves latter part of the season. for it is
thon tu a sthes of "Romances "The time is passing when the note sordid accumulation of vast wealth may be acclaimed success. We ar fanancial brigand, drickster, The however richly he may have reaped is being classed with his reaped, crooks. But all the world wants to whose personal triumphs have meat benefits multiplied a hundredfold for
the nation; men who in the nation; men who, in blazing their own trails, have opened wide, safe,
clean paths for their countrymen And the first man of whom the mag. azine treats in this list of men mag-
have opened "clean paths," is Mr. have opened " clean paths," is Mr.
Jill. Canadian mothers may not be able sibility of being their sons the pos-dian-born men as Mr. J. J. Hill manbe pointed to, examples of what Canadian boys born in $\log$ cabins
paniculata is also to be recommended. While waiting for these to grow, you might plant Coboea scan-
dens, or Aristolochia, both of which grow quite rapidly.
Maple trees
Maple trees may be planted either, has started, or in the fall, say oc tober. Where winters are long enough and severe, however, spring planting is the better, as the trees
are thereby given a chance to estab-
lish themselves before weather sets in.

SHRUBS HARDY IN NEW BRUNS-
WICK.

A New Brunswick subseriber writes 'Will you kindly advise me what shrubs would be hardy in New
Brunswick ? sets in latter part of November willy hard frosts and no snow till times 1st January. Snow goes off asually in the middle of March, and that. Would particularly like to know if Wistaria would winter well
if carefully If carefully covered?
W. She following answer, given by Mr Ste. Anne de Bellevue, but College, of New Brunswick, will probably be oound useful by readers living in same extremes of temperat to the New Brunswick : ${ }^{\circ}$ temperature as New Brunswick. The hardy in shrubs are hardy in any part of New Vanswick: Spireaa arguta, Spireaa Caragana arborescens (Siberian Pea Tree), Cornus Sibirica (Siberian Dogwood),
(Japanese $\begin{gathered}\text { Hydrangea } \\ \text { Hydrangea) }\end{gathered}$ cera tartarica (Tartarian Honeysuckle), Ribes Aureum (Flowering (Mock Orange Syringa) coronarius (Japanese Rose), Viburnum opulus (iAigh-bush Cranberry), Viburnum lantana (Wayfaring Tree), Viburnum
opulus sterile (Snowhall opulus sterile (Snowball), Potentilla
fruticosa (Shrubby Cinquefoil). The various Lilacs, such as the white, purple, Charles X., Persian and Vil-
losa. ${ }^{\text {. }}$. Th
are: Pinus Mughus (Wing evergreens Pine), Juniperus Sabina (Common
Savin (Irish Juniper), Juniperus Hibernioa (False Japanecse Retinospora filifera spora plumosa (Plum-like) Retino press), Retinospora plumosa aurea
(Golden plumose Retinospora).
./ ing to protect the a snow-covering to protect the young plants is
not constant, it is wise to
mulch of stace ing, which often does much damage
$P_{\text {anden }}^{\text {and }} P$ LOWS

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properly ripening, and results in loose condition with the hoe, so
winter-killing.
"/ Shrubs should be kept free from that proper root development can
 The Ingle Nook. There was a little woman-she didn't
live in a shoe-oh, no-but perhaps she
had so
 What to do. The spring was breaking,
the sonow melting and gurgling off in
little the show melting and gurgling ofr in
little cascades and rivulets, and the air
wais full of that expectany wit was full of that expectancy which tells
of an awakening thrill and motion through awakening thrill and motion
looked nate. The little woman tooked out and thought of "what a
terrible job it would be to clean up that
backyard when all the snow was ofi", backyard when all the snow was off."
By-and-bye the snow was. all melted By-and-bye the snow was. all melted
away, and the backyard was cleaned of
the away, and the backyard was cleaned of
the chips that had accumulated some-
how during the winter how during the winter. Down in the
marsh the willow osiers burned in
patches of scarlet and purple, Patches of scarlet and purple, and be-
neath them the marsh marigolds came
out in a golden flame. out in a golden
woman saw the the. The little
the stopped to think about them, or to look
at them. When the children brought them
in she in, she only scolded about the " muss,",
they made, and fell to feeling miserable they made, and fell to feeling miserable
bectuuse Mrs. B. across the way had got accause Mrs. B. across the way had got
a new parlor carpet and a new set of
furniture for her best room. "Mrs. B couldn't. Well, the housecleaning had to
be done anyway, so she might And so she buckled down to her house-
cleaning, and, after that cleaning, and, after that, to the garden-
ing,
derful ithout ever a thought of the wonwith an "inward eye " bent doggedly on future dinners and the saving of ex-
pense; and thus the spring passed into
summer and the autumn into winter augain.
Great masses of fleecy changing cloud
had passed had passed over the sky, piling up into
mountains, and round towers, and great woolly islands, all interfused with light.
Rosy
Rel Rosy sunrises and purple sunsets had
come and gone, and strange skies of pale green, and saffron, and red-orange. The
marsh marigolds had given way to the cardinal flowers, and the wild roses, and
briar, and meadow-rue had blown
 White. But the little woman had seen
nothing of it all, or if she had seen, it
Wer Was perfunctorily, and without a single
thrill which told her that after all the
world is fheot world is good. As with Peter Bell, the
soft blue of the sky had never "melted"
into her heart soft blue of the sky had never "melted"
into her heart, and the primrose by the
river's brim had never been to her than a yellow primrose. And, by-and
bye, when the ing, she said she was glad that the
winter winter was coming, because there would
not be so much work to do. Neverthe
less, I have heard less, . . have heard say that $\begin{aligned} & \text { whem } \\ & \text { the winter came she still found enough }\end{aligned}$ ha more than enough for hour hands to
and mough
do, and that she quite forgot do, and that she quite forgot to care
that the hoarfrost was on the big apple
tree, or that the evergraens ing under a downy burden, or that a snow wiamonds on the surface of the
wunning off and ofl betimes, she went until she dropped at ant last into
her grave, feeling all her life that the beatriful things of this her.
been for hou not think of a woman
Now can you somewhat different from this ? woman
DAME DURDEN. I have come upon an extract from an
address given at one of the Women's In-
stitute conventions, by Prof. J. W. Robertson, the well-known froiend of the
Canadim rural world, which bears somewhat indirectly on the foregoing. It is
so good that I must so good that I must give it to you.
Even though you have read it before, it
will bear re-reading. And who, on read-
. ing it, must not realize that a practical
man, an intensely practical man, man, an intensely practical man, may
also be a poet, and that he may rejoice

WHAT IS WORTH WHILE?
" I think of the time when one is old and says, "I am tired; I have had my
fill; I have been at the feast; I have
drunk deeply of every lawful cup; I am
willing to sit back; I should be glad of
quiet and to enter upon the long rest.'
When a man When a man is fupon of years, he may
pass in review the days gone by.
Perher

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extraordinary one, as you will realize by extraordinary one, as
the following description.
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roy. Ont., writes: " Defore using Dr. Chase's Nerve Food my nervous systom
eemed all unstrung. I could not sleep had no appetite, hands and feet cold, my digestion was poor, and I had jerking of
the limbs. The first box of Dr. Chase'i the limbs. The first box of Dr. Chase't
Nerve Food helped me, and I continued Nerve Food helped me, and I continued
until I had taken 24 boxes. ment has made a radical change in my condition, building up the system anc strengthening the nerves. I would strong
ly recommend it to all suffering from
nervousness.

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Toronto, Canada.

## "The Maple Leaf" CREAM SEPARATOR.

The separator that gives the best results.

Perfect skimming. Smooth cream. Enclosed gears. Easy to operate.
Reliable active agents wanted where not represented.

Write now.
Tho Canadian Manuficicuring Co.,
182-186 Shearer St., MONTREAL.


## New "Success" <br> Riding Plows <br> Our "Success" Riding Plows <br> are entirely new. Vast im kind. Wonderfully simple to

 Our Free booklet will tell you all ahool them. Writo foritParis Plow Company, Limited PARIS, ONTARIO. WINNIPEG, MANITOBA.
and the gecond was my yeast was not
Atrong enoush
now ued grong onough. II now use Fivo Roose
four, and I will give the may I make my Yeast. Save about a quart ot potato
water and sone ot the potatoes when water and some or ohe potatoos when
you boil them at dimnertime; mash them up as ane as you can; have it about as
thick as other yeast. Then, when about cold, add two yoast cakes which have
 I lee tit stand three days betore using it.
II yoast doos mmel strong, neverer mind; it


 Collow the general diractions in the book
1 got with the eroad Malker, only whero it seys 3 quarts of four to one quart or
 three ouarts of liquid and dight quarts
of four (lyy the
liguld
1 mean water and
 less than some brands. Tr put in a small piece of butter, about the size of an oegs:
one tablespoonful of salt. $A \mathrm{AB}$ tor the
ond mixing, Ijuat do as it says on the lid

 rise enough to liit the hid about two
inches, then I turn the mixer till it
 onto the bake-board. $I$ put in about
hall
haup of four to tolp clean the


 Cossis.
At H. C. M. Millan's sale of Percherons
. at Sioux City, Towa, March 20 oth, 27


 Coration . Three others sold tor 81,110
to 81,35 .
Volume 5 of the American Leiciester



 ewes, togeter with the rulues governing
entries, the reports of annual meetings,
At the annual sale of Herefords from
the herd of F. A. Nave, Attica, Ind.,
 March 28 28h, 27 temales brought an
average ot $\$ 255^{2} 23$ bulls an averasge ot

 Missouri, for the four-year-old cow, Nut-
brown 9th. The highest price for a bull
was $\$ 600$ Tor the two-year-old, Beau
for was $\$ 600$ for the two-year-old, Beau
Nash, purchased by J. H. Haslam, of
Halbrite Sask. Canada.
Mr. T.
manager
A.
of manager of Langton, now Oak Park,
Stock Farm, writes: .. Stock is all do-
ing finely; have 25 choice young Berking finely; have 25 choice young Berk-
shire pigs, from imported stock, for sale. Hackneys are doing well; have a few
choice ones for sale. Made a sale re-
cently of three first-class Hackney mares cently of three first-class Hackney mares
to Mr. John Endicott, Detroit, for a
fancy figure. We have just got moved to
Oak Park farm, late the property Oak Park farm, late the property of
Capt. D. Milloy, 4 miles from Brantford
or Taris, on electric road, passing the farm every hour, and will welcome
$\qquad$
$\qquad$ Meadow Lawn herd of N. P. Clarke,
Minnesota, 12 bulls brought an average
of $\$ 302 ; 40$ females, an average of $\$ 333$, and the 52 head sold for an average of
$\$ 326$. The highest price was $\$ 1$ ano for the red two-year-old, price was $\$ 7$ th $\$ 1,000$
Guchess of
$\qquad$
$\qquad$
know, I would bo ghad to explain

 much more time and labor. 1 Ilite . The
Farmers
Advocate,
very
much Farmers Advoato" very much. The
letera
trom the Inglo
Nook ard


> Butter Tarts.

Dear Dame Durden, -1 am sending yo for the pastry. Pastry.-Sift 2 cups of flour with on level teaspoonful of salt, then mix is When a cup of lard and 1 cup of water of a cup of lard, and roll out again Filling.-One egg (beaten well), \& cu of sugar, \& cup of butter, it cup of
currants, essence of lemon to suit your aste, and a little cornstarch.
Halton County, Ontario.

## RECIPES

Coffee Fruit Cake.-One cup molasses 1 cup brown sugar, 1 cup butter, 1 cup raisins, 1 cup currants, 1 egg, 1 cup
coffee, spices to taste, 4 cups Sugar Cookies.-One cup sugar and cup butter creamed together, it cup milk Five Roses flour, in which 2 teaspoons baking powder and a little graaded nut.
meg have been mixed, to make a dough

An imported, registered Shire stallion
is advertised for sale in this issue. Look is advertised for sale
up the advertisement.

```
sale dates clatmed.
```

April 16th.-Woodstock, Ont., 60
Clydesdales.
April 17 th. -J. L. Clark, Norval, Ont.,
Clydesdales.
May 9th.-W. J. Thompson, Mitchell,
Shorthorns.
May 23 rd.-G. A. Gilroy and G. H.
Manhard, Holsteins, at Brockville, Ont.
At the Fraser House stables, London
Dalgety Rros., of Dundee
sell another consignment. of 18 imported
Clydesdale mares and fillies. Without
doubt, this is one of the best lots they
great size with abundance of as they do.
Quality and the most fashionable breed-
ing, all going to make this lot one of
the most desirable that has been offered
by ruction this year. Several of the
are in foal to leading sires in Scotland
and several of them are high-class sho
mares. For particulars, write to Jame
mares. For particulars,
Dalgety, Glencoe, Ont.
TRADE TOPIC.
REARING CALVES FOR THE
DAIRY.-How to raise calves successful
ly without full supply of new milk is
a question that repeatedly presents itseal
to the dairyman. The first week is easy
enough because the dam's milk is avail
able.
able. The first food, which may be
given two or three hours after birth,
should be drawn direct from the udder
should be drawn direct from the udder
into a clean pail, and fed at once at the
into a clean pail, and fed at once at the
temperature at which it is drawn. Be-
ginning with a quart or so three times
ginning with a quart or so three times a
day for a few days, it should be gradu
ally increased, and then fed twice a day
for two
for two weeks with new milk. If the
supply of new milk is limited
tart
start with bibby's Cream Equivalent
gruel may be made at this
gruel may be made at this stage, but
when gruel feeding is commenced thus
carly (two weeks)
early (two weeks), the change should be
made very slowly and carefully
made very slowly and carefully. It is
better, when new milk is available, to
better, when new milk is available, to
feed on that only for a month. The
change to Crearm Equivalent gruel may
now be made in the next few days, but
the quantity of the next few days, given at daych
he quantity of gruel given at each meal
hould not exceed three quarts for two
should not exceéd three quarts for two
weeks or more, then gradually increased
to four quarts, which should not be ex-
ceeded till the calf is four months old.
co four quarts, which should not be ex-
ceeded till the calf is four months old
The calf and calf is four months old should be kept
scrupulously clean, and dry, well
scrupulously clean, and dry, well ven-
tilated and lighted, with plenty of sun
itht admitted, and regulerly

| $\begin{aligned} & \text { red roan } \\ & \text { C. R } \\ & \text { (thers } \end{aligned}$ |
| :---: |
|  |  |
|  |  |


$\mathrm{A}^{\mathrm{T}} \mathrm{H}$ Yalley Milla Poultry Ranah-Fertlo oges



























 F










 Why




 MAMMOTH BRONZE TURKEES-Sirod



## Egos for AgtGhing Whit Wyandotito.   orne poottra, manager.

Adroerthemen till



 $\mathbf{B}^{\text {UY rioh harnimg and gresing hand in quen }}$ $\mathbf{F}^{\text {OBTY }}$ leading variotion of atrawberty and
 $\mathrm{F}^{\Delta \mathrm{AMM} \text { hand of all deacription in Manitobe }}$ leat






















 $W^{\text {NTRD }}$ at onco Single man to work on
 $W^{\text {ANTED- Rxporien ood ingiglo man (or mar- }}$


Pur
IN PORTED SHIRE STALLION


 BOX 84 Harrloteville, Ont. Every thought of our minds, every act
of iour hands. has in some degree an
thical basis.

## CLYDESDALE

Mares and Fillies

## PALGETY BROS., Dundee, Scotland.

To be sold by Public Auction at the PRASER HOUST, King Street, London, Ont., on

## WEDNESDAY, APRIL 24th, 0

 At 1.30 pmEighteen extra choice imported Clydesdăle mares and fillies, several of which are in foal. This is an essentially high-olass lot, with abundance of size and quality and very richly bred. A number of them are show animals, and, we think, the best lot we ever imported.

Addrees all correspondence to
CAPT. T. E. ROESON,
JAS. DALGETY,
Auctioneer.
Glencee, Ont.

## CARNEFAC <br> GROWS IN FAVOR

The best substitute for new milk. It is an absolutely sure preventive and cure for 'indigestion or scours in Calves or Younss Plge, and many of the best stockmen grow better calveis with CARNEFAC than with whole milk.

It costs but a triffe, is a convenient tonic, and, never fails to give satisfaction.

Positively no substitute will do its work. If your dealer has not Carnefac, write us direct at once.

Carnefac Stock Food Company

QUESTIONS AND ANSWERS.


 sid. In veterthary orteritions, the symplome
 4th. - When a reply by maid is requirea it Veterinary.
INJURY TO SPINE.
Five weeks ago my two-year-old filly
became stiff in fore part. She had rouble in getting her nose to the
ground; ate fairly well; lay down, and
could could rise without dificulty. No swelling
or soreness to touch: appeared to be nervous, and did not want to be
andled. Now she cannot get her ne handled. Now she cannot get her nose
lower than her knees. She has not lain down nor apparently changed in condi-
tion for ten days.
J. Ans.-This filly has had a fall, or redeived an injury in some way unknown
to you, and has injured her spine. Give her a purgative of 6 drams aloes and 2
drams ginger. Follow up with 1 dram nux vomica, three times daily, and keep
her as quiet as possible in a box

WEASEL'S SKIT FOR WORMS. Is the skin of a weasel good to feed to
horses that have worms or bots?
Ans.-I have never fed weasels, H. E. orses; neither has the physiological achons of them been studied by scientists, what the actions would be, but, on
what general principles, I would not recom-
mend their use mend their use. For worms, give recom- 1 dram
each of sulphate of each of sulphate of iron, sulphate of cop-
per. calomel and tartar emetic, twice
daily per, calome and tartar emetic, twice
daily for six days, and follow up with a purgative of 8 drams aloes and 2 drams ginger. You need not worry about hots,
nature will

## Miscellaneous.

COURSE IN FORESTRY
Would you be kind enough to inform me of the name and address of a school of
orestry in Canada? Ans.-We are not aware of th. R. ence of a school of forestry in Canada.
although the existless attention subject receives more or less attention at various institutions.
The students at the Ontario College, Guelph, receive a course of lec tures on the aggicultural phase of
forestry, and the University is inaugurating a chair of forestry. Toro


TPHE RVANS VACUUM CAP is a practical invention constructed on and normal circulation is restored tbroughout the ecalp of which a free blood vessels are gently stimulated to activity, thus allowing the food supply
which can only be derived from the Which can only be derived from the blood, to be carried to the hair roots, the There is no rubbing, and as no drugs or chemicals of what soeverth of hair. employed, there is nothing to cause irritation. It is only necessary to wear
the Cap three or four minntes daily
60 DAYS' FREE TRIAL! The Company's Guarantee.




 int prooest, the prolem of hair grom. without resorting to any fryitat-


 1n illustrated and descriptive book of the Erans, on application. Vacuum Cap will be sent, post THE SEGRETARY, EVANS VACUUM CAP CO., LTD., REGENT HOUSE, Rogent St., London, Eng.

## AMERICAN FIELD FENCE <br> All No. 9 Galvanized Wime

Made for All Purposes
Note the hinge joint makes
the "American" fit the hills
and hollows, the tension
ard contraction.

ADVOCATE ADVTS. ALWAYS PAY

- cossis. Mr. A. J. Russell, Northumberlan teen herds of Aberdeen-Angus cattle have been started in one township in that county within the last ten years, an future this will be the leading breed beef-producers in that section of the Province.
J. L. Clark's clydesdale sale On April 17th, as advertised in this Ont., will sell, at auction, eight highclass imported and Canadian-bred mares and fillies, an imported Clydesdale stallion, rising four years old, and the
grandly-bred and stylish rodstar grandly-bred and stylish roadster stal-
lion, Wildbrino King great old Wildbrino, together with a arge number of extrack good dairy cows
and other farm stock. ${ }^{\text {The imported }}$ stallion is Duke of Savoy, a bright bay, White face and feet, sired by Handsome
Prince (10356), who was one of the best Prince (10356), who was one of the best
sons of the noted Prince of Wales (673), Dat of the premium mare, Pandora, by
Darnley (222). Pandora was also the
dam of the great breeding horse Mains dam of the great breeding horse, Mains
of Airies, while the dam of Duke of Savoy was by the famous Sir Everard progenitor of champions, Baron's Pride.
Such breeding should be a pretty good Such breeding should be a pretty good
guarantee that Duke of Savoy will prove a very prepotent sire of the right sort
stock, while, individually, he is as his breeding. The four imported
fillies, rising three, are big and beautiful,, good colors, excellent quality of
bone.
fect,
and action, sired by such grand horses as Baron Mitchell, by
Baron's Pride, and his dam by Prince of Baron's Pride, and his dam by Prince of
Galloway, a son of Prince of Wales; Ma-
jostic jattic, one of the best show horses, and
sires in Scotland, sired by Sir Everard and full of the blood of Prince
and
Wales and Darnley, Wales and Darnley; and one by Argosy,
one of the best sons of Sir Everard, the
aire sire of Baron's Pride. The matched pair of registered Clydesdale, mares, Norva
Queen and Princess-May, rising 6 and Queen and Princess-May, rising 6 and
years, winners at Toronto, Winnipeg and
Brandon Brandon, weigh 3,700 lbs. in show shape
and are handsome, stylish. movers, and have the best of bone, pas-
terns and feet, and are supposed to be in terns and feet, and are supposed to be i
foal to imported Clydesdale stallion.
number of good work horses geldings are also incluced in the sale
Norval is the station, on G. T. R., 25
mive miles west of Toronto, and Snelgrove, C
P. R., on Streetsville and Owen-Sound branch. Teams will meet trains at both
station.

TRADE TOPIC
We MODERN IMPLEMENT PLANT, We received from The Frost \& Wood
Company, of Smith's Falls, Ont. the other day, a special supplement to the and giving an interesting description of
the new plant recently erected company. This supplement is profusely
illustrated with good half-tinn cute is printed on excellent paper. The plant
of the Frost \& Wood Cold the finest and most modern in Canada out machinery of the very highest grade.
Their many friends and customers hroughout the Dominion will be glad to rom the setback given them by recovered Which destroyed their plant a year ago,
and that in future they will be in a bet-
ter promptly. Reports have been circulated
freely throughout the country that Frost \& Wood Company would not have
any binders to put on the market any binders to put on the market for the
coming harvest. These reports the com-
pany emmhaticn sure purchasers of binders that they a
depend upon getting their machines plenty of time. If any of our readers
would like to see an interesting descrip
ion of a machines are built, they can do so form Wood Co.. Smith's Falls. Ont... to seny them a copy of the Record supplement.
Kindly mention this paper when doing
so.


The Profft in POULTRY RASME To make a market bird consume a
large amo unt or or fattening food with
increonoung a p peetito, isto insure good




## DR. HESS

Poultry PAN-A-EE-A


 ciantorsed by the leading pooluntry-ce-aso-
Coant in United States and Canada.

$1 \frac{1}{2} \mathrm{ll}$. package, $35 \mathrm{c} \quad 12 \mathrm{lbs} .81 .75$,
$5 \mathrm{lbs}, 85 \mathrm{c}$. $25-\mathrm{lb}$. pail, 83.50. Send 2 cents for Dr. Hess $s$-page Poultry
Book, FREE.

DR. HESS \& CLAR Amhtand, Ohlo, U. S. A.

George U. Ham tells how he met a
man in Winnipeg one day who
in announced posed to ". jump on the Canadian Pacific.," much as Horace Greeley's sub-
scriber announced that he The Tribune. had "stopped do you? answered Mr. Ham, proceed
ing on the theory turneth away wrath. in Thent answer advise you to buy a ticket first, fo you off at the next station." The famous Hackney-breeding stud o Eben D. Jordan, of Boston, has been
sold to Fred Pabst. Jr., of Milwaukee.
Wis number, being included. The horses have been shipped to the Pabst farm at
Oconomowoc, and Wisconat Claim that the and Wisconsin horsemen
clation of these famous Hackneys puts their State in the front
rank of horse-breeding States, not only or show horses, but for trotters and
pacers. Included in the string are stallions, Gentleman John and Dilhan
Irime Minister. which have attracted at tention and prizes in the show-rings of

CANADIAN horse Show-NEARLY The Canadian National Horse-show Which will continue the Canadian Horse Show, now in the thirteenth year of its
existence. It will be held this year in the St. Lawrence Arena, Toronto, a pose, on May 1st, 2nd, 3rd and 4th. As he Spring Stallion Show provided i

 $\$ 7,000$ will be distributed. The entries
close on Saturday. April 2oth, and should be addressed to the secretary, w Bratark, Sovercign Bank, Market
Branch, Toronto. The chairman is Mr. Genrge W. Beardmore, M. $\mathbf{F}$. H., and the
manager. Mr. Stewart Houstor manager. Mr. Stewart Houston, 182 Vic-
toria Street. Toronto. All prospect
point to a spores.

APRIL 11, 1907
OUESTIONS AND ANSWERS Miscollanoous.
SHEEP-DIPPING TANK Would you kindly inform me where About what size would I require? Ans, -Wo do not know of any maker of steol dipiping tanks in Canadvertised in United States stock papers, even those devitod exclusively to
shoep, as they were. a fow years ago From this me wodgo that years ago acture proftable. A dipping vat may be made of 14 -linch plank, tongued and grooved, and put together with white
ited, or may bo lined with lend or may bo lined with zinc or gal-
vanitiod iron. Or it may be made of coment concroto, as watering troughs are yoing made by many farmers. The The
dimensions for a small fock need not be arger than $\frac{4}{2}$ foet long, 12 inches wide 21 foot high for lambs and shorn sheep,
the lambs to be laid on their sides and packs in the vat, and the sheared sheep io dipped up and poured over them.
alfalfa on bush clearing. 2. have air acres of pasture land with spring, and would like to know if it it
would pay to sow alfalta on it for pasture. The land is limestone, and high
end dry. There will be lots of ashes on $t$ when it is ${ }^{8}$ burnt. Would it need covering, or would sowing before a rain
do ?
SUBSORIBER. Ans-We must admit that this case is
experimental., so far as our own knowlodgg is concorned, but wee eee no reason
why the plan should not prove an excelWhy the plan should not prove an excel-
fent one. $A s$ the land is intended for pasture, however, we would not advise sowing alfalfa alone, for there might be danger of stock bloating. By admixing
a proportion of grases, this danger may A proportion of grases, this danger may
be practically obviated.
Try 10 pounds alatafea seed por acre with a pound of
timothy
2

 not only to cover the geod, but to mix
the soill and ashes. II there tis an althe soll and ashes. If there is an al-
falata field within three or four miles, we Tould recommend hauling a load of surface loam from it, and scattering over
this field to inoculate it with tho nitrothis field to inoculate it with the nitra
gen-gathering bacteria. pear scab-roup. every yoar, but the pears get milldewed. or get scabby, and crack all over, so
that they are not fit for use. Would spraying belp them, and what Would
they be perayed with, and when 2. My hens make kind of coughing or sneezing, noise. The heads of some swell, and they get blind in one eye, and
sometimes in both, and aater a week or sometimes in both, and after a week or
two they die. I have let them out
dery two they die. Al haver. Give cause
every fine day all wintor
and cure. Ans. -1. Thorough spraying, according
to directions given in our Calendar Guide to directions given in our Caiendar Guide
to spraying papes 532 and 588 , iseuve to spraying, pages 532 and 588 , issue of
March 288th, 1907, will almost or entirely prevent this trouble, which is due to
the scab fungus. You will note that
In the frrst spraying is done with copper Subsequent antution before the buds open. mixture, which is essentially the same
thing with lime added to prevent thing with lime added to. prevent injury
to foliage. Instructions for preparing both will be found in the above-named issue.
2.
It is roup, in one of its manifold
 communicable in some cases to chlldren
It is most frequently
communicated trom one bird to another, through the the
medium of the drinkíng trough. Kill all sick birds. Disinfect all roosts, nests and houses thoroughly.
cleanse theroughly
With cleanse thoroughly with disinfecting
fluid all feeding and drinking utensils, fluid all feeding and drinking utensils,
and, for some time, add a little Stockhollu tar to the drinking water, or else
one of the proprietary roup cures to be had from dealers in poultry supplies, ad
vertising
from
time to time in these



THE FARMER'S ADVOCAIE.



Oup Real Estate seapehlight penetrates everywhere. We advertise in over two hundred leading newspapers in Canada, the United States, and Great Britain. We have nearly the same number of agents in Ontapio assisting us in making sales. For this service we do not charge you one cent unless your property is sold, exchanged, or withdrawn from sale.
Our Real Estate Monthly describes thousande of cholce propertles which wo have on our list. Wilte for

## When Wilting Adventisens Please Mention this Paper.

Cow Aminge. We have a cow that calved about four daye ago, and the hat not done well yot. Could you tell us what to do for M. I. L. Ame-We cannot tall what the cow's aliment may be without lnowting the symptoma. Probably if she lo kept clean, dry and comfortable, not milked out too closely, and fed on mixed hay and bran, with \& proportion of eniellage sure that the afterbirth has come array. If it hat not, bettor call the votoriaarian.
RHGISTRATION NuMBERS. Kindly tell me the rogistration nume bere of Coorsock and straven Callant, time by Robert Staven, of Oohing.
wood. Ans.-Corsook [460] (4920). Fonled in Bros., Claremont. Corsock 2nd [2078]. foaled in 1852, bred by Robt. Divite,
 Sweotheart (imp.), by MacGrecor
Straven Callant (imp.) (1478) (6925),
foaled 1872, imported 1874, by Jaimen Lawrie, Scarboro, sold to Col. Holloway, of milinois.
Streaven, Oallant leos] ( 8826 ), fonled in
1885, fmported in 1888 , Bros., Claremont. These by Graham ownery named tin the studbook record.

CURING PORK-KICE ON

1. Will you kindly insert in your paper the way to cure pork, after thken out of keep ft for aummer use ?
2. What will kill lice on mesp?
Ans.-1. Severel methode for curt

 Water. Heat olowly till selt in ditolvod. or 6 wook. Then emoko avery day tor miture of \& lbe good ane selt, If tho brown sugar and 2 ozs. baltpotro, and op ihree times for hams and hhouldors, whece for bacon, rubbling in (3oll, at fin ask. Use 7 libs., valt, $1+1 \mathrm{ibo}$. clem 00 libe. mpat. Rub well in, pack th moat in the calk, uatag and the pack, the about once a weok. In about reven weoks the hame may be talien out son our meat is already in brine . We 'rhoul ay smoking it would be the west guald 2. Insect powder, dusted into th arted the only aate thing to us in early spring. Later on, etter the
sheep are clipped, dipping owes and Jambs
in one of the commerciel oheep olipo neep are chipped, dipping owee and zambe
none of the commercial thoep dipp ad.


Let this Machine do your Washind Free.




 Not Alotibe evor hoo glate ontit lower riae eow dight







Net prodele on tho turb boltom ditro tho ouny










 Butit from Amonts getal nee ;oo are con.



 Krow theo



 Sonese ite. Toronto, Quht

UNTHRIFTY HORSE
quality (containining daisies). oats, with bran, and a little linseed meal occasionally, also a few turnips, is very thin. He did not gain flesh last ummer, on good pasture Ans,--Get your veterinarian to dress his bief trouble, even though he is horse. Give him a purgative of 8 dr aloes and 2 drams ginger. Follow
vith 1 dram each sinpert. With 1 dram each sulphate of iron, gen-
itan, ginger and nux vomica, three times
laily, and if you have no goon he aily, and it you have no good hay, feod
g.
good straw.

QULSTIIONS AND ANSWERS.
Voterlinary.
SORE EYES AND COUGH
Sheop took torre eyes and cough last
tail. They still cough, and their lambs
are. affected wilh cough, and their lambe
aliso, eough.
Ans.-The
ophthalmia.
ophthalmia, Isolate the affectedi; bathe
the eves well with warm water, three times doaily, and, with warm mater bathing, thrree
tew drot a lewe drops of the following lotion into fuid extract of belladonna, 10 grains; distilled water, 2 ounces. The cough mas
 diaappear when the weather becomes fin

## laryngitis.

 and ee-year-old colt has a bad coughawallow. chokes, and it hurrs him to
sw Ans. -He nent of equal parts litquor Make a liniot turpentine and raw linseed oil. Rub dis throat with this twice daily for three
days. Give him 8 drame chlo potassium, three times daill, by placing
it well back on his tongue with a spoong Cauno him to inhale stoam by holding his daily. If breathing becomes iabored, ther complications arise, send for your therinarlan at onc

> UNTHRIFTY MARE. Bought a a nloe fat mare last summer. has been getting worse ever since. Sha wininates frequently, but passes only - milk of milike luid. в.

Ans.-Got Your veterinarian to drosa 8 drams aloee and 2 drams ginger. Five her par Iow this with \& drams nitrato potassium, once daily for four doses, and
follow this
with 1 dram iron and 2 drams each of sulphat and nux vomice, twice daill. Foed well and give regular exercise. ERYTHEMA
Pregnant mare has itchy legs, and they
are swollen from hoofs to god hair comes oft in patches hocres. Th are hot and itchy, and there have been I clipped the legs, and Ans.-This is a skin disease called not be wise to give medicines internally Dress the loga, three times daily, with a 1otion made or 1 ounce each sulphate of
tinc and acetate of lead and $\frac{1}{2}$ ounce arbolic acid to a pint of water. Give her reguar extercise. Do not apply any
grease
will subside. Ahe foals, the swelling ERYTHEMA.
Four-year-old draft stallion has little
umps betweon tetlock and hoot legs. When washed, they are very red and discharge corruption. Ho has very hairy legs, and it is very difficult
keep them clean and dry Ans, - Horses with beefy legs, with large quantity of coarse hair, aro pre
disposed to disenen dsposed to diseases of the skin. Do no
wesh his legs under any conditions they get wet, underer any conditions.
tiil dry
with cloths un til dry, or allow them to dry naturally
and then brush them clean.
Purge him with 10 drams aloes and 3 dramge ginger
Follow up with 2 ounces Follow up with 2 ounces Fowler's solu
tion of arsenic Tor a weekenic on hres his food, twice daily
with butter of antimesores, once daily feather tor of ourtimony, applied with a
times. Then dress, thred
taill times daily, with a lotion made of
ounce each sulphate of $z$ zinc and acta of lead and ounce carbolic acid to pint of water. Fed lightly, and, as
soon as the roads become dry, give him regular exercise. It is probable you will
IIways have trouble with hio

An Irishman was giving a spirited adss on the glories of the British na fiter describing some affronts re-
troul other nations, he exclaimed

## Profits Paid Emal Profits Estimated

On the rates now in force the estimates of profits made in 1900 and placed in the hands of its agents have been fully realized by the
London LIfe Insurance Co. Head Office:

LONDON, CANADA.
This is but one instance of the care ful representations made by this Company

SAFE INVESTMENTS. CAREFUL MANAGEMENT LIBERAL POLICIES.

## EMM/ N C $\square^{\circ}$ BE F D

Used by Successful Ganadian Sowers for 38 Years.

Selected from the very oholcest stocks, they can be depended on to give "Best Results." Sow EWING'S select high-grade brands of

## CLOVERS andTIMOTHY

They have become synonymous with what is "genuine pure seed" and "the best obtan genuine pure

WRITE FOR A CATALOGUE.

## William Ewing \& Co.,

Seedsmen,
142-146 McGILL STREET, MONTREAL.

The only medlum which conveys weakily to the nessers of Canada, the adventisen's place of buslAND HOME 52 times a year, Is THE FARMER'S ADVOGAT AND HOME MAGAZINE. Subsorlption, \$ท.50

## LIVER COMPLAINT.

The liver is the largeot ciand in the bodys in The liver is the largeot giand in the bodys in hich form bile. When th. liver is torpid and lnfaned it oninnot furnish bile to the howola mumptons are a feeling of fulness or waichi in the right side, and shooting pains in the men recion, paine between the ahouldera, yellownem d the akin and oyes, bowela irresular, coated

## MILBURN'S

${ }^{\circ}$ LAXA-LIVER PILLS
aro pleanant and ensy to take, do not urito Wnoken or sioken, never fail in their ollionto, and
Price 25 cents, or 5 bottles for $\$ 1.00$ Price 25 cents, or 5 bottles for $\$ 1.00$ rico by The T. Milburn Con Imited Toronto, Ont


The Rennle seed Oabinet.
Erach year the "Rennie Seed Cabinet," in every dealer's store, is replenished with new - crop seeds, fresh and full of vitality. No old stocks are carried over.

In this way users of " Rennie's Seeds" are protected from the disappointment that invariably results from sowing old seeds lacking germination.

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Toronto and
190 McGill St., Montreal
Main St., Winnipeg
66 Hastings St., West, Vancouver.

## cossip.

McDougall Bros., Tatehurst, Quebec
dvertise in this paper for sale a number of registered Clyde stallions and mares,
bred from imported stock. Parties interested should look up the advertisement, an
ant rite them for particulars.

Messrs. N. A. Steen \& Sons, Meadow
vale, Vale, Peel County, Ont., report their
Whitehall herd of Scotch and Scotchairly goocthorns doing well, and sale Scotty, contributed by them to the the
Provincial Sale, at Guelph, in February Provincial Sale, at Guelph, in February
last, sired by the Jilt bull, Royal Scott $=49813=$, and out of the Cruickscank-
bred cow, Cecelia 17th, by British bred cow, Cecelia 17 th, by Britisi
Statesman (imp.), sold for $\$ 135$ to R
Dickson Dickson, Guelph, the highest-priced an
mal in the sale, which speaks well the character of the Whitehall herd,
which is of the highest class of wreeding
and type. -
R. E. Gunn, manager of Dunrobin
Stock Farm, Beaverton, Ont., writes that trade is good in medium stock, but high
class show animals are a little dul Yorkshire swine are booming. Advance orders for Dunrobin Yorkshires are piling up, but with thirty-odd sows to farrow, personal supervision one farm under the should be lots of good ones. In Short horns, there are a few good young
things for sale, and the cows are dropthings for sale, and the cows are drop-
ping some splendid calves. The Olydesping some splendid calves. there are a dozen young ones to come, so
a busy season is expected, which will re a busy season is expected, which will re
plenish the barns and fill the vacant places, from which many good ones
been sold during the past season.

The five-year-old registered Clydesdale stanion, Lord Lachian, whose picture ap
pears on another page in this paper, is
for pears on another page in this paper,
for sale. He is owned by Mr. Moses
Bock, New Dundee, Waterloo County Rock,
Ont.,
Oew
Rear
R.).
Detersburg
He is Ian [4205], a son of Imp. Lothian Top (imp.) [3948], and his dam, Waterside
Queen, by Waterside traces to Lady Hallman (imp.) (imas5), The cut, being on a small scale, fails to give a correct idea of his size, but shows his good quarters, strong limbs of
good quality, and his well-balanced con good quality, and his well-balanced con-
formation and proportions. He is described as having good action and disposition, and a good stock-getter.
good driver would be taken as part

## ment.

LAST CALL FOR THE MAMMOTH Sale of clydesdales. Tuesday, April 16th, at Woodstock,
Ont., will be a red-letter da in Clydes dale transactions, as that day will mark the epoch of the largest sale of importod
Clydesdale pares, fillies and stallions Clydesdale pares, fillies and stallions
ever held in Canada, when 60 head of imported mares, fillies and stallions will be offering must contain animals of the type
that will suit any man. Every one of that will suit any man. Every one of
this large number is registered in the Scottish Clydesdale book, and, of course, is eligible for registration in the Canadian National Clyde book. Many of
them were winners of more or less repute hem were winners of more or less repute
in Scotland, and many of them are show mares of a high order. There is scarcely' a sire in Scotland, of any repute, that is
not represented in the lot, and now is the not represented in the lot, and now is the
time to buy, as another fall there is certaine to bey, as advance in the price of im-
tain to ported fillies, and nothing in sight would
indicate any falling off, either in the indicate any falling off, either in the de-
mand or price of draft horses for many mand or price of draft horses for many
years to come. The purchase of an add1tional brood mare or two is certain to be a profitable investment. Parties attend
ing the ing the sale, and wanting time for pay
ment, must make arrangements before the
sabee sale; otherwise, terms will be cash.
Tuesday, A pril
Whath, is the Woo
Wond
ten


## Unreserved Auction Sale

Of Imponted Clydesdalé Filles, Impointed Olydetcdaie (supposed to be in foal). These mares aro show animals-Toronto winners.
Also Road eter St-lilon, winner itomito Spring Show and it thio
 Canadian National Exhibition. Along with the abore ohoice animale will be
sold a number of First-clase Work Horees (mares and geldinge).

Sale will be held at Lawnildge Farm, Nomval, Ont,, on
WEDNESDAY, APRIL 17, '07.
All trains will be met-Shelgrove, O. P. R.; Norval, G. T. R. Those wifhing to make enquiry previous to sale may do so by telephoning the proprietor. Salo to commence at one o'olock. In oase of bad weether will be under coverer. Terms: On furnishing approved joint notes-atallions, ten months' oredit;

John Bmith, M. P. Pr GAuetlanaers. d.-L, OLARK,
Benja Petoh NOAVAL, ONT

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stook it.
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loose skins and plenty of good hair. If interested, write us for a free copy of "How to Rear Calves for the
Dairy." A postal will do. WM. RENNIE CO., LIMITED,

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A QUICK NEW CURE

Norl
 pictur thelocation of yRuFE. Wuptrank on the gicciong and mait tise to ${ }^{\text {Age.........ime Ruptural }}$ Doos Ruptare pain?
Doyou wear a Trues? Natane....
Addreme.

For Sale riaist Eficioivo


GOSSIP The registered hay four-year-old clydes
dale stallion wild Ratepayer (imp.), dam Polly [183], b field, by Major Hunt (imp of May tield, by Major Hunt (imp.).) is adver
tised for sale in this paper by his owner
ar. tised for sale in this paper by his owner
Mr. A. Grady, Castlemore, Peel Co.
Ont An ont.

## Mr. J. W. Burt, Coningsby, Wellington Cor, Ont., near Erin Station (C) P R





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wh. agar, manager.

## REGISTERED CLYEsDALES for gale  

QUESTIONS AND ANSWER Miscellaneous.

ASHES FOR POTATOES-CORN IN ORCHARD

1. In applying unleached hardwood ashes to potato crops and to sugar beets, should it be applied before or after planting, or sowing, to get best results and what quantity should be used 2. Would it be injurious to th orchard, trees being 30 feet apart, and ten years old, to sow a crop of en Ans.-1. Apply early SUBSCRIBER. with 1. Apply early, and mix well ashes per acre. If you have any left over, use them in the orchard, or on clover or alfalfa seeding
2. While corn is not the worst crop to
grow in an orchard, being planted late grow in an orchard, being planted late
and usually and usually well cultivated, still it
would be better to leave the land entire ly to the trees, except, perhaps, for four or five rows of corn in the center of
each space.
CALCULATING A Ration. On page 1800, Nov. 15th, 1906, in an
article headed, "/ Feed to Purchase," you article headed, "Feed to Purchase," you
figure out the nutritive ratio of a daily figure out the nutritive ratio of a daily
ration, also on green sorghum. Could
vou give an explanation of how this is you give an explanation of how this is
figured out, and please state what the figured out, and please state what the
two dots (:) between the figures stand
Ans.-In figuring out the nutritive Ans.-In figuring out the nutritive
ratio of a ration, reference must be had to some reliable table giving the percentage of digestible protein, the per-
centage of digestible centage of digestible carbohydrates, and
the percentage of ether extract (mote commonly known as fat) in each particular feed that enters into the composition of the ration. Such tables are given in the appendices of all standard works
that treat of feeding. There is a good table for the Canadian farmer in Dean's "Canadian Dairying." Jordan's "Feeding of Animals" and Herry's "Feods
and Feeding" are also excellent books and Feeding", are also excellent books
with full tables. No farmer should be without such a work. Having found, by reference, the percentage of digestible pro-
tein in a feed, tein in a feed, multiply it by the num-
ber of pounds of that feed in the ration and divide by 100 . For instance, suppon we are feeding an animal 10 pounds of clover hay per day. Good red-clover tein; 10 pounds will containt. of pro$6.8 \div 100=68$ pounds. On the same principle, we find it will have 9.58 pounds carbohydrates, and .17 pounds ether extract or fat. Carbohydrates and
ether extract serve similar purposes the animal body, both furnishing heat, energy and body fat, but a pound ether extract win produce almost 2.3 a pound of carbohydrates, therefore we multiply the pounds of ether extract by 2.3 , and add the product to the pounds of carbohydrates. In the above in-
stance, therefore. We have and fat equivalent to $3.58+.351=8.981$ pounds of carbohydrates. The nutritive ratio of clover hay will be as . 68 (the weight of protein) to 3.931 (the amount
of carbohydrates and fat) terms of carbohydrates. Dit), expressed in side of the equation by 68 gives us a ratio of 1 to 5.8 . This relation is com-
monly expressed by the colon (:). Whe we wish to make up a ration, we simply set down, in black and white, what we rect daily allowance per animal. Then
and fein casting up the total pounds of procarbohydrates and fat (in terms of car bohydrates),
figures out.
figures out. We If the how the ration
shows an unnective ratio of protein, recuce the amount of nitro genous feed, such as bran, oil cake and
pea meal. If, as is more often the case it has toal. If, as is more often the case, hydrates for best results, reduce the corn meal, barley meal or timothy hay.
or else, as an or else, as an alternative, add some
more nitrogenous feed to it. For
cow, cows, a ration of 1:6 is all right, al-
though feeding standards airy though feeding standards are not to be
followed too religiously ly a guide or help to the intelligent feedor,
ment.

## 40 WAVERLY HACKNEYS 40 <br> Imponted stallions and Fillies．

Every one a high－olass a otor and a ahow animal．Splendialy－matohed pairs
and singlees．Positively the highest class lot of Hackneys to be tound on any


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Long－distance＇Phone．

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Best Collection Stallions in America Most Reasonable Prices Safest Guarantee

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sEND For catalogue WE PAY FREIGHT AND BUYERS FARE
DUNHAM \＆FLETCHER，Wayne，III．
Clydescale thenv imotot，anaing in inse foom
first－class Hackney．Wm．Colquhoun，Mitchell，Ont．
Phone to residence．

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CLYDESDALES and HACKNEYB
Our Clydes now on hand are all prigewinners，their breding le fill－

＊RAHAM
RENFREW，BEDFORD PARK，ONT，

## OURSTIONS AND ANSWER

Miscellaneous
HARD MAPLE FOR BARN TIM－ Have got out hard maple timbere ior a barn．When speaking to the fram－ er，he advised me not to use them，say－ ing that they were liable to powder－ ave used，or know whether it is suit－ able for the purpose or not．Would very much like to have your valuable opinion on the subject．
oLD SUBSCRIBER． Ans－－Hard maple is more or less open
to
ter．Wie oljection raised by your carpen－
tont wo would not hesitate to use it er．but we would not hesitate to use it
on that account，after having gotten it out，as it will probably last quiten long
enough．Proliably one objection the carpenter has to the maple is that it is
rather hard to irame．

CONCRETE FLOOR－BUSHEL
BOX． 1．Is concrete a satisfactory floor for
dai：y cattle withuv a covering ？ 2．Give diniensions，of hox for holding
one bushel of potatoes．What thickness one bushel of potatoes．What thickness
of material would be suitable？ Ans．-1 ．Hundreds of thousands of cat－
tle stand on concrete floors with no tle stand on concrete floors with no
covering but the bedding，and that some－ covering but the bedding，and that some－
times none too plentifult，and few com－
plaints plaints are reporte？．At the same time
it is saffer and better for feet，legs，ud－ ders and general welfare to lay plank or
boards on the cement in the fall；they may be taken up in spring．
they should be well－bedded．

wood strins．Inside dimensions of this
hox are 18 inches long， 14 inch s wide， and 12 inches deep．If desires，the ends

RAPE ON FALI WHEAT
1．Would rape，sown on wheat this
pring，produce hog pasture after arvest ？
2．If so，when should I sow？
3 ．Should I hew 2．If so when should I sow？
3．Should I harrow after sowing？ 4．How much should I sow per acre．
The soil is heavy clay．
J．B． Ans．－In his excellent book on forage
crops，Prof．Shaw writes of sowing rape in the spring on winter wheat or rye as soon as the land will bear a team of horses to drag a slant－tooth harrow
over the seed．He suggests using only over the seed．He suggests using only
one or two pounds of seed per acre，as the risk is less in case of a dry season． leave the impression that there is a fair chance of securing，on ordinary soil，a but on heavy clay the conditions would be none too favorable．＂The Farmer＇s Fall wheat is too good a crop－
tice．
with which to sow clover．Seed the field with which to sow clover．Seed the field
to meadow，and grow hog pasture else－ bull failing to feed well． Have a Shorthorn bull which is not
feeding．He will not eat chop of any kind：will eat whole oats，hay and man－ hels．Ihave been ferding a handful of
linseed meal most of the winter，three
times daily．His apnetite seeme times daily，his appetite seems fairly zood，excent for chop or meal and
turnips．What shall 1 do to again in nce him to cat the chop？SUBSCRIBER． Ans．－We cannot suggest anything make him eat chop，but would try a lit－
the bran，with the whole oats， eats a reasonable amount of this mixture， coarse－ground（nutted）oil．cake prefor seed meal，as the chewing of the coarse－
wround a ake stimulates salivation，which
aids digestion．If he would scoop whole


Standing 0ffer


The Repository
EURNS \＆BHLPPARE，Promes


Oop．Elimcee and Woleon Ceen Toremee ariotlon Beler of



 SHETLAND PONIES： fileotiwat


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HAMILTON \& HAWTHORNE, SImooe, Ont. Ex milles sonth-wet of Torontio on the G. T. B.


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Winchester, Ont.
Estabiighed for over 30 yeara.
Importer and exporter HACKNEY.
SHIRE CLYPESDALE and New importation of winnars
just arrived. 90
miles west just arrived. 90 miles west
of Montreal on C. P. R.


COLUMBUS, ONT.

 Lonld-diletanoo 'phone Myrtio Etation, C. P. R.
Imported Clydesdale Stallions and Fillies. Having sold most of my
leaving for Scotland for
leaving for sootland ior
the grrioal of whioh
columns of "The Farmer"
Andrew Aitchison,

QULSTIONS AND ANSWERS. Miscellaneou*

SCRATCHES. Can you recommend a good remedy to
scratches in horses ? Ans.--Prevention consists in being care ful not to overfeed with grain, and giv-
ing exercise when not at reaular worbing exerecise when not at regular work.
Keep the parts ory and clean, and avoid
washing wirt
warm water . washing with warm water, unless care-
fully dried and bandaged immediately after. To cure a case, frst give a
purgative ball of of to 10 drams aloes pargate drams ginger, according to
and
Feat size Feed bran till purgation ceases, and very
little grain till he is put to work. If the case is chronic, follow up with 3
drams nitrate of potash twice daily for week or ten days, or with one to one
and a half ounces Frowler's solution of and a hals ouncess Fowler's solution of
arsenic, twice daily y for a week.
treatmeal treatment depends upon the weather.
Lotions, oils or ointments are generally used; lotions in warm weather, or when
the patient is used on dusty the patient is used on dusty roads or
fields, but oils or ointments are preferfiflas, but oils or ointments are prefer-
able in cold weather. Sometimes they
 is made of 1 ounce each of sulphate of
zinc and acetate of lead, t ounce of carzinc and acetate or lead, tounce or car-
boticaceaid, and a pint of water. Peraps
the best ointment is one dram oxide of zinc to six drams lard; rub once a day.
Before applying Before aplying either lotion or oint-
ment, poultice, every six or seven hours
for Ior a couple of days and nights, with
poutticeso
litle powdered chan linseed meal and a 1ithle powdered charcoal, then use the
ointment or lot
lotion daily. If the legs get wet rub them dry; if muddy, allow them to dry, and OOVEER CROP FOR ORCHARD. What would be the best crop to grow
on an orchard, to plow in, to enrich and loosen the soil, rape, buckwheat
cow peas or clover. and when the best time to-sow it? The trees are
 Ans. All the above crops are good,
with the exception of cows peas mider are adaptecteption of cow peas, which
ourse
In addition ours. In addition to the above crops,
hairy
vetch is unsurpassed as a a cover crop for soils in need of nitrogen enrich-
ment. few succesful peach-growers, and for poor land, where it is hard to get a
catech of other crops, rye is to be highly recommended, but be sure it is plowed
under early the next spring, else it will rob the tres. Rotation of cover crops
is advisable.
Sow rye one anr the next. vetcthes the next. and so on,
being guided in selection of ever, by the condition of soil and growth of trees. If they are making ex-
cessive
woodgrowth, use oats or rye, cessive wood-growth, use outs or rye
instead of vethee hat clover.
Do not
sow clover too often in or an exeressive often in a a peach or orchara, nitrogen may
be accumulated, and to be accumulated, and too liberal fertiliz-
ing with nitrogen is not good for the
peach trees or Peach trees, or, rather, for the peach
crop. Sow the cover crop about middle of July, whenever the soil is well mellowed and moist.

## TRADE TOPIC

SNIDER'S BEST EARLY Potato,
advertised in this paper by Mr. Thomas




You assist your fathinner, "I suppose by entertaining


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HORSE OWNERSI USE

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Dr.Page's English
Spavin Cure.



No hair, Manothoured by br Mritarlok


Clydesdalo Stallions and Mares,

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ment.
The Nobleman
omp.



H. H. Boag, Barrie, Ont.

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a corn and oat fred, bplendd value.
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 Aberdeen-Angus - Our herd in 1006 won all

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a big knee like this, but Jour horse may have a bunch or bruise on his Ancie, Hock, Stitle, Knee or

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will clean them off without laying the horse up. No blister, no hair gone 2.00 per free ABSORBINE, JRo, for mankind, 81.00. Removes Soft Bunches, Cures Varicose Veins, Varicocele, Hydrocele Ruptured Muscles or Ligaments, Enlarged Glands. Allays Pain. Mfd. only by

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before buying. Our farm, "Simooe Lodgo," is nituated before buying. Our farm, "Simooe Lodge," is nituntod near Beaverton, on James Bay and G. T. Reilway.
Long-distance 'phone No. 18. Visitorn will be met at Long-distanoe 'phone No.

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 for with much interest by dairymen all over Canada. For immediate sale are eight bulls, fit for service, nearly all
sired by the Toronto champion, Blue Blood of Dentonia, some of them out
imported cows, and some of them las imported cows,
fall's winners a to Toronto, London, Otta
wa Wa and Halifax, a rare, nice, straight
lot, fit to head any herd. Begides these are some ten bull calves. In heifers,
there are six yearling tor there are six yearlings for sale, and a
nicer bunch would be hard to find; but Messrs. Bull's pride is centered in 20
heifer calves, and justly so, for they are a sight worth going many miles to see; an evener, straighter bunch was prob-
ably never seen together. The whole
The herd is in splendid condition, and the
owners declare the herd note so many high-class animals as at present.

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Don't try keeping hens and lice at the same time. If you do, the lice will have the benefit, the hens the
annoyance, you the experience. Get rid'of lice before experience costs too much. Dust hens, nests, platforms, every nook and cranny with

## Instant Louse Killer

One or two applications will rid the house and henspofevery mite and Loody
louse. Instant Louse Killer Kills lice louse. Instant Louse Killer Cills lice
on poultry, horses, cattle, sheep ticle, on poultry, horses, cattle, sheep tiche,
bugs on cucumbers, squash and melon vines, cabbage worms, slugs on rose
bushes, etc. It is also a perfect disbushes, etc. It is also a perfect dis-
infectant and deodorizer. Sold on a written guarantee. Comes in shaker-top can for convenient use winter or summer. See that the word
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 Sond your name and adires
 ARLIMGTON SHORTHORNS AND LEICESTERE



For Sale: Scotoh Shorthorn H. K. FAuREMMM, TMHEROMD, ourr.

THE FARMER'S ADVOCATE.

## SCHOOL LANDS SALE

The School Lands of Manitoba are nearly all sold, but we can ell you farms on practically the same terms, viz

## Ten Per Cent. Cash and Balance in Nine Yearly Installments,

with interest on deferred payments at six per cent. per annum. These farms are all in the Province of Manitoba, and are within for catalogue and may stations, markets and schools. Write to us

McINNIS © CLARḰ,
Bank of Commerce Building, BRANDON, MAN.

G. Rankin\& Sons, Wjobrilige, Ont. Importors and Broeders of
GHORIMHORN OATNLT and OXIORD DOWA SHIMIP.
 Rowan Hill Hend of High-clase SHORTHORNS

A. Duncan \& Sons, Carluke, Ontario. MAPLE + GROVE + STOOK + FARM sootoh a Topped SIORTHORIS
 prices. For particulars write to
 Ry.. O.P.R. Farm nne-half mile from station. Bamear of pre Bown bion


 8 SCOTCH SHORTHORN BULLS

 DAVID MILME,

Ethel, Ont
J. Watt \& Son



 SMTHFILLD STOOK FARM
Shorthorns \& Yorkshime

 $\longrightarrow$ Shorthorns \& Berkshires
 Jobn Racov, Lomonoxville, Que. Advertlse In The Farmer's Advocate and Get Good Resulte

QUESTIONS AND ANSWERS Miscellaneous.

ALSIKE-ROOTS.
Whevent them getting in on alsike straw Which goting in calr? hetter food for bulls?
2. There is little difference; 2. There is little COOLING THE BLOOD How much sulphur should be fed to a What is any danger of feeding too much? What is good for a horse's blood to cool
it ?
Ans.-A tablespoonfull, twice a week, o a large horse. Care shauld be taken oo avoid letting the horse get wet or
cold while sulphur is being fed cold while sulphur is being fed, as it
opens the pores of the skin, and renders him liable to catch cold. Skin, and renders the effect of cooling and purifying the
blood; so has Epsom salts whit boodive has Epsom salts, which may
be given also in feed, two tablespoon-
fuls daily fols daily for a week or so, or until
furging ber Purging begins. a week or so, or until
In a bad case, where grease or scratches appear, a purgative
ball of 6 to 10 drams of aloes and drams of ginger may be given, feeding bran only till purgation ceases ${ }_{i}$ follownup
with 3 drams nitrate of potash twice with 3 drams nitrate of potash, twice
daily, in feed, for a week or ten days. TIME FOR PRUNING-OYSTER TIME FOR PRUNING-OYSTER
SHELI BARK-LOUSE. 1. I have been pruning for the last
two weeks. There are some who think
to it best to prune when the bloom is out,
or along there. Is there anything against pruning at this there anything year, or even right along till it becomes
too late? it what we would call the bark-like? Is am trimming or pruning an orchard ? ${ }^{1}$ and there are lots of the trees, especially
the old ones, that look as if they the old ones, that look as if they were
dead. They are covered with this barkAns. -1 . Pruning may be done till the less danger of breaking off fruit spurs y working in the trees.
2. It is most likely that the scales y
nd unon the hark oyster-shell bark-louse. These, as the the
ame implies, are shaped like small name implies, are shaped like small
oyster shells, and are nearly one-eighth
of an inch in length. The San Jose scale is round and very small, with
diameter hardly as an pin, and they have a prominent nipple
the center The center. One usually requires
magnifying glass to identify the Sa
Jose scale for certainty: but with then Jose scale for certainty: but with th
naked eye one can make no mistake O. A. C. H. L. HUTT. FOUL SEED-STRAY STEER. A, a farmer, sells clover seed that ha
foul seed in it to B, a storekeeper, the 1. Can B resell that same seed to the
farmers without inspection or recleaning farmers without inspection or recleaning?
B claims he can, by telling the farmers
where he tot it ind by tolling in where he fot it, and by selling it $\$ 1$
cheaper a bushel. 2. Does $A$ or 1 , either one, lay them-
selves liable for a fine, according to last seed Act?
2. Also, a steer ent among A's cattle

 Mies east of City of Guelph. GEORGE D. FLETCHER, Herd ur headed by therthorns and Yorkshire Pigs
 In Yorkshires are athinolid, allo fomale for sande.
 BIWKHAM P. O.. ONT. ERIM STATION AND TEL. Bpring Valley Shonthorns Bulls in service are:
Chancellor $($ impp. $)=40359=(78286)$, Clipper Chief (imp.) $=64220$
Stock for sale at all times. wYLE BROS.。

- all times. Brown Lee Shorthorns ${ }^{-1}$ Prosent offoring io



Maple Leaf Shonthorns




## Belmar Parc Shorthorns

WE think we have as great a lot-of young show animals as has ever been on one farm in Canada. Our herd is large, the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls. 25 heifers under three years. A splendid group of breeding and show matrons. Mostly in calf to the champion Marigold Sailor $=53258=$ and the prizewinning Nonpareil Archer (imp.) $=45202=$. Pembroke is on the main line of the O. P. R. and the Canada Atlantic Division of the G. T. R. You can leave Toronto $11 \mathrm{a} . \mathrm{m}$., arrive Pembroke 12.05 p . m., see the herd, and arrive Toronto next morning at 7.20 . We prefer you to see the cattle, but if you can't spare the time we take special pride in filling mail orders satisfactorily.
John Douglas, Manager.
PETER WHITE, Pembroke, Ont.

## UR. A. \& J. A. WVA파

AHURTMHORN BULL CALVEE They are the last pair they have th offier, and are nct the poresto of the great dozen they sold Elora Station, G.T.R. \& C.P.R. 'Phone 42 K SALEM, ONTARIO.

## AT "MAPLE SHADE"

Our young bulls are the best that our herd has ever produced. We oan
furnish Cruickshank bulls of high quality to head the best herds, and some that should produce the best prime steers. We have a bull
catalogue. Send for one.
OHN DRYDEN \& BON
Brooklln, Ont.
Valley Home Shorthorns and Berkshires


 J. PEAREON, sON \&tations: Meadowva $\qquad$


Speclal Offering of Scotch SHORTHORN BULLS
2 jast past two yeerre old: 15 just over one year old ; 7 just
under one y yarr ola.
Than bestiot w.e ever had to offif in individaality and breeding,
and pricee are ribht.t. Catatalogue. 'John Clanoy, Manager.
M. OARGILL $\&$ \& SON,
Cargill, On
SIX IMPORTED SHORTHORN BULLS

 ROBERT MILLER,

STOUFFVILLE, ONTARIO.

## Clover Ioa Stock Farm SCOTCH SHORTHORMS <br> Pure Scotch Shorthorns


 STRUAN SHORTHORNS

 come and see my herd.
$\stackrel{s}{4}$
JOHN LEE \& SONS, Highgate, Ont.
 \& SONS, Highgate, Ont.
shorthorms a LIMcolns




 Shorthorns for sale- Five ohoior bulbs, all
 BColiend Brame imp.) at had or herd.
Maple Hill Stock Farm Sooten Shorthorno-



## WIM ARE OFFERING FOR BILE IMP SCOTTISH PRIDE $=38106=$ 。

 8 bulls jugt two years old. $\mathbf{8}$ bulls one year old.7 bull calveg from 8 to 18 months . 18 of of theese



W. G. Pettit \& Bons, Freeman, Ont.
hOLLYMUUUTI SHORTHORM and the ted, Imp. atook. 25 HEAD

W. J. Thompson, Witchell P. O. \& Sta SHORTHORNS
 CLYDESDALES Two mares 5 years old one an extra good one
and a pair or keldinge y years cld.

COSSIP.
A FAKER STOCK-BUYER ABROAD.
That the scoundrel who has been im That the scoundrel who has been im posing on breeders of pure-bred stock in
Ontario Ontario for years is still on the road
evident from the following letter ad dressed to "' The Farmer's Advocate," and dated March 28th, 1907: " Not
long ago I placed an advertisement with you for the sale of a Shorthorn bull.
received a number of inquiries.
About recelved a number of inquiries. Abou
the 9th of March came a buyer, repre-
senting himself senting himself as Mr. S-, a prominen
Ontario breeder. He made purchase o
the bull at the price I the bull at the price I was asking. This
was the 8th of March, and he said he would send me a draft on the Monday
following. I used him well, and drove him around. The bull was to be shipped cattle he had purchased from Easte:n Ontario, in about a week or ten days.
He was to telephone, and advise when to ship. Well, the time came and passed
and I began to grow suspicious, so and I began to grow suspicious, so
telephoned Mr. S, who said he had
made no purchases, wnd that the man made no purchases, and that the man
who personated him must have fraud. I gave the fellow the pedigrees whioh he has, along with a number of
others which he exhibited. Believing I
or have been duped, I have issued a war rant for his arrest, as I suppose he
doing other cattlemen in the same way
It It has placed the sale of my bull in an awkward position, as last week 1 wrote
you, reporting the sale, and to withdraw my advertisement, which you did, along
with some Gossip asked for, which is the worst feature. This is why I am writing
you at length, and trust you will pardon me, as I want to advertise again, and
will per and and will place the stame in your hands to do
the best you can for me. If my sur
mises are mises are true, and he is a faker, which
I believe he is, he might do believe he is, he might do a lot of
damage in this way, as he is one of the cleverest cattlemen I have had the pleas-
ure (?) of meeting, sorry to say. He is
Her ather short, about 5 feet 6 inches or
C. weight about 150 los., dark brown mustache, blue eyes, black hair, wears a
navy blue suit, Christy-stifi hat, navy blue suit, Christy-stiff hat, and a
coon-fur coat, at the time Con-fur coat, at the time of his visit
here. He is an Englishman, and drops his h's occasionally. He knows every
breeder in the catalogue, and is also well versed in pedigrees. Claims to live seven
niles from London; shipping station
Hyde lark. Any information as to his where abouts will be gladly received and re-
warded. "ord, high county constable,"
where two climates meet.
A "digger " from California, eulogizing
"A Thrre's a mountain there-the Saw-
yer Nevady, they call it-with a valley on
old. Well, get on the top of that
nountain with a double-barrelled gun, and
ner
ou cun, without moving, kill summer or
vinter game, just as you will."
"" What ! Have you ever tried it?"
" What! Have you ever tried it?"
. Tried ! Often-and would have done
Tried Ootu-and would
retty well hut for one thing."
Well, what was
"I wanted a d dig that would stand
I oth climates. The last dog I had froze
is tail while huntin' on the summer side. He didn't get entirely out of the winter
side, you know, sir."
An education is incomplete that is not vilt about a Pantheon, dedicated to the
service of great men.-David Starr Jor-
lan, in Life's Enthuslasms.

Maple Lodge Stock Farm 1854-1902 Am, now offpring a grand lot of
young Shorthorn Billis, several
from ohooce millting strains. Also a few extra good heifer
A. W. SMITH, MAPLE LODEE, ONT.

Six Red Shorthorn Bulls


J. T. aIBsON, Denfold, Ont

SHORTHORNS
Wo ofer tormb sours bilatanmbe , ind R. Mronmb. Inelson R.O., Ont: Burlingtom Junc. Bto T. DOUGLAS \& SONS strathrov, owt.
 John Gardhouse \& Sons Imoorit mad breaite


 SHORTHORNS.




At a recent dinner given to the news boys of a great city, one of the gentle men in charge of the feast noticed a
" newsy ", stowing away the food at news " stowing away the food at
rate that boded ill for the immediat future of his digestive apparatus.
"Why do you eat so fast, sonny?"
inquired
"So's I kin get a hull lot down 'fore
feel full," was the choked reply.

DODD'S
KIDNEY PILLS

butter morebuster If you can increase your butter production without any increased cost or any more work
won't it pay you to do it? And if you can get more butter from you mille with llese
worlh, that will be still better, won't it? What's, that will be still better, won't it? will do as Mr. Lerting did-buy a what he says about the Tubular:


The Sharples Tubular Separator
mone ayriat
gets all the cream there is in the millk, does it so easy that it's not work to run it at all, and is so and keep clean that comparison is out of the qush

The extra cream it gets makes the Tubelar a rea avings bank for its owner.

All the other good money-making points are told h book F-193, which you ought to read. Write for it oday-we'll send it free to you.

THE SHARPLES SEPARATOR CO WEST CHESTER, PA

Chloage, III.

## BRAMPTON JERSEYS

## Canada's Premier Herd

Strengthened regularly by importaticns from United tates, England and the Island of Jersey. We have animals of all ages and both sexes for
sale, and the largest herd in Canada to choose from.
Write for prices and particulars.
Long-distance 'phone at farm.
B. H. BULL \& SON, Brampton, Ont.


OUESTIONS AND ANSWERS Miscellaneotus
GANDER AND GOOSE. I noticed an enquiry how to tell
goose from a gander. Take a flock geese, and have them stand facing you. goose has one sack extending from body
io the ground. while a gander has two
别 to the ground, while a gander has two
I have never known that to fail. [Note-Another goose expert states that the only way he has to distinguish is by rander goes with his head always boldly erect.-Editor.
YOUNG GEESE AND DUCKS
My geese
about two weeks after being hatched they were about three weeks old, After were let ruu with the mother, but fed
morning and night, and were also shut up in a dry pen at night. They sudden-
ly took sick; seemed to be hurt in the y took sick; seemed to be hurt in the
back; would flap their wings, and fall backwards. Then it settled in their legs, and they stiffened, and could not walk
They died in a day or two. I fed Dr
The Hess' poultry food, and also Dr. Scott's.
Now, one of my old geese has taken the same disense. She has been fed oats and barley and spelts, mixed, twice a day,
and has had all the fresh water she and has had all the fresh water she
could drink. What can I do for her ?

Ans.-I cannot offer a suggestion as to
the cause of the trouble at all, only tha the geese and ducks must be eating sotme impression is that they are getting at some grass or weeds or something of this
kind which is killing them, not the ordinary feed, nor the handing, etc: I
would suggest that if there are any still
alive, that you send one or two to the alive, that you send one or two to the
Bacteriological Laboratory for examina
tion, and wite the Laboratory, tion, and witite the Laboratory, telling
them your suspicion of poisoning, etc. II
do not think the Would alfect them. If roup ever bothers
ducks, it usaally causes bu ducks, it usually causes busbles abou
the eyes.
W. R. GRAMAM. REGISTERING JERSEYS.
I bought a stock bull recently, eligible
to register in A. J. C. C., but registered in Canadian National Records, or or C. J was told there was a Canadian herdbook
and an American Jersey Cattle Club and an American Jersey Cattle Club
register, and that cattle registered in the Pormer were not eligible for registration
in the latter, nor were they considered In the later, nor were they considerec
of as good breeding as the A. J. C. C
cattle. Now, since this Canadian National Record has cropped up, I have
asked several o:d breeders to know its standing, but no one seems to know anything about it. What I would like to
know is: Where was, or is, this Canadian berdbook iegister kept, and what
was, or is, its standing, or the standard was, or is, its standing, or the standard
of breeding required for entry in it ?
Is this Canadian National Record what
was known as the Jersey herdbook, and
$\qquad$
$\qquad$
$\qquad$ Ans.-There was no recognized register
for Jerseys in Canada previous to the
organization of the dian organization of the National Record. As-
sociation. What was, and is, known as
the Jersen her a private individual in the States, and is not of as high standard as the A. A. J.
C. C. Herd Register, or that of the C.a natian Jersey Cattle Crlub, under the Na-
tional Record Board, at Ottawa. It indeed, loosely kept, and is not recognized
as reliable by breaders of first-cless
by as reliable hy breeders of first-class
Jerseys. Animals to be entitled to
registry in the Canadian Jersey Cattle and
llat Record must trace in all crosses
animals recistered in the American
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## ANNANDALE

 FINE STOCK FARM TILLSONBURG, ONT.Premier sire, Prince Posch Calamity, whose dam and sire's dam average in official test 86 lbs. milk in 1 day -
No stock for sale at present.
GIO RICE, Tillsonburg, Ont,
HOLSTEINS Firil




 H. E. GEORGE, Orampton, Ont RECORD OF MERIV HOLSTEIN


 ad elred by the stoct of Record of Merit com Woodstook Station. Ozford Centre P.O.

 Now is the tim to place your
ordor frr yong stook from
choice dams, and


 MAPLE HILL HOLSTEIN-FRIESIANS
 Twenty dams in his peven day butter reeordin heo have offcial butier
record records averaging 23 1bs. 1 oz of 85.7 per cont.
butter in severn days. For extendes pedigree.
prite etc enrito
G. w. CLEMONs, st. George, Ont Evergreen Farm Holsteins ${ }^{\text {is }}$ hooded

 Spring Brook Holsteins and Tamworths Herd headed by the flrst-prize bu Nanue
Pietertje Paul, whoe dam and sire's dama
and over 25 libe in 7 thays. Female bred and young
bulle sired
 ages and both sexes. Come and see, or write
once for prices.
A. $\mathrm{C}_{\text {. }}$ Hallman, Breslau, Ont. QUEEN CITY HOLSTEINS Il you would like to parchase a young Hoibtil
bull whose sire's dam has an omcial record


FARMER'S, ADVOCATE © Want An

oustrons And answers. Miscollaneous.


SOWING AND HARVESTING ALFALFA.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

3. Cure as you would clover, but with
even more care. Keop it moving while
green by using the tydder, rake while

# "Why Am I Wear?" 



That is the question which every weak man puts to himself. If you have thought much of your trouble you know that the force which keeps up the health and strength of your body is nothing more or less than electricity. All the motive power in your body is born of electricity. That is what you lack, and that force given to your weak organism as I will give it, will renew your strength. You will be able to enjoy life. You will be strong again. I can point with pride to hundreds of men who came to me after having failed to get the craved results from drugs and other treatments, men broken down, sleepless, short of memory and without the courage and energy of strong people. They have come to me almost without hope, discouraged ; and I can point to these men to-day, after their having worn

## Dr. Mclaughlin's Electric Belt,

happy, enthused and shouting with gladness in the possession of the full vigor of perfect manhood. These men will at any time be glad to tell you what I have done for them.





 tho can stve me reasonable eecurity the uze of the Belt at my risk, and they can $m$ to ofter any man or woman

## PAY WHEN GURED

Thls appllance has cures in most overy town and clty In the country, and if you will write to me 1 wml eond you tostlimonlals, given to me by people that are probably woll known to you. My Belt not only cures weaknese but
Rheumatism, Sclatica, Lumbage Backache, KIdnay Trouble, Nervous. nese, Constlpatlon, Indigestion and Stomach Trouble. I have a beau-
tiful Illuastrated book, tlful Illustrated book, which I will
mall, sealed, to any address FREE. mall, sealed, to any address FREE.
Thls book is full of lots of good, Interesting reading for men. Call to-
day. If you can't cell, send coupon for Froe Book

Dr. M. \& Molaughlin, II2 Yorgo St, Toronto, Ont. Dear sir,-Please forward me one of your books as advertised. NAME:
ADRESS office hours-9 a.m. to 6 p.m.; Wednesday and Eaturday until 9 p.m.

Imperial Holsteins ${ }_{\text {herd }}^{-\mathrm{An}}$ har for sale. ${ }^{\text {Ad }}$ One year
 V. H. simmons. Ne. Durham P.O. \& 8 st 6 GHINARCHY" HOLSTEINE H3 head of big, deop-fanked, heavy-prodioniny libs. a day on grase. Young, stook of both sezed

Holsteins and Yorkshires Holsteins and Yorkshires
R, HONEY, Brllokloy. Ont. ofere a vers
choloe lot of sonng bulls. als boars and sow, ahole lot
Greenwood Holsteins and Yorkshires Fror gale: $\triangle$ fow richly-bred balle from one tle old ages. Yorkhires of eithor Bez.
Grove Hill Holstein Hend
 F. T. B. and C. ORY Reilway connootions.
" IHE MAPLES" HOLSTEIW HERD

 Walbumn Rivers, Folden's, Ont LY NDALEC HÏ世
 Wayne Psul Conoordia, four of whose neares!
dame have offlicial reoords averasing en lbe
azal azs. each. Eight hoifors coming own and and due
of calve in gpring. Younger stook, either des BROWM BROS, Lyn, Ont

 SPRINGBURN STOOK FARMi NOmEh




Hilliviow Horid of Prizowinining AYRSHIRE CATTLE.

 and prices writo
 SHATHON BAKK STOAK FMT ron AYnBMIAEE amo ronkeminto
 w. W. TRAN. - Oedar Citiver. owt.
 Geave some nlee bull and haifor eniven for mito al
 STOCKWOOD AYRSHIRES FOR OM E


5
$\square$

 BERKSHIRES
 SOUTHDOWMS
 illeDournill motis


Sheep Breeders' Associations.
American Shropahire Regising Assodedolion, th
 ERING, Becretary, Lafayette, Indiana. IM on
SHROPSHIRES Oan sell sbout 90 Ram Lambs.
 Oxford Dome sheop, Shorthorm Cattle


SMIP US YOUR

## CALFSKINS

Write for our prices.
E. T. CARTER \& CO., Toronto, Ont ORCHARD HOME TANWORTHS



 xpress prepaid and Betisfaction gor tarante crated. GRANDALL BROB., Cherry Yalley, On Neweastle Hord of Tamworths and Shorthorne
We have for quick sale a choice lot of boar

 Im March and Apriil. Peodigree fuunish har with
overy pig. Soveral ohoice heifer calves an
 MOUNT PLEASANT TAMWORTHS an MOUNT PLEEASANT TAM WORTHS An lot of pigs of either sexes, from one to si
monthe old. and two owe bre to farow in
Marchh They are nearly all sired by Crol wall
 end one heife from one to ten monthe wla
Phone in reil ence. BERTRAM HOQk

-
ELMFIELD YORKSHIRE


Willowdale Berkshimes

dam. Satisfaction guaranteod. of them imp. it
PIIIE GROVE BERISHIRIS


show etuffirs sirt by the
Toronto winner, Willoun
Lodge
oth sexes-4 and 6 mre young animaral sal
 Duroc Jerseys ${ }_{\text {sows }}^{\text {- } 1 \text { mported and boars ready for ber }}$

wac Campremi.
MAPROVED YORKSHIRES,
Ohoioo young stook from imvorted
risewinning gtook for sale.
aEO. m. Bemth. haveville, ont.
For Sale -ohio Improved Chester Wi ites, the hoice young pigs, six weeks to six mon in row

 Berkshires - Chief herd boars: Compton Ming ready weat Motio
of Choicest Type and Broding.




Woodstock horrd of Large Engl|sh Berkshirics

 Dove homson, Box 1, Woodstoek, ont Rosébank Berkshires. ${ }^{-}$Prosenationerig:
 Lefrog.G.T.R. JOHM BOYEs, JR., Churchill, Ont. Long-dietanoe 'Phone



 and

QUESTIONS AND ANSWERS. Miscellaneous.

LEG BANDS-HENS' NESTS 1. Am desirous of going heavier in the poultry business than I have. Barred Rocks, and it is difficult to tel
them apart, as they are all the same 2. Give a good plan for hens' nests that may be kept clean. ENQCIRER. Ans.-1. The best, simplest and and cheapest means of differentiating these
fowls is to use numbered leg bands. Order frome poultry-supply firms advertising in this paper.
2. No especial design is necessary in
order to keep nests clean, it the strip order to keep nests clean, but the strip
which serves as the front of the nest may which serves as the front of the nest may
be nailed on lightly so that it may be
easily removed, and tipping the nest or row of nests forward will quickly rehoove
litter and rubbish, and permit the use of disinfectant solutions, or vermicides when WATER RIGHTS. I have a stream of water running
through my farm, and I intend to build
a pond on the strean a pond on the stream for a trout pond,
and, also, a chopping mill. A man has a mill about one and a hall
the stream, and he says that he can stop
me from building the pcnd and the mill me from that he controls the streain for so
and
many miles above the pond. Does many miles above the pond. Does he
control it any further than his own property, and can he stop me from buil
ing ?
OLD SUBSCRIBER. Ontario.
Ans - It is imposthb tor us to tee
 personally, as there are many things to
be taken into account in determining the mill-owners' rights in the premises, an the fullest statement of case possible
necessary in order to your being proper necessary in order to your being p
advised in the matter.

PLANNING PIGPEN.
I have a building, 20 feet by 24 feet,
which I wish to use for a pigpen. It is 6 feet at eaves.

1. What height of wall would I have to
for pigs?
2. Would it be better to loft it over
t plates, or leave it open
3. How high should sleeping berths be
4. Would it require two or three win
ows on each side?
5. What do you think would be best
plan of ventilation?
6. Would putting 6 or 8 inches of
gravel under cement floor be sufficier
drainage?
 pioee , Bon of the 88,500
boart. Matierpieece
sond


## MONKLAND

We keep 35 brood sows, and have constantly on


JAS. WILSON \& SON8, FERGUS, ONT


## Large White

 Yorkshires.
 H. J. DAVIS, Woodstook, Ont, Importer and Breeder.of Yorkshires
and
shorthorns. CLINBURN HERD OF YORKSHIRES

Winner of gold modal three years in
oufecession for sale: 18 jouna


David Barr, Jr., Box 3, Remirew, Ont. Maple Grove Yorkshires



 Fairview Berkshires
 Am nomo oforitus. siod
 John s. CoWAN, Donegal P. . o., milverton sh. SUNNYMOUNT BERKSHIRES.
 diani baob ariod epd


## нипоогоо

Fairview Berkshires




