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Name


# The Farmer's Fidvocate <br> Persevere and <br> Succeed. <br> <br> and Home Nragazine 

 <br> <br> and Home Nragazine}

LONDON, ONT., and WINNIPEG, MAN., FEBRUARY 15, 1906

## EDITORIAL

## What is Your Rotation?

 crops is necessary to secure the best yields and maintain soil fertility. Planting the same crop in a field year after year is nearly always bad practice, 'whether it be wheat, roots or corn. Not only so, but many of our best men in Ontario which calls for two cereal crops in succession, or for corn, potatoes or roots after grain. A sys-and-timothy sod to plow under every three or four years-in summer or fall for roots, and in fall or spring for peas, corn, rape and other fodder crops. The peas and hoed crops in turn are the very brought about being especially favorable to the maturing of a grod kernel, and also to the secur-ing of a good catch of clover, to which the grain should usually if not always be seeded. The clover then replenishes the humus and gathers atmospheric nitrogen, some of which is added directly to the soil by plowing under the clover sward, while an additional quota comes back indirectly through the manure made by the stock that has eaten the clover in meadow or stable. And, by the way it is not out of place to remind our readers here that manure from cattle fed on clover, bran and fertility than that from cattle fed timothy hay and corn. quently is rotation in which clover enters fre quently is the best means of providing nourishing soil and keeping it full of that indispensable element, humus (decayed vegetable matter), so important in preserving a good physical condition.
A soil without humus loses plant food, by leaching and in other ways, is hard to work, and un Satisfactory in every way. Rotation with clover
is the remedy, and in order that it be not neglectd, each farmer should evolve in his mind a systematia rotation. Haphazard change of crop is
not rotation, though it is decidedly preferable no change at all. A rotation should be founded on scientific principles, which we cannot
fill. discuss in this article, but, in a word the m discuss in this article, but, in a word, the -ing with every crop of grain. Circumstances may is well to have one by which to work. We ture the opinion that many farms, for lack of a good team could haul all winter i of manure from a neighboring town.

cultivated out of the corn or roots, and

tard that comes up with the following
> grain may be hand-pulled, or killed by
with copper sulphate. Few weeds wil

IV indicated the importance of a syste

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THE FARMER'S ADVOCATE.

THE Farmer's Advocate and Home Magazine.
the leading agricultural journal in the


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john weld, Mamager.
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Agents for The
Agents for The Farmer's Advocate $\begin{gathered}\text { Winnipgo, Man. }\end{gathered}$ w. w. Chapman, Agent, Mowbray Hous THE FARMER'S ADVOCATE AND HOME MAGAZINE It is impartial end independent of all cliques or parties. handsomely
illustrated with orignal engraving, and furnishes the most
iractical, reliable ald profitable information
 men, garden
in Canada
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## Sowing Clover with Oats

Resolve to seed down every acre of grain this
year to clover or clover and timothy past experience shows a doubtful chance of getting way. The harder it is to get a stand of clover on a particular field, the worse the field needs it as a rule, and one chance in six is worth taking
on such land. Sow the grain thin-about $1 \ddagger$ to it bushels per acre-and the clover seed thick about 10 pounds of good clean seed per acre, an
and you will double the chances of a successful seed-
ing over the neighbor who sows two bushels ing over the neighber who sows two bushels of
oats and six pounds of clover seed and you will get very nearly as much grain, too. Some say, If it all grows, six pounds of seed is enough."
True, but it never does all grow, especially on the poorer spots. Sow plenty of seed, and al be a mat on the ground, after harvest to keep it shaded and moist, so the plants will have a selves a winter protection. On the other hand by sparing the seed, there will be a sickly stand,
weeds will come in and choke out the clover weeds will come in and choke out the clover, and it will be so miserably thin on some soots that
the man will hesitate to leave the field to meadow, and very likely say there is no field to mea- seeding
down with oats down with oats. It depends a good deal on how one goes at it. Never begrudge moncy $i$
vested in clover seed; it returns the biggest i terest of anything we know.

## Draws from England

[^0]
## Value of Pure-breds: A Fact as Well

 as a Theory.The tardiness of the general farmer in availing himself of the benefit to be derived from. the use of pure-bred sires in the improvement of his stock, is something difficult to understand or explain. Many good farmers, having ample means, appear to actually entertain a prejudice against pure-bred stock, and will stand at a cattle-sale ringside, and see thrifty, useful pure-breds sold for little more than ordinary dairy cows or butcher's beasts would bring in the marketplace, while they continue to feed good food to inferior stock Which make poor returns in meat or milk for the placed unon the and sell for low prices when bred grades which meet the denaled with wellquality and bring top the demand for good returns for what they have eaten. are opinion seems to prevail that pure-breds liberal feeding than grade or ordinary stock. This is a mistaken idea. Many pure-breds have stronger and more vigorous constitutions appetite, superior consequently have a keener appetite, superior digestion, assimilate their food gain of weight age, and make greater returns in Most men acknowledge the superiori bred grade stock over the superiority of well appear willing to rive due them for the existence of poods crades yet any intelligent man, by doing a little honest thinking, must be convinced that, but for the no improvement over the scrub in any class and stock. And yet, how often dores it occur that when, for instance, a grade cow is bred to a pure-
bred bull and the produce is a male it is, to its superior appearance, kept entire and us d is made in the herd in comparite improvement might have been effected hy the continued use of pure-bred sires, which, if well chosen, would have
continued the grading-up process of the herd would probably, in a few years, have We do not advise farmers generally to go into
the breeding of pedigreed ness. We do not believe it would be in their son that all are not qualified by training, taste and judgment to take up the work, and that probably but a small proportion would make a
success of it, owing to the tions named; but in this lack of the qualificaadvantages which young farmerg with the superior quirement of the acmethods of feeding is passing strange that many more of stock, it a commencement in a many more do not make breds, and that the rank and file of farmers not make it a point to improve their all lines by the use of pure-bred sires. satisfaction of seeing good stock in one's stables and pastures itself adds much to the pleasure of practin ine, and when we consider that, from the practical dollar-and-cents point of view, it is cerproved class, there apeable to rear and feed the improved class, there appears no sensible reason for omly way by which it can be done, and that is by the use of a good class of pure-bred sires. If
the cost of such were unreasonably high, it might be considered a valid reason for postponement, of those who correspond with breeders, that us, who sires can now be secured at prices the ceneral fapmer can well aford to at pay. It is Sufficiently to the value of his offsprine will add herd or fock to usual term of his service in a heop, and in many instancecoup his may and and of his term. quite his orimimal cost at the end In discussing this question, the mind naturally Wery farmer keeps, dithen on heres or dathery pur
the pure-bred sire in effecting improvement has been so clearly proven in observation and e ence as to be beyond question, and the better he is in individual make-up, and the higher the standards of his recent ancestry in character and re ard of production, the more likely will he he mpress those desirable qualities upon his progeny ake advantage of the counsel farmers ay of improving the quality of their stock, and pare to profit by the good market prices present and prospective for farm products in all lines a little better in quality than the will continue to expand at home and abroad, and the best quality of product will always cominand a premium. Let us, then, not be content with slow-growing, common stock and the inferior prices they inevitably bring, but be ambitious to produce the sort that sells quickly at the best prices going. Bear in mind the fundamental doctrine of this article, that the value or the purbred is in theory, it is one of the best and most widely-attested

## HORSES

## High Prices for Thoroughbred Stallions.

The recent sale of the King's horse, Diamond Argentine breeder Senor I $\$ 157,550$, to the on the purchase of Cyllene by William Bass for similar sum, has caused so much discussion that table containing the names and prices of al horoughbreds (and, as far as possible, their ages $£_{10,000}$ of sale) which have changed hands for ng. of was nearly 41 years ago that the Marquis chase of Kangaroo for 12.000 sore: eigns early colt had won three races off the reel in the the "soumed names adopted from time to time by Mr. I'adwcik, and it was after Kangaroo's vic favorite) and a Duke of Beaufort's Koeing (a hot market Biennial, that the Marquis secured him or what was then, and for some years afterward record price for a race-horse, says "HagioNot until 1872 was Kangaroo's firure exte and then for the stallion Blair Athol who purchased at the sale of the Middle Park Stud in July, 1872 , for 12,500 guineas. 'I hree years Westminster giving $£ 14600$, the late Duke of Peck for Doncaster, whom the vendor had pre rously acquired for $\$ 10,000$. Not until 1890 was Doncaster's figure equalled he Derby dead-heater, St Ciation, who for a long time stood at the Graditz Stud before in his old age, being acquired at a low figure by the Ameri-
cans, owing to the stud success of his best son Meddler.
From
1890 best stallions, mares and also younger animals the fashionable blood have gone on increasing, and in September, 1891, the lo. No. Blundell Common. Scarcely had the sensation caused by this big
deal subsided when the news was cabled from the Mr. I.orillard's stud, had been sold at auctione to
£20,000, which was £20.000, which was the opeening and at auction for
In 1892 . Ormonde. whom bid. minster had partonde, whom the Dulie of thee years previously for can purchager, Don Juan honce, his Sreviously is
W. Sellith
W. Brich W. OBrien Macdonough, the California breede for the colossal sum of the California breeder high peris was not reachedity in the matter
1900 . M. Fidmond the spring Tuke of Westmond Blanc, at the sale of the late horsing of beat all previous records, by securing rlying fasily Ror 27,500 guineas. Iater in the year, too, the
record price for a yearling of gon arinea,
(hildwick Tecord price for a yearling of forn guineas for
Childwick was heaten when Sceptre was sold

Are Acquired Characters Transmitted?
The Chicago Horseman hase publulshed a serfes of th





 Sosessead by the sire at time of hreeding is in some
way transmitted to the progeny, and that the converse applies to stallions that have been pamperad or have ©
 sumed Inheritance of A Aquired Characterss, It Relation
to organic Evolution."
While oft it is not unikely that
 Some of his theries are ingenious, not to say fror
fecthed.
But wo will let him speak tor himsell, in the
 see ot the parents at the time of eerronduction causes a Corsesponding inerease in ine natural longevity of the tater arrival at maturity and capability of reproduction
At a tater age.
Tho propensity of of animals to tight at matically to increase the age of the parents at the timo Ot breading, and this in turn increases the ongeverty of
"When an animal Aghhs he oerercisess his physical and
 Session or temales, thesea fikhts take place betore breed-
 sequence. nature in a very large degree develops her anti-
mals betore


 "These and other examplesitn inctiot that the decomes part of the hereatity of the noxt.

 comese greater and greater the longer the time during
which it is continuced Longevity in ofspring is increased by anything
Which increnaese the ase of the parents at the time ot reproduction. Contegt botween males or the possession
of temales is one ot the things which acts to telay
 qualitites of the the animals.
In America the troting gnit in horses has been

 Velopment continuved throush a nump er of genarations




 Qisht to dark ocery tary tor weoks torethers. $A$ tom the end







element of evolution, produce any kind of result desired.
Not all of the results desired are of the same kind,
and to produce results of different kinds this control What Should be the Tarmers' Horse breeding Policy? The question is sometimes asked, "Have we take control of nature's laws and direct their action with all our excellent breeds of horses, one, the not confine ourselves to directing one thing, (we should grades of which are, in any frequent number of cases
direct all ofly suited to the purpose of farm work?" We direct all of these things which come within our reach, Besides controlling the age at which reproduction takes prace we should control the degree of activity and the
lines along which we wish it to go. We should also take along which we wish it to go. We should also in iorm or color which will assist in rapidly reaching a
" The first thing for the breeder to recognize is that
all of the animals which we know to-day have been de-
veloped by a process of evolution from previous animale
ver an inferior quality. The ention from previous animals
of thing is a recognition
of the forces which have kept that process in operation
until they have brought about the results
until they have brought about the results which we now
see. And the third step is to keep those forces acting
see. And the third step is to keep those forces acting
continuously in a desired direction, so that each step
may
may be a forward step. With such knowledge properly
applied the practice of
applied the practice of breeding animals will be as cer-
$t_{\text {nin }}$ in its results as are the results of ordinary manu-
thin in its results as are the results of ordinary manu-
facturing process, and the rate at which imnovement
will he secured will exceed anything tho world hes
Possibly Prof. Redfield's conclusions are extravagant.
Dr. A. S. Alexander, a well-known authority on horses,
goess so far as to say in commenting on the theory : exactly suited to the purpose of farm work?" W have the Thoroughbred and Standard-bred, both
good for the respective purposes for which they have been bred, viz., speed at the running and the trotting or pacing gaits, but only in occasional instances do their get possess the weight and the steadiness to meet the requirements ould be a bet work-horse. The Hackncy, also, would be a bet
ter farm horse if he had more size, and his characteristic action is none to his advantage so fai as work is concerned. We have the French and German Coachers, but they lack prepotency, and
so far as our observation goes, their colts are often disappointing. We have the Clydesdale king of draft breeds, but he is scarcely so active as the majority of us would like. The plow-hors
of the Old Country of the Old Country is not the farm horse of
Canada. The same observation applies also to the Shires. The Percheron is frequently deficient
in his underpinning, and, while some of the stalin his underpinning, and, while some of the stallions put up a flashy show, and some excellent in
dividuals are produced, inspection of the line-up at an exhibition such as the Chicago Internaat an exhibition such as the Chicago Interna-
tional, fails to convince the farmer, as a general ale, that any good can come of transferring his
From the Scotch or Fnglish to the French draft breed. Had we stout, clean-limbed, fairly active and prepotent breed, of about the Cly desdale's scale, but with in the direction of the old Morgan type, it seefins to us we would have a breed
the stallions of which the stallions of which
when mated with the com mon mares of the coun try, would get e learge proportion of useful farm would no longer be, as they now are, an accident since we haven't sucher, breed, and are't not likely to have one for' a good many years to come, the should farmers breed produce horses that will est meet their own needs, itable market most profments. There is, beyond question, a great deal of njudicious mating done every year for lack of a clearly-advised policy in
this regard. Seeing that our reputation as a honse-raising country de pends upon our adopting and adhering to some one eral lines of breeding, and seeing, further, that the subject is of direct inter-
est to every farmer, we believe an open discussion
progeny, or whether the prepotencies already possesse direction parents can be intensifled by training in the as an example .cannot be asserted with any degree assurance, and so far as our own observation and ex perience goes we do not believe that the prepotency is to the state of health of the animals at time of matOur own opinion on the matter, if we were to take
the privilege of speculating, would be that working stallions and mares, or development of speed in trotting horses, would have a tendency to develop power or speed, respectively, in the progeny, and that lack of
such working or training would eventually such working or training would eventually result in the
impairment or loss of the dynamic qualities for which the ancestry had been noted. It is probable that the results of one policy or the other would not be marked in succeeding ones. What is the Shetland pony but a product of environ
ment? What is the action of the Hackney but sult of training which developed a tendency that has gradually become hereditary? Going to cattle for an
illustration, how is the milking tendency hreeds accounted for but by the hereditary transmission careful and persistent milking in each lactation period from the first calf on? Do not the factecs point to the probability that man in improving hreeds of horses or selection by developing in his breeding animals thos
in "The Farmer's Ad-
would be advantageous. The questions we present for consideration are: Should a farmer's principal aim be to produce
horse for his own use, or a horse for the mara hor
ket?
W

What breed of horses in this country will, when mated with the generes in this country will, when largest proportion of useful farm horses ?
What light breed of horses will get the largest
proportion of stock that will bring the surest and proportion of stock that will bring the surest and What breed of heavy horses proportion of stock that will bring the surest and best average returns?
What breed is likely to get the most profitable as the market raer, considering his own as well What classes of horses are likely to increase and what to decrease in demand during the next
ten or twenty years? Admitting that ther
call for all our present will continue to be some classes, what should be advocated as recognized reeding for farmers to advocated as the line of or confine advisable to encourage additional breeds, have?
We will be glad to know if your label has not This is our busy season. has not Sorry to have to mention it again, but hate

About Enough Lisht for Funerals. The question of light is one that does not refarmers are satisfied with a little bit of lightwindows about 1 f. by 2 ft. every here and there sort of subdued light, very suitabe has tor funerals, but certainly not conducive to health. These are
matters which ought to receive a great deal more matters which ought to receive a great deal more
attention than we commonly give thems, in our horse stables, or cow stables, for that matter.
The light should come, if there is no feed passage, through a small, window in front of each horse, high up, and protected from the horse by
iron rods. There should also be light coming in at each, end, or at one end, and light
on either side.
or the windows should
be
 opened in summer, or whenever it is nec-
essary to have a curren of a ir in the stable to
cool the place..-[J. H. Grisdaie.

Informetion re Percheron Registrations. At the present time, the only record of Perob-
erons recognized and approved by the U. S. Government is that issucd by the Percheron Society of America, although we understand that the Dominion Livestock Commissioner purposes starting a Canadian record. The Secretary of the above Society kindy sent us samples of the varions. The pedigree certificate is an ornate pieco of work from the standpoint of print-shop architecture, although a seddle and a bridle suited far a coach horse looks a little incongruous on a dratt-horse certificate. Perhaps it is an evidence of atavism, whether of the days of chivalry or the Apache, we are unable to say; suffice that protector. A better ornament would have beeps proprocurtion of some of those magnificent t two
repter four or six-horse teams furnished annuully by the breed to the Chicago International. The application form for registry is very good, especially in
the matter of showing the breeding of an animal made out for four crosses in the extended form. The Society is a joint-stock company, shares in which cost $\$ 10.00$ each.
ter as quollows. . "I wish to say this Association took over all records pertaining to the Percheron breed on May
9th, 1904 . We do not recognize any certificet issued by s . We Tho not recognize any certificate other words, any certifcoate bearing a number higher than 35,912 , with S. D. Thompson's signature, is not recognized by this Association. Any
certificate bearing a number lower than that with certincate bearing a number lower than that with
Thompeon's signature, stands recorded in the Percheron book. I enclose you a blank certificate, howing the proper signatures, which all certin cates should have which are dated since May 9th
1904. It would save trouble and time if you would not accept any pedigrees that are without
 Stubblefield (president and secretary, respective
you in anything that will a
Percheron interests in Canada
The following are the requirements for regis tration in the Society's book:
First.-Any ptallion or mare previously record ed and registered in the Percheron Studbook of France. The original carnificate of registration in said Studbook of France must be submitted
and exhibited with the application Second.-Any stallion or mare dam are both recorded and registered in said American Percheron Studbook. A competent at-
fidavit of the breeder, showing all renuired facts fidavit of the breeder, showing all required facts
and conditions, must be first Third-Any stallion or mare bred and enfoaled in America, whose sire and dam are both recorded in the Percheron, Studbook of
France. ${ }^{\text {The card of service. supported by the }}$, afinave of the French breeder, must be presented
with all application with all applications in such case
identification
A description of each animal presented for registration, showing its color, marks, appearance, peculiarities, and any other matter, aiding in its
identification, shall be contained within the inplit cation and recorded within the registration, and in the certificate issued for the same
made before a notary public is that an affidavi made before a notary public must be furnished be

## LIVE STOCK.

## Our Scottish Letter

We have been in the throes of a General Election cept that the Fiscal policy of Mr. Chamberlain ind it neburous retaination scheme of Mr. Balfour have alika British history. One cannot be surprised at the result The ministry of Mr. Ballour was returned to power in can war. The majority he secured on this plattory Was used by Mr. Ballfor to do dhree additional things
viz., to amend the licensing do
 tor England, embodying principles foreign to the in stincts of a very large body, if not an overwhelming proportion of the electors of this country; and to authorize the importation to the Transvaal of inden
tured Chinese labor, under conditions which are always disiliked by the British people. Then an attempt was made by Mr. Chamberlain to capture the entire party
machine in the machine in the interests of what he calls Tarif Reform
end this attempt succeoded in the cone and this attempt succeoded in the case of the Liberal
Unionist machine. ${ }^{\text {The }}$
The Duke of of Devonshire was pelled from the party, with the result that he threw his whole weight (Which more ways than one is con
siderable) on the side of the party siderable on the side of the party arguing in favor of
the statua quo. The result has been a condemnation
Then ot a ministry unparalleled. Scarcely one of the mem bers of Mr. Balfour's sdministration have been returned to Parliament. They have been dismissed right and have in all parts of the United Kingdom, and with them unassailable. Of these there may be named Mr. Henry Chaplin, who for 28 years represented the Sleaford district of Lincolnshire. He has never been anything else


Young MacQueen 2290
than a protectionist, and would tax wheat eve The most disheartening thing about the situ from an agricultural point of view, is that there is scarcely a man in the new Parliament who knows the A B C of ngriculture. Earl Carrington, who is now
President of the Board of Agriculture and Fisherie in the House of Lords. He knows his portfolio fairls well, and happily his lieutenant in the House of Commons, Sir Edward Strachey, has been returned for the
Yeovil district of Somerset. But the best general lieutenant can do little or nothing without an army and the agricultural army in the new Parliament would
be difficult to discover. What the upshot be difficult to discover. What the upshot, so far as
Canadian stores, the Butter Bill and other thinga be, no one can forecast. It may safely be concluded that Mr. Campbell-Bannerman and his colleagues wil
have their hands pretty full for some time to come wit bigger interests. They have mado a good many pron
ises, the fulfilment of which will occupy clydesdale registration.
I learn from various sources that a movement is the regulations for imported horses. Clydesdale be ers in this country owe so much to Canada that they your vide. As much disposed to tisten to any proposals from is five registered crosses, with dam and grandam num bered. Our standard is registered sire and rogistered to numbering of dam and grandam. without restriction as is that you propose to insist that all imported heard shall conform to your own standard of five crosses. This seems a reasonable enough proposal, and the larger pule, but a considesable nere would conform to the 'armers' careless ways of doing things, might of our out, and these are often the very animals which it would benefit your people most to get in. It must be anything. whereas your five crosses are five crosses on it is only short because of neglect to record pedigree cause the remoter ancestry were not Clydesdale, or, at Shorthoavy draft horse of some kind. The American Canadian Clydesdans may be accepted as a warning to The Americans are not satisfed with the Shmatter. standard which rules in Coates' Herdbook, and have amongst rules for imported stock which shut out, What advantage accrues of the Uppermill Missie tribe. it would puzzle the wit of man to discover, and policy ounsel clydesdale men, before going forward, should take ashly. It may be useful to review the development of
Clydesdale registration in this country. The society and studbook were founded on country. The society horn Society and Coates' Herdbook, in 1877, and the first volume was published in December, 1878. When
the society was started. Mr. height of his fame as a horse-breeder. His record the was that of 1877, two months before the Clydesdale Wales 6ia to was founded. He was breeding Prince of mares, although the latter ware and to many Shire such. At first he was disposed to join known as t the crucial he attended its preliminary meetings: but formed, he witht, when the first council was being death in March, 1884, and thenceforward, until his of the Society and the Studbook. Had he joined
the society, there can have dictated its policy in respect of pedigree, and the probability is that he might have succeeded in
accomplishing his dream of one draft horse studbeok accomplishing his dream of one draft horse studhook
for Great Britain, apart, of course, from the Suffolk breed, whose distinctive charsacter is the Suffolfevident. But having chosen another course, the society and
Mr. Drew went on diferent lines. The American Mr . Drew went on different lines. The American
demand, which arose in 1880, gave an immense fillip demand, which arose in 1880, gave an immense fillip
to breeding along studbook lines, and by the date of Mr. Drew's death, in 1884, it became evident that
the studbook policy the studbook policy was to win. This end wa
reached, in spite of the undeniable fact that $M r$ Drew had bred many first-class show-yard anima.
outside the studbook limits, and these were ind form or other distributed throughout the country. Soon the question arose, what was to be done with
their produce? Was it wise to let them go permanently; was it not wiser to devise some means
whereby they could be brourt Whereby they could be brought into the breed as de-
fined by the studbook? The latter course was
adopted, because it was? crosses and seven parts reegistered breeding were the same thing, although the record did not read
quite the same. Hence, the existence in the stud-
book of pedigrees in which unnumbered sires and dams find a place. A further advence sires and
about ten years ago, when it was agreed one hand, that after, when it was agreed, on the that all horses and mares foaled prior to 1890 ,
showing two recistered crosses. would be numbered.
and that the standard from 1890 . hree registered crosses. Those who have would he Avarage mares do not breed oftener than one
to eliminate certain elementary forms of perligre from
the studbook. The idea here is that pedigrees sham
then the studbook. The idea here is that pedigrees showly
be anllowed to grow up naturally, and hecce the combparatively easy standard of three registered crosses. But that where a high standard is not made compulsory, breeders become careless, and rest content with th
minimum ; hence the short-pedigreed fillies which your minimum ; hence the short-pedigreed fillies which your
breeders complain about. These have, no doubt, all long pedigrees, if they had only been recorded, and your proposal to insist on five registered crosses will greatly
facilitate the work of those who advocate a higher facilitate the work of those who advocate a higher
standard here. The Clydesdale Horse Society had a very prosperous
year in 1905, and closed it with a capital of ouer year in 1905, and closed it with a capital of over
$\mathrm{f3}, 000$. The membership stands at nearly 1,400 , and the Studbook volume now in the press is the largest
issued for 14 years. The great difficulty here is to issued for 14 years. The great diffculy here is
get breeders to register their stock. Everybody knows
every other body's business, and the necessity for regis every other body's business, and the necessity for regis-
tration does not appeal to the average breeder as it tration does to dwellers in a new country such as yours.
sCOTLAND YET."

Indications of Feeding Qualities in Swine.
By Prof. G. E. Day.

It is an extremely difficult matter to convey through the medrum of words just what constical gains. There has been, however, so much discussion on the question of types of easy-feeding swine, that I am tempted to s'ay something on the subject in spite of the danger of being mis-
understood. In the first place, an animal that can make
economical use of its food must have a good coneconomical use of its food must have a good con
stitution. In this connection it is well to stitution. In this connection it is well to re-
member that a broad, heavy shoulder, and a broad, fat back, do not necessarily indicate constitution. If any person is inclined to dispute this statement, let him reflect for a moment upon
the conformation of a good type of dairy cow the conformation of a good type of dairy cow, a
compared with the conformation of a beef animal. There are plenty of beef animals that have broad shoulder-tops and broad backs that are seriously defective in constitution, and there are plenty of
cows which have sharp, pointed shoulders and cows which have sharp, pointed shoulders and
sharp backs which possess constitution to a marked degree. In other words, we must look for constitution to that part of the animal which No matter how broad a top an animal may pos
unsc, if it has a narrow, cramped chest the indiNums are that there is a lack of constitution. of fat type, we are at first inclined to think one the fut type possesses greater indications of constitution; but when we examine them closely we are forced to the conclusion that the difference in
actual thickness throuph the heart is more apprarent than real. If the hog stands with its
pore ront legs reasonably well apart, has reasonable Hepth between and back of the fore legs, and good he chances are that it will possess this point, lution, though the top of its shoulder and its back may be comparatively narrow. It is true that when a hog possesses extreme length there is a heart and in general depth of body. It is just here where breeders of the bacon type have to tions along the line of care, and make their selecTons along the line of producing an animal with
sufficient fength to give a good side of bacon, and eet with sufficient depth and thickness through the heart to ensure constitution. Thus, while the breeder may sacrifice a little of what the
packer requires, it does not follow that he must packer requires, it does not forlow that he must
sacrifice nearly everything which the packer requires, and select for a broad, fat back and a thick, heavy shoulder-top, which are not closely associated with the question of constitution.
Another thing which indicates a good feeder,
and an animal which will grow as well as become fat, is the quantity and quality of bone. An extremely fine-boned hog almost invariably runs towards fat, and lacks muscular development. On may be a slow-maturing kind, and lack the quality of flesh desirable in meat-producing animals. The ideal bone is somewhere between these two extremes in quantity, and the bone in the legs
should present a very clean-cut appearance, which is a sure indication of general quality. These strong-boned hogs will grow more rapidly than the very fine-boned type, and will weigh much tends to produce an excessive amount of fat does not, as a rule, make the most rapid growth, and does not attain so great a weight for its age as the pig which develops bone and muscle along to weighing these strong-boned, growthy pigs is likely to make very serious errors in attempting do estimate their weight. We have had many evibreeds were fed side by side
be attributed a great deal of the popular pre
judice against the bacon hog, but the constant use judice against the bacon hog, but the constant use of the scales will have a tendency
the most strong!y-rooted prejudive.
While a great, fat, heavy jowl is not necessar$y$ an indication of constitution or feeding qualities, at the same time the jowl should have good width between the angles of the jaws, and though
jowl should be well clothed with muscle, thour jowl should be well clothed with muscle, though
not overloaded with flabby fat. A very narrow not overloaded with flabby fat. A very chest.
Another indication of a good feeder is seen in the width between the eyes and the width and prominence of the poll. A narrow face and fore-
head, with a retreating poll, generally indicates a head, with a retreating poll, generaly this should be the case it is difficult to say, but experience goes to show that there is a close relationship beability to utilize food.
An abundant, straight coat of glossy hair, free from bristles over the neck and shoulder, constilutes another indication of thrift and general
To sum up the matter, we must say that we To sum up the matter, we must say that we
ook for a pig with good depth and thickness through the heart, as well as throughout the lower part of the body generally, though the top of the shoulder and the back may be of just medium
width. The length of the pig should not be excessive, but may be plenty long enough to give a desirable side of bacon; the bone should be strong and clean; the jowl wide, but neat; the
face wide; the poll wide and prominent, and the face wide; the poll wide and prominent, and the
hair abundant, smooth and -glossy. These, to my hair abundant, smooth and -glossy. These, to my
mind, are the principal points to be taken into consideration in judging of the feeding qualities of a pig.
I may add that the desire of many feeders to see a pig broad in the back, leads to the spoit-
ing of a great many otherwise useful pigs. Posing of a great many otherwise useful pigs. Pos-
sibly the time when this is most likely to happen is when the pig is from three to four months old.
If it is fed in a way to produce an excessive de If it is fed in a way to produce an excessive de-
velopment of fat at this time, it hardly ever recovers from it, and does not, as a rule, make satisfactory growth. We have had a number of promising litters spoiled by the feeder in this
way, and we always find that pigs that become overfat when they are three or four months old, seldom go to market at as early an age as pigs
which have been fed with moderation the aim be which have been fed with moderation, the aim being to keep them in good growthy, thrifty cond
tion, without an excessive development of fat.


The O. A. C. Stock-judging Team that Won the Spoor Trophy at Chicago.
Standing (from left to right)-J. Bracken, Prof. G. E. Day, H. B. Smith. Sitting (from left to right)-W. A. Murro, Prof. H. S. Arkell, G. G. White, H. A. A.
Craig. Prof. Day and his assistant, Prof. Arkell, together with Dr. J. H. Reed, V.S., were the instructors who trained the team.

Noted English Shorthorns of 1905. Specially written for "The Farmer's Advocate,"
illustrated with photos by G. H. Parsons.
The year 1905 was a
ars of Short eventiful one in the his-
The tory of shorthorn catlue,
ing bulls and females for the Argentine was bread marked than ever, and the phenomenal prices realized at sultes of imported and home-bred animals in that country give things an particularly rosy aspect which there seems every prospect of continuing. Trade at
both public and private British sales has been most buoyntit at Birmingham and in scotland during the spring a very large number of bulls changed hands, at
prices varying riom $£ 100$ to s 600 , prices varying from 1100 to $£ 600$. Two remarkable
private sales recently took phace ono at puscot Park privere sales recenty took place, one at Buscot Park,
where a draft from the fanous herd of Sir Alexander Henderson averaged over 90 for 56 head, and the other at Strattord on Avon, where Mr. Joilure's entire
herd changed hands at an average of $\varepsilon 120$ for so hend. herd changed hands at an average of $£ 120$ for so head.
Many other instances could be quoted to prove the Many other instances could be quoted to prove the
keemess of the demand for good cattle, but these isolated examples go a long way to prove that the
British breeder of high-class Shorthorns is more than ever to be congratulated on the prosperousness of his ${ }^{\text {position }}$ In the show-yard, too world. stand during the past season. In spite of the fact trat most of our best animals have found their way into thows do not appear to have suffered a great deal, as shows do not appear to have suffered a great deal, as
the magnificent displays at some of the leading exhibitions clearly indicate ; true, perhaps, some of the classes, particularly bulls, show a fating, of in quality and
numbers, but this is easily explained away by the prenumbers, but this is easily explained away by the pre-
viously mentioned export demand. Then, agaln, breeders are waking up to the fact that it it in useless on send
anything but the very best, and these at the top of anything but the very best, and these at the top of
their form, into ar show-ring tar beater stan their form, into a show-ring; far better stay away
altogether than be represented by exhibits that would have been better left at home. Quite a large number of animals of exceptional individual merit faced the judges during the summer show campaign, and the fol-
lowing brief notes concerning some lowing brief notes concerning some or the most prom-
inent of them will doubtless be of interest inent of them will doubtless be of interest.
Taking the bulls first, Mr. Robert Taylor's Royal Renbem naturally claims pride of place, if only on ac-
count of securing the Royal championship. This great count of securing the Ropal championship. This great bull, who is a rich dark roan in color, was calved on
March 4 th, 1901, and bred by Mr. J. Durno, of Rothienorman, Aberdeenshire. His sire was Lord Lynedoch (74900), and his dam Rose of Elle, bor British
Leader ( 60117 ).
Prior to

 derfuly thick-hashed bull, very ysymmotrically made, with a good top and underline, full and deep thighs, while
he shows to groent advantage on parade; his somewhat plain head, however, rather detracts from his otherwise attractive appearance. He made his first bid for vicjudges did not see fit to place him higher than tourthe this was, however, followed by four great succeases. namely, first and champion at the Royal Northern, first and champion at Edinburgh, first and champion cup at Birkenhead, and last, but not least, he headed a great
class of old bulls at Park Poyal, and was aftervards class of old bulls at Park Royal, and was afterwards
awarded the coveted male champion ribbon; the Dublin and Highland champion, Roan Conqueror, standing re serve. This concluded, his showquaror, career, and he
then left for the Argentine, from wher an eronts then left for the Argentine, from where reports are
just to hand of his sensational sale for $£ 3,230$ $(\$ 16,150)$, in the presence of over 5,000 spectators. vith his lichard Stratton had a very successful seaso pumber of prizes last year. ${ }^{\text {This }}$ This animal was bred by Lord Sherbourne. and was got by Majestic (74978), out a massive and very smooth-feeshed bull, with well-
a sprung, thickly-covered ribs, but his head is lacking it
gaiety of carriage, and he is not one tof the gaiety of carriage, and he is not one of the most
pleasing behind the shoulder ; however, he has points to recommend him, and is certainly one of the best old bulls that have been out this year. At the
Somerset show he was placed first. at the Gloucester Somerset Show he was placed first, at the Clloucester
Show (Cheltenham) first and champion, at the Notting ham meeting of the Bath and West and at the Welsh National at Abergstwith he again headed his class, being also champion at the latter
Doynton Brave
Doynton Brave Archer, shown by Mr. J. Deane
Willis, was .certainly the best two-year-old of the year. Hilis, was certainly the best two-year-old of the year
in fact, he is one of the best bulls of his age exhibited Tor a considerable period. Bred by Mr. J. Lear, oo
Doynton, Bristol, he was sired by Chewtin Doynton, Bristol, he was isired by Chemton Brave Archer
( 78578 ), his dam being Anemone 34th, by Viceroy (78578),
(73e14).
This
This beautiful roan is a very stylish site every respect, being particularly good in his back and every respect, being particulariy good in his back and
middle, though, perhaps, not quite fault tess in his head and just over his tail ; he possesses a thick, mossy coat
and carries himsell in that majestic manner sor and carries himself in that majestic manner so much ad
mired in a higheclass Shorthorn. Doynton Brave Archer did very well at the shows of 1904 , but this year he
easily ecilipsed his provious record, being first and chameasily eclipsed his previous record, being first and champion at the Somerset, ifrst at the Witshire, first and at the Bath and West, and first in a strong class at the Royal, where he was afterwards purchased at the auc tion sale by Mr. F. Miller, for 1,000 guineas.
wiltshire, has a world wide reputation Bapton Manor
much to the front with his yearling bull, orphan Chief. also produces some grand milkers. The roan non-
This son of
 tar of Ulster 78722 , was bred by Mr. L. Bonis, in peared in The Farmer's Advocate of January 255 th ,
Ireland, and is a very smart younster indead being is probably one of the most perlict dairy cows of and straight in his lines, carrying his flesh in the right breed that has ever been seen. She has been exlibitited Places, and a good dark roan in color. He was only with conspicuous success by her owner, and has gained
beaten beaten once, and this at the Royal, where he was placed the following honors: 1ross-irst, London Dairy Show;
 special prize), Bath and West, and Highland Shows. two cups, Cheshire County; frrst-and champion, Altringe Coming to the females, we find Mr. F. Miller's peer- ham; first, Mid Cheshire; first and champion, Middleless heifer, Lady Amy 7 th, who had been purchased by wich. 1905 -First and champlon cup. Royal, Lanca-
him from her breeder, the Earl of Powis, anain at the shire (outright); first, Great Yorkshire ; first and
 Iented ns a yearling, and this season came out looking diewih; first, Mid Cheshire; first and champion, Altringpossible to tot in a show animnt. At the poryal it is lin. she wns an easy first and one of the group that

Outlook for Sheep Husbandry
The hy

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Royal Emblem
Champion Shorthorn bull, Royal Show, 1905.
head, the female championship was awarded to her at wise in his day and generation. The in il ince, in owner
the Royal, in London, and she finished up by securing and breeder who, not despairing of the revival of the Deyby, in London, and she finished up by securing and breeder who, not despairing of the revival Lancashire, as well as first in her class. Lady Amy years, by judicious selection and the past few To a comparatively new exhibitor, Mr. A. A. Haily, tained or increased the quality of his flock, is of Malton, Yorkshire, belongs the credit of sending out is in a position to take the largest advantage of
the Jewel 6th, a roan daughter of the great breeding bull the brisk demand and high prices of the present Sir George (77891), and Bright Jewel II., by Life Guard; her breeder being Mr. T. Waind, of Ackness. She West: first Yotley; first, Lincolnshire; first, Bath and first, Royal, Lancashire; first and female champion, Hligh land. Bright Jewel 6th is a very perfect heifer at all points, carrying a wealth of flesh; she is a beautiful reat deal of her sweet feminine outlook displays ong figure for export.
The Shorthorn is


Pen of Southdown Wether Lambs International Show, Chicaco. 1905. Fen of hamblite any hy Sir (ine. Drade or cross,


Beaconsfield, Que.
the tide of fow a recognized fact is commercial life
With a finger the pulse of the ness to the demands of the present, and tience and resource fulness to prepare the future is of ent that should en sure success in the
life of any man, b he farmer, trades or. A stockman who takes advan to strengthen or improve his breed-
ing flock, and re-
fuses to breathe the atmosphere of dis couragement and mpatience under
which his neighbor
line. The presence of sheep on the farm, moreover
assists the farmer wonderfully in keeping his farm
free the land. Finally, the prospect of profit in the sheep trade is better now than it has been for
years, and the outlook is promising to those who have retained

How Long will Hog Prices Hold Up hogs have induced a large number of farmers go in again for this branch of live-stock hus. bandry, and the countryside is being scoured in
search of breeding sows. The effect will probasearch of breeding sows. The effect will proba-
bly be another oversupply, with attendant low prices. Just how soon values will get back to
an unprofitable basis is more than say, but our advice would be than anyone has or can get a good breeding sow, to put her to the boar, in the reasonable hope that her low. At the same time, we anticipate a slump in the not distant future, and sound advice to the business on the strength of present prices, is: Wait till hogs are flat, then select some choice
sows when they can be had cheap, breed them and sell their produce on a rising market. By
this we do not wish to be undergto ing the plan of changing about in turn from one line of farming to another, nor do we approve the plan which a number have expressed an intention
to follow-of going in for hogse ac Such a system makes insufficient provision for Sucha system makes insufficient provision for
utilizing the farm forage. The most proft is made by keeping hogs as an adjunct to some
other line, particularly dairying, and there is room in Ontario for an immense number kept in this way. The best practice in hog-raising is to keep turning of a few every year, high prices or or
low, but planning to breed a few extra when prices have for some time been low, for nothing
has been more emphatically ence than that high prices follow low. The only real problem is to tell just when the tide is ready
to turn, but one will not Curn, but one will not go far astray if he
watches closely how the crowd is going, and

## Advanced Registry of Shorthorns.

The equestions propounded Auder the heading, "What
of the Dairy Shorthorn," in your isue of February 1st. or cerary shorthorn," in your issue of February 1st,
are certainly important ones, and the whole matter is worthy of very careful consideration. To mote mind, mater
there is a place in this country for the strictly beel-
producing shorther producing Shorthorn. Such animals are of great im-
portance in improving the beef qualities stock of the country, and I think it would be a mistane to admit anything which would tend to draw attention away from this important quality in Shorthorn cattle.
At the same time, we know that many cows which are
tamous for the eccel Camous for the excollenco of their calles trom a beet
standpoint, are also heavy milkers. We find good wilk
 plainly-bred Shorthorns, and wherever the ability to give
a large fow of milk exists, it ands a large how of milk exists, it adds greatly to the value
of a co in ine osteem of the thoughtrul breeder. Such being the case, it would appear advisable to take some
steps towards giving prominence to those Shorthorns stens towards giving prominence to those Shorthorns
which possess the accomplishment of giving a good fow of milk. At the present time there is a olitevy demand
for milking strains of Shorthorns, but seekers of this class of cat tle have great dififculty in in inding what they
want, and it seems to me that Shorthorn breeders can
 Ereaty assist the elforts, of those who are making
specialty of milking strains, ,y furnishing a means
irringing these usefult catlo How shall it be done? Should we estallish
 Tanks of Shorthorn breders. But would it not be pos-
sible ot start a sort of advanced registry, on simi
ilar lines to those followed by certain dairy beeds? Tinder such an arrangement all Shorthorn cattle woull
still be recorded in one book, but those which came op to a certain minimum standard in point of milk or but-
ter production would have their mames and recordsem-
(erped in a special pulhication, which could be printel
 inspection, as official tests of dariry cattle are mate
Such a plan would entail but very little expense, would
Surove



## A Study of Breeds of Swine.



A Chester White Sow.
Yorkshire boars, produce an excellent feeding class. Chester White sows are prolific, and are Some of the principal points in the standard
Chester Whites are : Head Short for judging Chester Whites are: Head-Short,
broad between the eyes, and tapering from eyes o nose. Face Slightly dished. Ear-Not to large, drooping, thin, pointing outward and for
ward. Neck-Moderate in length, full and strong Shoulder-Smooth, fitting neatly into the body and straight in line with sides. Back-Straight ing even width back to hams, full back of shoulders. Ribs-Well sprung, deep, coming well down
behind forearm. Chest-Wide Sides-Full dee behind forearm. Chest-Wide. Sides-Full, deep,
carrying thickness well down to flanks. Strong and full. Hams-Broad, full, deep, o medium length, coming well down over hock Limbs-Mediun length, short rather than long set well apart and well under; bone firm, not
coarse, pasterns short and strong, foot short and straight. Tail-Moderately small, tapering, smooth, well set on. Coat-Fine, thick. Color-
White, blue spots on skin, and black specks. White, blue spots on skin, and black specks do not
argue impurity of blood. Action-Wasy, prompt argue impurity of graceful. Symmetry-Uniform build, and a!l points in proportion. General appearance large,
long-bodied, yet strongly built, with good limbs
Registration of Chester Whites is conducted by
the Standard and American Associations in the United States, and by the National Record Board
in Canada. The registrar is J. W. Nimmo, De-

Eating frozen silage is a fruitful cause of in-
digestion in cattle, just as frozen bread is injurious to human beings. On account of the suc-
culence of silage, when it is eaten in a frozen state a large quantity of ice is taken into the
system. This has to be melted, and the tem perature of the water raised. Meanwhile, the se-
cretion of digestive juices is checked. It is he ing the stuff in a pile will usually serve to set up a fermentation that will thaw the frozen portion,
but if it doesn't, hot water should be used.

## Refuses to Join the Stompede

 Editor "The Warmer's AdvocateThe present phase of the hog queation reminds me of the diverting history of John Gilpin, who, after going farther than he intended, as he was returning, had the
after him, when lo,

All and each that passed that way
Did foin in the pursuit."
Everyone is after the packers just now hotfoot, and possibly they can stand are making I am not prepared to say that they are making
more than they should, but it seems to me there more than they should, but indulged in. For instance, the demand that a puiform price.
Fe paid for the whole year is an unreasonable one. be paid for the whole year is an unreasonable one.
It would be impossible to tell what the plice might be a year ahead, and then the buik of hogs might be a year ahead, an the market at a time
raised would be rushed on the
of year when it is generally considered they can of year when it is generally considered they car
be finished the most economically. be finished the most economically. price paid of
Mr. Freeman complains of the pit late years, declares a great many have quit
raising hogs, and many more are likery to raising hogs, and many more are likery the
do so. I confess I see no just reason for the scare. If 51 cents is a paying price, what abouit money out of hogs than any other kind of live stock, considering the money invested and the cost of food consumed. I decline to foin the
stampede. I intend to stay right where I amm I stampeder selling a load of hogs for 83.75 per cwt., and kept right ond. I fail to see fust cause
for stopping at the present time. $I$ would like to for stopping at the present time. prices of food quoted ly Mr. Freeman. He speaks of obits boing worth 45 cents a bushel, and mangets 10 cents per bushel. The times whien oats for foed brint 45
cents a bushel are very few indeed ; they certainly cents a bushel are very few indeed ; they certainly
are not that high now. Mangels linvo seen sold are not that his atrict at auction sales, end by private
in this distle as well, for 5 cents per bushel. inink
sale as sale as well, for 5 cents per bushel. I think
Prof. Dean's estimate of prices about correct, Prof. Dean's estimate of prices about correct,
rather above than below the evverege, via, $\$ 1.06$ per cwt. for chop, and 6 conts per bushisl for mangels. But, granting that feed is high this
winter, won't we get the same price for our grain winter, won't we get the same price for our grain sold in the shape of pork, when chop is $\$ 1.25$ per
cwt., that we would when chop was onily $\$ 1.00$ per cwt, providing pork was the same price both
times. If we are losing money by feeding hogs
when when grain by quitting hogs then, to begin again when the price of grain came down?
There is another claim
at present that I cannot agree with very that is that the short, thick hog is the most profitable one to raise. My experience would lead me to the very opposite conclusion. I shall stay with the long
hog for the sake of profit. At the same time, I hog for the sake of profit. At the same time, I quality. It is surely unfair to give the same price for short, thick hogs that is given of A 1 singers.
The and the pork-packing industry \& debt of igretitude, I. should be very sorry indeed to see th/s great and profitable industry break down, and strongcontrary notwithstanding) the great Bull of the hog-raisers are quietly deciding to go on in the
even tenor of their way.
ADAM BATY. Middlesex of their way

The Ship and the Farmer.
thusiastically"' recommended a ship subsidy. The same association, we believe, heartlessily deridied the late Senator Stanford's plan to establish a
vast system of Government. agricultural regions, the treasury to lend itsisurplus to farmers at low interest on the hay. wheat and garden-sass stored in the warehouses. plays in business. You cannot get up sentiment mantic fervor over the farmer. You cannot picture him going into action with the Stors and cornfies nailed not the mis mizzen-mast. He plows the the Government make him Christmas pry should With the shipbuilders it is entirely different. The real argument is that ocean rates Gre now bounty in order to operate profitably. Government words, foreign Governments pay large sums ot out of their treasuries in order that our goods may
be carried over seas at low rates. be carried over seas at low rates. goods may all
other directions it is considered good policy to let the other fellow do the business that nets a loss. But not on the vasty deep. We. . should
have a merchant marine in case of war Tre have a merchant marine in case of war. True, in war of a merchant marine the principal use gets and prizes for the enemy's battlearinish tar think of the glory ! If we should go to war with a first-class power to-day her cruisers might scour the seas without finding over half a dozen is certainly a humiliating position:-iv, $\dot{S}$. This
change.

## THE FARM.

## A Well-ventilated Barn

The accompanying basement plan illustrates a sim. ple, compact and convenient barn, $82 \times 84$ feot, for bee eral years, past on the tarm of Messrs. D. and M. MacVicar, South Dorchester Township, Elgin County, Ont.

The beesement walls are built of large brick with moment concrete sooting. It is all under one with a a solid brick wall separates the horse and cattle stables, | and aids in supporting the superatructure. The Thence. |
| :--- |
| for vehicles ("drive shed" on plan) |
| $44 \times 36$ teet |

 the horse stable, $86 \times 48$ feet : cattle stable, 48x82 feet.
The cattle stable housee 80 head very comfortably; the stanchlons tying 50 head of full-grown cattle, 35 in ench row, and the box staill saccommodating about 30 head
of yearlinga.
Except in of Yearlings. Exincept in the "a drive shed," all the
fioors, Including gutters and passages, are cement. The upper part of the horse stalls is fisibhed with $t$ round Iron, which allows a froe passage of light and alr. For
all the horses tilting mangers (hinged at bottom), with all the horses tilting mangers (hinges at bottom), with one siat opening in bottom to let dirt and chaff work
through on to the loor, are used. The cattlo box stalls are also attod with these swing mangers. The horse box-stall doors are 4 . Yeet wide. Manure aled
and horses are used to clean out all the stabling. The and horses are used to clean out all the stabling. The
stabolea
are
well
lighted, with
29 windows of 9 lights, stablee are well lighted, with 29 windows of 9 lights,
$10 \times 12$ Inches each, three in the upper sash, every other one of which are hinged at bottom to be opened if desirod, and six lights in lower sash. To Mo large chutes
troom above brigg hay and straw into wattle teod alley. trom above bring hay and straw into cattle feed alley,
and one in the horse foed alley. From the granary and one in the horse foed alley. From the granary
above smaller chutes carry chop to the cattle alley and oats to the horses.
An outstanding feature of this barn is the ventilation system. On the peak of the north end of the roof
io a large cowl., which turns to the wind, connecting with a galvanized iron pipe, 30 inches in diameter Which extends down through barn to a wooden box $3 \times 6$ reot, and about 10 feet depe, which opens into a cement
hole 6 feet square below stable tloor hoie ${ }^{6}$ Ieet square below stable tloor,. marked "air" in
eut. ${ }^{\text {From this }}$ hole six 12 -inch tules, 6 inches helow ficor, run out in three different directions, carrying
tresh air to all parts of the stables. $\mathrm{T}_{0}$ ruise it
 upper sides about every six feet with four-inch tiles
uppors through which the air empties in front of every pair a cattle and into all the box stalls. Wooden boxes b. the walls are provilded in the latter for the purpose,
with openings on side, covered with strong wire netting The front of the cattle mangers are made of lnch boards, inverted-V shape, about 3 ft. high, and the
tiles open into this throughout, and the air passes out

through openings also covered with netting. The writer examined nearly all of these openings, and without ex The moist, heated stable air passes upward through the three large feed chutes. The proprietors think the system might be improved by more exits at the ceiling, dut state that, as it is, the stable arr in the morning before, although the basement is flled with cattle. Last winter the temperature of the air coming in was raised from 20 below zero outside, to 10 above at the expenditure of The owners are well satisficd with the such results in ventilation. In the cattle stable thre pairs of the large tille are in use, in order to provide a sufficient volume for the cubicair space of the stable turning from south end under dotted ines. On retiles just runs half way along, and then its mate crosses in and takes its place the rest of the distance. This is practically the system once described and recommended in "The Farmer's Advocate" by Prof. J. B.
Reynolds, of the Ontario Agricultural College. The stable ceilings are elght feet high. The cattle are turned out to water, but a system of inside troughs is contemplated. There are doors into the manure passage way from all the box staits, so that they are easily north end, opposite feed-alley door. Considerable space
ner for root storage could be provided il a covered approach were constructed on east side of barn to the
upper barn floor, and a door made through wall into upper barn floor, and a door made through wall Into
one of the box stalls. basement to obstruct light, and labor has been reduced to a minimum. In these days this is all-important. The lay-out of the upper part of the barn is als
simple. One barn floor 21 feet wide runs east, the approach being from the former side west across the north end of the barn is a bay 26 ft . wide and south of the floor two bays 14 feet and 21 foe
wide, respectively. Out of the middle of these is taken wide, respectively. Out of the middle of these is taken
the granary, $24 \times 85$ feet. From floor to barn peak the granary, $24 \times 85$ feet. From floor to barn peak is
46 feet, and three car tracks are used for unloading hay and grain. The roof has about 1-8 pitch and 51 ft rafters, and is supported by four purlines. There ar
three large house windows in each end of barn. and two three large house windo
to light the barn floor.
Case of Cause and Effect.
You will find enclosed a chenue for , being pay-
ment for advertising of my sale. I think the money
was well spent as I shipped to buyers from a distance
22 animals out of 42 animals. It appears to me that
those who want good stock are subscribers of your
paper.

| Wellington Co., Ont. |
| :--- |
| HENRY B. WEBSTER. |

Case of Cause and Effect ment for advertising of my sale. I think the money 22 animals out of 42 animals. It appears to me that those who want good stock are subscribers of you

Cement-Silo Building-Frozen Corm.
I have read with interest and profit the artictus your much-esteemed journal about silos and silv-luilld respondents did not cover all the ground. In Jour co $18 t h$ issue a writer told of farmers in his locality huill ing silos of nine inches thickness at the base. I woul like very much to hear from some of those men who
have built and filled silos of this kind. It is a saving of thirty per cent. in gravel from the kind an tioned in the letters of January 11th. This would mak a good round sum saved from each silo if the propo Cions of cement and sand were the same in each case plastered inside and out with one part fresh llme an part cement to four of sand. They claim this adheres better than cement and sand alone. We get one 12 feet diameter, and 35 feet high, built and finished as
above for $\$ 170$; we have to furnish one team to assist. Here I misht say that I would advis any one going to build, not to make their silo less than
14 feet in diameter. The same gang will huild it a sume time as one smailer, and it can will build it in the too, so that there is some economy of lahor. th smaller one always spoils the day, and you have make it good to the help. while you never get the ful a cement wall. I can't see how of putting in stone on tight to the bottom side see how anyone can pack gravel opinion the wall would be better made an inch or so of a ror, and the stone left out. I am much in favor root, with the back end about four feet from the do then, on filling day have the blower pipe the door the roof-say, three or four inches-and this will drop the corn in the middle of the silo, and is very handy have a hopper, One man can easily do it. Some here moving around, but I have noticed the bag doesn't last long, and I don't want to be the fellow who has to athave a new one. I have found it very convenient to sillo is, so when cut to the end of the barn where the can go in the silo and one in the straw : then by throwing down forkful about it will mix as well as if it is put into the stable, and done layer about, and much There is a good deal of talk about clean gravel for cement work. Well, Mr. Editor. I put river gravel Into
mine, and it seems ns anyone who has good river gravel set some of it on a
box for a test. and if it sets box for a test, and if it sets all right there I would
not hesitate to put it into a wall of any kind The not hesitate to put it into a wall of any kind. The
gravel must be evenly mixed, large and small, or it will gravel must be evenly mixed, large and small, or it will
not be as strong as it ought to be ; the coarse stuff will not lie close enough to hold well.
Some one asked some time ago about putting $\ln$ dry
corn, and the best method of adding the water. I would corn, and the best method of adding the water. I woul
 and
milk stage. I I at it two days after, and It was si.
days after that hefore I got it days after that before I got it to the silo. II had it
shocked up, and as the weather was very warm it got shocked up, and as the weather was very warm it got
pretty dry. The bundles only soemed about half the weight they were when I shocked it. Men were scarce,
and with much fear and trembling I put it in and, sir, I am well pleased with it, so much so that future I intend to shock it a few days each year. This
might not do for well-matured might not do for well-matured corn. Frozen corn has
lost all its terrors for me, and I would say that even The best method I have seen for wetting the corn i
a barrel or milk-can set full of water near the intake a barrel or milk-can set full of water near the intake of
the fans of the blower. Set the can a little higher
than the fans. Take than the fans. Take a hose (it must be air-tight), fill
it with water ; it must be long enough to reach the bottom of the can inside and out when doubled over the
side. Drop one end into the can and fasten the other side. Drop one end into the can and fasten the other
end near the fans, and as the water runs out the fans
will draw it and distribute it with the corn. The end
che mell

Pointers on Building Round Cement Silos.

$$
\begin{aligned}
& \text { silus are } 12,14 \text { to } 16 \text { feet in diameter, and } 30 \text { to } \\
& 35 \text { feet in height. In building the wall, we have } \\
& \text { liftert the steel rings as often as three times in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { one day. This would build } 7 \frac{1}{2} \text { feet; but if we } \\
& \text { huild } 5 \text { feet we think we are doing well. I like } \\
& \text { scaffolding on the outside best, say eight poles }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Seafolding on the outside best, say eight poles } \\
& \text { athout five feet from sild all around the outside, } \\
& \text { with tie poles from one to the other to lay plank }
\end{aligned}
$$

 larger than the 18 -in. fily upderneath, and no openinge are mown from the tile in the row of box stalla
along the east gide.

$$
\begin{aligned}
& \text { The commonest dimensions for round cement } \\
& \text { silos are } 12,14 \text { to } 16 \text { feet in diameter, and } 30 \text { to } \\
& 35 \text { fert in height. }
\end{aligned}
$$


$\qquad$
$\qquad$
would y to get you some mo

Some Bara Plans Re-published. Scarcely any topic is of more gencrat intwns We are constantly receiving requests from readers to publish plans suitable for their purposes. It is out of the question for us to answer each one
specifically, but we herewith give three plans of speciicaly,
different styles, which we think pretty good, and which may give helpful suggestions to those intending to build. They have been selected from among a large number that we previously publishtime. The Tillson barn is for dairy cows and calves only. It is not suitable for the average farmer, itself as simple, convenient and roomy there the itself as sintation for 75 wown ing accommodation for 75 cows. A modification
of it might suit some large dairymen.
Descrip-
Mi." appeared i",

The barn of J. P. Beattie is intended for beer are shown also horse stable and cand, and there attached to the barn, but not in it-a good fea ture and pigpen, the whole outfit, in fact. Approaches to barn floor are from both sides, over
box stalls, which it was proposed to build underbox stalls, which it was proposed to build under-
neath. arrangement. This plan was published, with de Scription, January 15th, 1902.
We give the plan of J. H. M. McClary's barn, bealso becuuse of its extreme simplicity and its convenience. Here, also, driveways are utilized
for box stalls. This plan with descrita for box stalls. This plan, with description, will
be found by those who have preserved files, in be found by those who have preserved files, il
our issue of January 15 th, 1963 . Unfortunately we are not able to supply copies of the above pe are not able supply copies of the above
papers, but anyone sending us one dollar may
obtain a typewritten copy of the original description of any one barn


Driveway 8'x 125


## Feed Room

Silo
(above)
$153^{\prime} \times 19^{\prime}$

ariveway

rn built by the late E. D. Tillson, Tillsonburg, Ont.
A Path to Prosperity. A. ${ }^{\text {I received the premium, "Veterinary Elements," by }}$ a. Hopkins, and 1 am weil pleased, but will not be
sat isfied till moro of our neighbors enjoy the reading of
. your valuable paper, as we find it a path to prosperity.
Wishing you a prosperous year.
WM. WATT. Wishing you a prosperous year
Lambton Co., Ont.
And you are sure your label is marked up for
IVe are waiting for that renewal

A Strong Case for Woodland Iremption. prove of legislation which shall not only choce soils and rour in on toug to on courage the farmer to re-lothe all such unsighty land scape and unproftable sothe as should never have toeen uncovered. I go tarthar: I urge that the fntelligenco and wisdom of the whole. Province may rise in ite mighi and demand that something be done to avert the ruinous consequences that must follow in the wake of an ver-clearance of our Province.
This great question of the maintenance of the proper relation of cleared and wooded lands is of public fmport, as many an older peoplo has proven to tho morld, and the people of ontario shouid hest their beare they Since, then, the ouestion of the conservation of a proper percentage of our lands in woode is of publicic interest, I believe the intelligent public will back up a judicious expenditure of public moneya on: 2. The furnishing, free gratis, if seediling troes to 11 who will plant them and conditions.
3. The exempting from taxation all lande eet emert for future forest growth under approved conditions, without any exception as to lind of trees or percentage
of or total acreage of single ownerahip. only so the of or total acreage of single ownership, only eo the
growth shall fulalil its purpose from an mathetic,
cil
 come immediate lav in all townships, the roturne of which show less than twenty per cent. of the aereage in woodland, leaving it as local option only to the munt-
cipalities having more than the allotted percontage. Even where there has already been an overcutting of wood there is very likely yet some fertile farming land under forest growth which will be cleared away in good Judgment. The purpose must be to conserve the wood
growth on the poor and rough land, and re-afloreat such growth on the poor and rough land, and reaforest such
as should not have been cleared, and to this end there niust not be any restraining or hindering obstacles. Education and seli-intereat will decide what varitities
of wood the individual will grow; the public intereats

 to be used for wood-lots, othhrs have under tillage a large percentage or land that does not give adequate ro-
turns for labor invested ; besides, the buying and selling and subdividing of farm property would bring about some very provoking ,and unsatisfactory conditions, if there should be restrictions of percentage exemptod; either of land or per owner of individual property. So you may do, through the effective medium of "The Farmer's Advocate;" to agitate and bring about legislation to encourage a replenishing and conserving of our forest wealth. Our valuable land will not return to
the woods ; our poor and broken landig cannot return too soon. ANSON GROH. Waterloo Co., Ont.



Fthe Cross-pollination of Plants.

## By Eunice

In order to understand anything about the crossfertilization of plants, we must first learn the structure of the blossoms. If we examine an apple blossom, we
find underneath green loaves, called sepals : above these find underneeth green loaves, called sepals; above these
are five petals, the most conspicuous part of the flower are five petals, the most conspicuous part of the flower,
white in the center rise the pistils, which are surrounded by a whorl of stamens.
The sepals are persistent, protecting the blossom bud
before it opens ; in the apple they form the before it opens; in the apple they form the five tiny
appendages round the eye of the fruit. appendages round the eye of the fruit. The petals fall
soon after the flower has been fertilized, their mission being to attract the insects. The stamens are modified leaves, consisting of anther and filament, corresponding to leaf stalk and blade of ordinary leaves. The anthers
are divided into four chambers, in which are produced the polten grains, or fertilizing dust. [Ganong, in " The Teaching Botanist, page 147, says : "Another
common error is that of attempting to homologize the common error is that of attempting to homologize the
parts of the stamen and of the carpel with the parts of the grean leaf.".J. D. D.]
The stamens and pistils,
, alkough generally the most pistil is also a modifed leaf, though it is dificicult to and stigma.
The ovary is a partitioned cell, in which grow the
ovules, or rudimentary ovules, or rudimentary seeds; in different plants it
varies in shape and size. The ovules are varies in shape and size. The ovules are attached to
the ovary wall by a tiny stalk, and they eventually hol come the seeds when fertilized.
The style is not present in all flowers, but its use
to elevate the stigma, and to secure pollination to elevate the stigma, and to secure pollination.
On top of the style grows the stigma, or polle ceptacle ; it has a corrugated surface, which serves retain the pollen: it also secretes a sweet, sticky substance, which causes the pollen to adhere, but its chief
use is to nourish the grains, and to enable them to use is to nourish the grains, and to enable them to
grow down the style, until they reach the ovules. Such grow down the style, until they reach the ovules. Such
growths are called pollen tubes ; the sweet secretion does not appear until the stigma is ripe enough to be pollinated.
Pollinatio
Pollination begins to take place when the pollen
grain is deposited on the stigma if all the are right, it begins its downward course, forming the cylindrical pollen tube, which threads its way between the tissues of the style, absorbing its nourishment from the food which the stigma has prepared for it. pollination. Some flowers cannot be naturally fertilized
by their own pollen. Many flowers are necessarily their own polien. Many flowers are necessarily crossed ; willows bear one sex only on each tree, why
the cucumber family bear two sexes on one plant, in different flowers. Nature employs many agents
ind bring about a cross ; perhaps the most eflectual one the wind, which pollinates grasses, sedges, and pines.
It is noticeable that wind-fertilized flowers conspicuous, mostly blooming in the springtime, when
winds are prevalent. They produce an ahundance pollen, which is blown hither and thither, almost ever blossom being fertilized, although much of the pollen is
wasted; this waste being provided for by the production of a large amount of pollen in such plants. Water
is less common in aiding cross-fertilization, yet. the water flowers are pollinated through this agency one of the most interesting methods occurs in Vallis-
neria. The plants produce staminate neria. The plants produce staminate and pistillate
flowers: the staminate opening below the water. while the pistillate rise to the surface and expand, meanwhile
the staminate are preparing to set free pollen, which the staminate are preparing to set free pollen, which
also rises to the surface, and floats until it comes in
contact with contact with the stigma, then the pistillate flower is
drawn down to the bottom by the coliling of the long stalk, and the seeds mature in safety.
[The staminate flowers do
1The staminate flowers do not open below the
water. They break ofl, come up to the surface, and then
shed their pollen water. They break off, come up to the surface, and then
shed their pollen around the pistillate flowers.-J. D. ] Many flowers are adapted to cross-fertilization by i
sects: indeed, some flowers depend wholly upon them f their pollination. Only certain kinds of insects are us
ful in aiding cross-fertilization: these are those with hairy backs, bees, moths, flies, butterflies, and with
kinds of beetles kinds of beetles come in this class: insects like ants,
smooth-backed beetles, bugs and the like, are of no use
in in pollination, especially crawling ones, which the plant
discourages, and even checks their visits to the flower discourages, and even checks their visits to the
ISome observers say that Scrophularia's pollen Insects are attracted by brightly-colored petals, th shape and perfume of the flower. The most important
of these are the bees; they do everything systematicalIy : if they are visiting foxgloves, they always begin at
the base of the spike, thus transferring pollen from the the base of the spike, thus transferring pollen from the
ripest flowers to the ones above. Not only does the
been do everything systematically, ond before the majority of insects have stirred, and never tiring until the sun is setting. In a bee is visit-
ing: a raspberry patch, it continues to do so until the ing: a raspberry patch, it continues to do so until th
whole patch is finished. It it went from raspberries
hhackerries, gould be a mutual loss for the fowers
rertilized, and the quality and color of the honey would
be inferior. |As a rule, nectar-seeking insects do not IAs a rule, nectar-seeking insects do no
tinfior. from one to another kind of flower at haphazard.
t in l

Many trees caunot set frust at ell, unloss they a
cross-fertilized ; this is evident in peach cross-fertilized; this is evident in peach and melon cul
ture under glass ; each blossom must be pollinated transferring pollen on a brush from flower to tower in the case of the peach, but in the melon house a stam-
inate flower is inserted in a pistillate one inate flower is inserted in a pistillate one. Some varie-
ties of apple are self fertile; that is, they are able to set fruit with their own pollen ; such varieties are the Baldwin and Greening, but it is quite possible $t$
they would be better for a a cross. Often the best varie-
ties are self sterile; that is, they cannot set fruit un less are self sterile; that is, they cannot set fruit u
lests deposit foreign pollen on their stigmas the Bishop. Pippin, Gravenstein, Red Astrachan, Pr mate and others belong to this class, therefore it better to mix varieties in an orchard. [" Cross fertil
ized $"$ is not the appropriato word. Some trees do self fertilize, because either
virile pollen, or (2) they need assistance from insects,
etc.
All the pruning grafting 1 as nothing towards the production of fruit, unless the blossoms are pollinated, and this cannot be accom plished except by the presence of insects.
While the bees are rendering this service, the flowers spread for then feast of nectar, which the insect pollen, bee bread; thus the bee depends upon the flower for existence, just as truly as the flower depends upon
the bee. While everything is done to encourage the bees, jus the ants. Like the bees, the ant family is a hard Working set, but they seem to lack application, and
the misfortune to be of little use to the fowers
the misfortune to be of little use to the flowers; mos
of them crawl, and as this is a more laborious moth of reaching flowers than flying, they crawl up the firs stalk they come to, regardless of the family of plantsthat is, if they can ascend it. As ants have shin would probably waste it on other plants of differen orders, and as it is produced at great expense to the plants, they cannot afford to waste it ; so downward
pointing hairs are grown on the stalk, which prevent the robbers' ascent ; endless other devices are arrangedhoneysuckles and teazels, which hold the rain water, and
drown drown all climbing adventurers. Exceptions occur, when
the flowers encourage ants as a protection hrowsing quadrupeds: even then they are nover against inside the flower, sweets being secreted on the outside
for their beneit.
(Ine seldom finds water amplexical leaves for any length of time.-J. D.]
F'lies, unlike bees,
fumes: generally the most vile-smelling flower is a fly
odors; it is supposed to lure characterized by an its evor
of decaying meat. In the calla we find two rows of
flowers, the lower pistillate, and the upper staminate
at the base of the white trumpet,
caller ward pointing hairs, formine whorls is a row of downguarding the floral chamber. Flies are attracted by the
odor, and proceed down the odor, and proceed down the spathe to investigate, only
to find that when they have passed the barrier they are prisoners. In vain they $\mathrm{n}_{\mathrm{y}}$ upwards. In so
doing, they jar the pollen on the pistillate flowers
which ine they have worked at this trapped them for: when wither and release them. II have read of this treats
ment of insects by a species of aristolochin. The evening primrose, honeysuckle and many othen are nocturnal flowers, for the same reason that others
are diurnal, to secure cross-pollination able that evening flowers have long necks, or corolla
tubes, down which no bee could eet its prol oscis, all they often remain closed during the day. opening only
at the approach of night. Nocturnal flowers are white.
yellow, or some light yellow, or some light color, which stands out in thi.
gathering gloom, when others, hy reason of their colors have faded from view. This is only another device 1
ensure cross-fertilization-hy moths. These insects ar
attracted from ensure cross-fertilization-by moths. These insects ar
attracted from long distances ty the sweet perfume
evening flowers, which is often more powerful after th twilight has deevened it is a noiseless wall to the nithe
 brushing the anthers and stimmas with their hairy, "
most feathery little bodips. All these contrivances show how bautifully natur..
has arranged plans for cross wher ilization. Thie aim
all plants is to perpetuate the

 that have been cross fertilizedf. (russinge strpengt ar.....ing th
type, while inlreeding woakens it Crossin. long been practiced by man The promemitors of then
apple of today were oncen crubs, some as inamen
haps no
$\qquad$

that no other single factor has wielded so potert an Nuence in tho plant world as has cross-fertllization?
[Selection rather than cross-pollination together, but usually the first is of greater importanc respect to improvement of varieties.
Oats and some other plants are fertilized before the auwer opens. Chlorophyll-digestion is a fnctor vastly
more important than cross-fertilization.-J. D

## Fireside Philosophy.

## When everyone else plunges, stand pat

Labor is valuable nowadays. Are you wast
Theory is a matter of principle; practice a
matter of detail.
How about the manure heap? Fermentation loses us nitrogen; leaching loses us nitrogen, pot ash, and more or less phosphoric acid. Leaving
the manure in the barnyard mortgages our tim next spring. Can we afford these leaks

Sow barley on the old root or fodder-corn patch near the barn, and seed it down to clover reason for growing roots year after year on the one spot. These old root patches are sink-holes
which annually swallow up many tons of manure badly needed in other fields, while the same fields are almost certainly in need of a cultivated crop " It is time for a change

The essence of the principle justifying a law to exempt woodlands from taxation is that any interest of the individual into line with the inter

When dissatisfaction begins to brew there is nothing like bringing things to a head. The rein the conference at hor question, culminating much to clear the air, and the hog business now be persuaded to discriminate in price against the thick, fat hog, there will remain no reason-

## Approves of Exemption.

You are certainly in order in drawing attention to the condition of our remaining portions
of forest, and to the need for energetic of forest, and to the need for energetic action. if
they are not to be completely cleared off. That
in many sections very well known to all very little timber remains is London there are not nearly country surrounding acre as in the city itself, and the city trees are
much the most thrifty. Something ceems to be
out of joint when tural condition more growthy forest in its nathan for miles around. Probably the most feas-
ible plan to create an interest of wood-lots would be as you suggest-for th ties to exempt pass an Act permitting municipal ties to exempt from taxation, say ten acres, on reserved strictly for the growth of that it was
stock being rigidy some being rigidly kept out. By this mean vatiperate with the Government in farmers to vation, and attention would be drawn to the pos-
sibility of keeping up on the wood-lot and continuous growt of timber. Many farmer
do not believe that The idea has prevailed that is such a possibility The idea has prevailed that. not only doess it pay
to curt down the woedds and buy coal for fuel, but
that it is impossible to cavel are doomed. The first notion is not so ; the her-barrel tincher, for the rise in the price of luml
thagreer neople- but ong such as to stagger people: hut the helief that it is now too
late to do anything is common tion, especially if along the line of bonus by tax
xemption, would fo mucher nd people would soon learn to dispel this error,
 stem of paying bringe into play the degrading is charly in the pmblic interest ses rut as iom hows most of itcomps of forcest, the obliec

Always Welcome.

The Uees of Lime in Agriculture. Lime itself is not usually valued as
rtilizer. Its action is indirect. What more, perhaps, in the nature of stimu has, however, a not important place in pr has, however, a could be used to excellent vantage on' many farms in this Province.
Lambton we have not a few acres of low-1 Lambton we have not a few acres of low-lying,
swampy soils-soils which are called sour, and on swampy soils-soils which are called sour, and oi
which the ordinary farm crops do not thrive
Then too we have, in common with other parts Then, too, we have, in common with other parts
of the Province, considerable areas of rather heavy cluy land that is heavy to work, that bakes and is difficult to manage on each ot these
kinds of soil lime has a beneficial effect. It cor-
rects the sourness of the onc, and relieves the rects the sourness of the one, and relieves the
tough, tenacious nature of the other. It makes the swampy soil sweet and fertile, and fit for the
growth of plants, by acting chemically upon the
jegetable acids whose presence induces the sour vegetable acids whose presence induces the sour-
ness, while it relieves the tenacity of the clays are caused to coagulate together into grains of larger dimensions, forming a soil that is more
readily cultivated, more friable, more easily drained, and less likely to bake if worked when wet. We wish to consider briefly these two uses
to which lime may be applied. areas from the seepage drained into them from the surrounding higher land and from the growth and
decay of water plants, mosses, etc., which finally decay of water plants, mosses, etc., which finally produce a soil sufficiently fertile to sustain certain
of the higher plants, but which are seldom capable of producing to the best advantage any of the ordinary agricultural crops. These soils may
not occur in very large areas-in fact, in most cases their extent is quite limited-but wherever
they do exist, their occurrence is due to the same cause, and the same remedy may be applied in
correcting them. By the farmer they are termed correcting them. By the farmer they are termed
"acid " or "sour," and their acidity or souracid or sour, and their acidicy or sour-
ness is due to the fact that in their formation,
through the fermentation or breaking down of the ast quantities of organic matter, mosses, sphagnum, etc., of which they are composed, a great
amount of humic acid is liberated, and this, tinding in the soil no base, such as lime or potash,
with which it may unite, forming in the process the neutral, harmless salts, as are formed in all soils under suitable conditions, is forced to re-
main in the acid form-a form in which it cannot act as a plant food, nor, if present in any appro-
ciable quantities, permit even of plant growth. Drainage may have some effect in correcting this acid condition, but its acticn is not rapid enough.
We must employ something that will produce a more immediate result, and in this instance that
something is lime. If the souring of the soil is cid and if this acid is present for the reason that no base-forming element, such as calcium, is in the soil with which it may unite to form a salt, then
the addition of this basic element-and lime is the the effect of acting chemically on the acid, changing it into the harmless form, sweetening the soil and fitting it for agricultural purposes. Such is the action of lime on peaty soils. The
effect it produces is chemical. On clays, however effect it produces is chemical. On clays, however.
its action is of a somewhat different nature, being largely physical. To understand this action clearly, it is necessary for us to know something of
soil physics. Most farreers have a more or less soil physics. Most farmers have a more or less
hazy knowledge of the physical properties of the soils they are working, but few there are who
know definitely the nature and constitution of the matcrial wose vocation. It might not, therefore, be entirely
without the subject to discuss it briefly here. Soils are graded physically, according to the and, umder this classification. fall naturally into
the three great groups-gravels, sands and clays. the three great groups-gravels, sands and clays,
Mixtures of these in difierent proportions with the regetable mould, organic matter or humus, form
the various types of loams. The distinguishing and peculiar characteristic of a clay is the ex-
treme minuteness of its soil particles. It is this tineness of grain structure, together with the pres-
ence of the sticky, adhesive kolin common to all
clavs, that renders these soils so compact in clays, that renders these soils so compact in
texture and so tenacious and stiff if cultivated
when not in prese of Texture and so tenacious and stifi if curtivate of
When not in proper condition. The purpose of
any remedy is to increase the size of the grains, 10 render them less adhesive, to increase the open
waces between them, and make the whole soil Waces between them, and make the whole soil
Whore open and porous.
Underdratnake, the plowing down of green crops, or frequent manuring, :He thse of swamp soils, the most immediate
Wint will follow the application of something
What is. liy jits very nature adapted to produce Wht is, wy follow the application of something
vature, adapted to produce
$\qquad$
ure, however. in amadl quantity of lime water,
inct the matier in suspension settles almost
inn an aliately imu chiately. The lime acts upon the minute clay into grains, getting larger and larger, until their
wright is such that the water can sustain them no longer, and they sink. The lime has induced Their adhesiveness is materially lessened. They will not pack together so closely, and the porosity
and friability of the mass becomes correspondingand friability of the mass becomes corresponding-
ly greater. Practically the same result follows The minute grains, and these, from their very nature, must
produce more pore space, a free circulation of air, produce more pore space, a free circulation of air,
greater root range, and a soil that is generally more easily cultivated and less likely to "bake," if by chance it should be worked when wet. Ordinary farm soils contain, under most condiand future needs, hence it would be an ecomomic mistake to apply it for any purpose whatever. In
the circumstances cited, however, it may be very the circumstances cited, however, it may be very profitably and advantageously employed. We have
noted some very marked results following its application to clays, while its use on sour, acid soils
invariably results in a very noticeable improvement in the quantity and quality of the crop proeluced. any other conditions ordinary in Ontario. About fifty bushels per acre is the usual dressing abplied in any convenient way and at any reasonslake Slake. It is better to aply lime often and
lightiy than to use in larger quantities at longer
intervals. intervals.
Lambton

## Berlin's Beet-sugar Factory.

$\qquad$ tunity has been afforded for careful observations of its relation to agriculture in particular, and to other inhastrial ines in general. To agriculture the industry where its benefits have once been felt. Each year the acreage under the cultivation of beets has increased, and
each succeeding year the farmers have more readily made contracts with the company, proving the incorrectness
of the impression that some persons held of the impression that some persons held at first, name-
ly, that the farmer would not grow beets.
The reason of the increased interest taken by farmers in this industry rests, in the first place, on the fact that it pays them to cultivate the beet, but in addition to this condition through the cultivation of the beet, and many hundreds of stockmen are now feeding beet pulp to their
animals, with much better results than the most sanguine anticipated.
To the beet-growers of the Berlin factory there have been distributed for the 1905 crop of beets $\$ 239,547.77$, on an exact mensured acreage under of $\$ 53.78$, based other crop in the farmer's rotation that gives such high nearly fifty per cent. greater than that of 1904 , yielded an average of 10.7 tons of net clean beets per acre, and produced a total tonnage fifty per cent. greater than in
1904 . Each year the output of sugar has increased 1904. Each year the output of sugar has increased,
reaching in $1905-6$ a quantity sixty per cent. greater raching in $1905-6$ a quantity sixty per cent. greater
than in 1902-3, and thirty-two per cent. greater than in any former year.
Few actually realize the enormous amount of business done during the short period of the factory's campaign.
This, however, may be judged of to some extent by the This, however, may be judged of to some extent by the
quantity of freight and number of carloads of beets, pulp, sugar, coal and other material conveyed to and
from the factory. Berlin received no less than 1,570


At the Berlin, Ont., Sugar-beet Factory.
season the bean planter is the best, as it leaves
riage on the

 When the beans are showing through the ground twe put the harrow on them. This kills an small weeds that may have escaped the first cul tivating, and also levels in the hollow made by
the drill. Then, in a day or two, they are ready the drill. Then, in a day or two, they are ready
for cultivating, Some use a two-horse cultiva-
tor made for the purpose, but 1 am conservative tor made for the purpose, but 1 am conservative matter of opinion. The last few years we have a matter of opinion. The last few years we have
cultivated the beans but twice, and have not found
it necessary it necessary to hoe at all, cultivating once a soon as the beans are large enough and again a as you can before they begin to blossom or cove the row. When the pods begin to get yellow or ripen, go in and pull the beans, then take a side-
delivery rake and turn them out (which will handle as much as six men can the old way with forks). When they are thoroughly dry haul them in, or, if it should be a wet season and the ground damp, they may need turning, which can be done quickly
with the side-delivery rake. As beans are apt to draw moisture, care must be taken to get them in dry, or they will spoil in the mow.
shape for fall wheat. all that the land is in good few strokes of the cultivator to loosen the soil Ce planted only ven acres this year, off which we threshed 270 bushels from the machine, but as beans weigh more than 60 pounds to the bushel
they should weigh out nearly 300 bushels, for which we have been offered $\$ 1.45$ per bushel. did not put over two weeks' work for one man on the crop after they were sown-cultivating, har-
vesting, and all combined-so tnat, under favorable circumstances, bean-growing is a fairly profitable line of farming. Hoping that others may be influenced to give their methods of bean-


## Nice Sides of Bacon.

To the Editor " The Farmer's Advocate

May I venture to write a few lines to your Valuable paper regarding bacon hogs and how I raise them ?
At present I have two white sows, one a Other Yorkshire and Berkshire cross ; also one pure hog. and my Berkshire sow to a Yorkshire hog and mate all white pigs. I have not had a crippled pig for years I never rush them in feeding. They have always paid mern out select. Now as to best price, as they all packer alone that is looking for it to add a not the his profit? Does not the consumer look for the best, nicest and sweetest, regardless of length ? Why, then,
feed the longest and largest of any breed to no profit? I wish to say a little of what any breed to no profit ting up pork into sausage, having done more than the
average farmer at this business. trouble to fill an order for a fat side, but an order for want to say that the nicest was harder to fill, and found was in a Berkshire about one year old.
is the do not mean to be understood that the Berkshir age only breed that has a nice side, as I believe the clusion I would say, that if I were feeding for my ow curing and eating, I would not try to have them fin shed in six months, but give them plenty of time to
get size without so much fat.
T. McD.

## The Bravest Battles.

## The bravest battle that ever was

 Shall I tell you where and when? 'Twas fought by the mothers of men. With not with cannon or battle shot, Way, not with or eloquent word or thoughtFrom the mouths wonderful mea But deep in the walled-up woman's heart-
Of woman that would not yield Of woman that would not yield,
But bravely, silently bore her part-

> No marshalling troop, no bivouac sor
> No banner to gleam and wave!
But, oh these battles ; they last so long.

From babyhood to the grave.
-Joaquin miller
The Weekly is the Best.
er's Adroct to think when you changed "The Farmer's Advocate" "to a weelily it would not bee so
good. but now I think it it improving all the
time. and is better than ever. imerewal enciosed.
Res. Wiching your continued sucress. T am. Yours trily,
Carleton Co., Ont. JAMES A. ROBBINOM.

## A Year's Milk and Butter Record.

Fastern and Western Ontario Dairymengh ast month, was the testing of cows by co-v .ontions ang associations. It was announced that the tive minion Minister of Agriculture, Hon. Sydney Fishwe, had

expressed his willingness to supply a Departmental man expressed his willingness to supply a Departmental man
to do the testing wherever twenty or more farmers in a
locality were willing to purchase the necessary locality were willing to purchase the mocessary fine in a
sive outit of scales, sample bottles and sive outit of scales, sample bottles and sampling dip-
per, and undertake to weigh the milk of per, and undertake to weigh the milk of each cow for a
specifled number of days each month, specifed number of days each month, and take the sama-
ples for testing. One cow-testing association had ples for testing. One cow-testing association had al-
ready been formed, at Cowansville, P. Q., as reported
in our issue of January 18th, by turning up which num in our issue of January 18th, by turning up which num-
ber our readers will gain from the by-laws an exact ber our readers will gain from the by-laws an exach
idca of the simple character of the organization. Th idea of the simple character of the organization. The
Dairy Branch of the Department of Agriculture is anx-
ious that more of these associations be Dairy Branch of the Department of Agriculture is anx-
ious that more of these associations be organized, and
is ready to assist in their formation wherever there is assist in their formation wherever there is
of a sufficient number of dairymen being inThose desirous of launching such a scheme locality may correspond with Dairy Commissione
Ruddick, Ottawa. Ont., or with Mr. C. F. Whit Experimental Farm, Ottawa. While the Dairy Commissioner deserves credit for
introducing this co-operative cow-testing movement, it was brought out at the Wostern Dairymen's conventio
that the chances of success will be greatest whore th farmers organize themselves and do not rely upon th Government employee. It was suggested that dairymen
should organize with the creamery of cheena- actory should organize with the creamery of cheese-factory dis
trict as the unit of territory, the maker doing the test ing for the patrons. This is a good plan, and should
result in a considerable enlightenment of cow owners, a weeding process, an increased milk supply, and, conse-
quently, an improved quality of milk-for it is the general experience of makers that when the patrons of
district commence to take an interest in the production of their herds they are more open to suggestions of all kinds; progress is manifested in their whole dairy work,
and they are far more likely to take first-class care of
their milk. DON'T WAIT FOR A CO-OPERATIVE TESTING association
But in cow-testing, as in other matters, we believe
he greatest success will be achieved by those who undertake the work individually. Cow-testing associa-
tions are all right for such as and tions are all right for such as will not undertake the
work otherwise. Then, too, no dairyman who really wishes to get at the truo inwardness of proflable production will be satisfied with weighing the milk of his
cows only three days a month. cows only three days a month. It should be done
every milking in the year, and an exact record kept. every milking in the year, and an exact record kept.
Why? For the sake of the lessons it teaches and the assistance it gives one in feeding. In most of the talk
about milk records about milk records, undue emphasis is laid on the op-
portunity for weeding out the poor cows. portunity for weeding out the poor cows. This op-
tainly is a most important advantage but Irom being the only one. A DAILY MILK RECORD
ENABLES THE INTELLIGENT HERDSMAN TO EABLES THE INTELLIGENT HERDSMAN TO GET
MUCH BETTER YIELDS FROM THE COWS HE ALREADY HAS. It increases his interest in the hord, of his cows he is going to take more pains, do better work and get bigger yields. In dairying, as in all phases of stock husbandry, the man is the most in-
portant factor in the equation of success. The trouble portant factor in the equation of success. The trouble
with most dairying is too much cow and too little man. The milk record pays first, then, because it stimulates the personal factor. It enables one to feed better. He can tell pretty accurately the effect of any change in feed or management; he can study the individuality of
his cows; the ration that best suits one cow will not bebest for another. There is a wider difference in the requirements of individual cows than the majortty. of
people suspect, and surprising possibilities in catering the milk record an educator. Milk records are an invaluable educator. They
teach the importance of good feeding, balanced ration teach the importance of good feeding, balanced rations,
succulence, comfortable quarters, kindness, attention regular and careful milking, and dozens of other things
that bulk quite respectably on the that bulk quite respectably on the profit-and-loss sheet.
They take dairying from the chaos of guesswork and They take dairying from the chaos of guesswork and
place it on a business basis. The keeping of individual
rectits records would pay handsomely even if one never discarded a single cow. Of course, nothing is more cer
tain than that he would find some to discard at once tain than that he would find some to discard at once.
and others which he would keep only until he had raised up heifers from the best cows to take their places. The
possibility of thus improving the average production, more intelligent care and by selection are immense, and
the satisfaction of the work is an additional the satisfaction of the work is an additional compensa-
tion. SSme claim that keeping records takes too much tion. Some claim that keeping records takes too much
time in this day of scarce labor. tine in this day of scarce labor. As a matter of fact,
the time required is compraratively little, and the hiyh
pricen of lether, so fur fom
 Whin. The dairyman who cannot aford to doy present n. lhand harder will it the old cows and the old 1 IPMRIEN: WITH THE DAILY RECORD.

## Prof. Dean Replies to Mr. Bollert.

## May I have three short whacks at that " nu

 (issue Feb. 1st) 1. It was far from my thought to reflect o have always assumed that a man is honest until is a rogue until he a rogue, rather than that he particular instance referred to wot that 2. The most unkindest cut of all is that which2. my good friend Mr. Bollert gives, when he suggests that "more brains" should have been ex
ercised in the purchase of these pedigreed cattle. I may as well plead guilty to the soft impeach ment, and can only account for it by saying tha the circumstance took place soon after the write graduated from college, when his brain had the into his head that the only other things he could see about a cow were a prominent backbone and 3. The formation of " Cow-testing Associations " in various parts of Canada, to test com-
mon cows, and the fact that the Dominion Department of Agriculture have, or shortly we
have, provided machinery whereby breeders of pur. bred dairy stock may have their cows tested offi-
cially, are two signs of the times which point to a revival among owners of dairy cows. There
are, no doubt, difficulties in the way, but Cana-
dian pluck and determination will are, no doubt, difficulties in the way, but Cana-
dian pluck and determination will overcome all
these. Nothing can stop the hall wvich huc nuw these. Nothing can stop the ball which has now
been set rolling. If seven-day tests have. huen of
the "greatest benefit" to one breocl ior a longer time ought to be breed, then tists
not only to this breed, but to all not only to this breed, but to all the breeds con ing cows will be carriod on hy all thon. .inl.
in March and April. In spite of usual care the mill
Alow was gradually falling ofr during November and to
cember, the average yield in each month being about cember, the average yleld in each month being about
lbs. per head per day less than in the preceding month
A sniall scale was obtained and hung up in the stable A sward scale was obtained and hung up in the stable, ruled sheet on which to record each cow's morning;
evening und total daily yield. This was January 1st. By the end of the month the average daily yield pe
colv had increased from a little over 12 to $13 \ddagger$ lis. day ; by the end of February it had increased neurly another pound; through the first hulf of March it held
aloout steady, as some of the cows were approaching arturition. From then on it decreased till the cows
reshened again. What was it that enalled us to arrest the shrinkage and actually increase the flow by an average of $2 \frac{1}{2}$ lhs. a day for each cow under these circum-
stances? There was no particular change of weather, Cod or conditions; very little more meal was fed, and we began to keep track of the milk yields everybody on
be farin developed a new interest in the cows. The the farin developed a new interest in the cows. The
milkers were more prompt, more regular and more care
ful in stripying ; the feeding was more regular: dratts tul in stripping: the feeding was more regular; drafts
in the stable were avoided, so far as possible : the meal
ration was varied judiciously, some cows being given more and others less than before; the dog's lilierties
mith the cows when out in the yard were curtailed, and with the cows when out in the yard were curtailed, and
in every reasonable way they were given a chance to
do their best. There was not a great deal more time spent in the stable, and what little extra the: was
nieant just so much less lounging around the house, so time spent in weighing the milk amounted to not over ten minutes a day for a herd of six cows, and figuring
up the records required one or two evenings a r.onth. The weighing was continued by the writer as long as he
was on the farm, and recontinued for a few months on his return later on, and practiced with similar results on another herd since. There was no Babcock tester
within reach, so no testing was done, and the mere milk records were not a reliable guide for weeding out the
poor cows, but the increased production per cow was poor cows, but the increased production per cow was
ample compensation for the time spent, and the experi-
ence was by far the most valualle ence was by far the most valuable gained in all the
years on the farm. The best way to raise a race of men interested in daily milk records. For our part ve would not-think' of dairying without keeping such a record. It is the chief corner stone of success in dairy frofit out of his cows can ufford not to keep a record. will pay anyone, but it will pay best the intelligent
and careful dairyman, for he will draw the most valuable conclusions from the data he gathers, and apply
How TO KEEP A RECORD.

The keeping of a milk record is exceedingly simple.
All you do is to weigh the pail of milk, deduct the weight of the pail, and mark down on a sheet tacked up
beside the scales the amount of each cow's milk. A small dipperfull (about half a fluid ounce) of milk is then
taken and placed in the sample jar, in which is a chemical preservativer made by mixing 7 parts potas-
sium bi-chromate with one part corrosive sublimate. In each bottle put about the quantity that will lie on a
ten-cent piece. In hot weather a little more might require to be added at the end of two weeks. When adding sample of milk twice daily, give the bottle a rotary
motion, and keep it closed with a turned wooden cork. The testing may be done once a month by the creamery-
man, by yourself, or some neighbor who has a Babcock A fair basis on which to compare the cows

 each cow-showing number of days milking, total pounds
nilk, average per cent. of fat, estimated pounds fat,
and total points for the month's production. At the
end of the year each cow's monthly records may be sumA word of explanation may be necessary as to the
objecte of the column, "cow's monthly score." It is 6

Yearly milk and butter-fat record fon Cow, Bessie

DAILY MILK RECORD FORM
RECORD FORM
ate. Time. Daisy. Belle. Spot. Total of herd for day. everything had been attended to properly, I should
have had to believe it; but the scale in the dairy barn is much like the tape in the stock speculation, only surer. Learn to read ts records and pening, even if you are not at the actual scene of activity. One of the most difficult things on the dairy farm is to convince your men that you know the signs *which indicate conscientious effort or 1 neg
lect on their part. I sometimes wonder if look like a fool or act like one; it certainly takes some men a long time to find out that I am
my job.--Thomas Hollis, in Jersey Bulletin.

## Milk Strainer and Milk Stool

To the Editor " The Farmer's Advocate ":
We have frequently read of a cloth strainer being preferable to metal for milk, but have never it is used. Long ago we began using a cloth for straining milk, and, as a consequence, have had
no more use for a milk pail with a strainer. For no more use for a milk pail with a strainer. For a long time, however, we failed to stratch. We
tothe best way of using this cloth strainer. We used an elastic band to go over the top of the
can and around the cloth strainer. As this would can and around the cloth strainer. As this wouly
frequently be lost or missing, we fortunately thought of common clothes pins for this purpose, and so far have found nothing better. They are neither expensive nor hard to procure, and no only easily put in place, but stay when they ar there. It goes without saying that cloth is bet sure what cloth is best, but we find nothing bet-
ter than five-cent factory cotton. One vard will ter than five-cent factory cotton. One yard wim
make four strainers. If you are using a cream separator, the cloth strainer and clothes pins will work fine, only a longer strainer and more pins
will be necessary. For those who use the shalwill be necessa not quite so handy, but I would low pans it is not quite so handy, but $I$ would
not use these any more if $I$ could possibly help it, even though I could find no other use for them ; they are hardly up-to-date.
We have in use, also, an easily made milk-
stool, which combines a seat for the miller stool, which combines a seat for the milker and
a place in which to set the pail. A board about an inch thick, 21 inches long, and 10 inches wide, two legs in front, 6 or 7 inches high, and two at
the back, one inch longer. The seat is about 3 inches or so higher than this, and about half the length of the whole, leaving room to set a pail in front. The front part of the stool is better
rounded a little, and to prevent the pail, which tips forward a little, from slipping off, a piece of a barrel hoop can be nailed around the front, and have it project up one-fourth in. or more. The side supports of the seat are a little under at the
fronit, to allow for the slant caused by the front legs being shorter than the back ones. Some of the advantages of such a milk stool are that the pail can be kept clean no matter where you milk there is less danger of the cow kicking it over or unlike the usual three-legged variety, it is not easily upset.

## "Quality and Quantity of Butter."

To the Editor "The Farmer's Arvocate": At your request, I should like to make the
following comments on the very important quesfollowing comments on the very important ques-
tion of "Quality and Quantity of Butter." We were pleased to see that this year Prof, McKay put QUALITY first, and did not lay so much emphasis on "Quantity" as was done last year, whereby some of our buttermakers got into the up the hill of difficulty. The buttermaker who tries to waterlog his butter is treading on dangerous ground. But, after all, it is not an easy of water, and at the same time make a good quality of butter.
A brief account of an experiment made by our
dairy class on Jan. 30th, 1906, under the superdairy class on Jan. $30 \mathrm{ch}, 1906$, under the superlight on this question. A lot of cream was divided into three equal parts by weight, and sible. No. 1 was treated in the usual way poscontained 13.98 per cent. moisture. No. 2 was washed with the rollers in motion, and con-
tained 14.11 per cent. moisture. No. 3 was tained 14.11 per cent. moisture. No. 3 was
washed and salted with brine, and contained 15.83 per cent. moisture. The yields of butter
were $62 \frac{3}{3}$ pounds, $62 \frac{1}{\frac{1}{2}}$ pounds, and $62 \frac{9}{4}$ pounds, respectively, from the three lots. On Friday, Feb. 2nd, samples from lots 2 and 3 were scored how or when made. Nearly all were agreed that "o. 2 was inferior butter, especially in being case of No. 2 method, washing with results in this ion, agree with results obtained during last summer and in December, 1905. There was no increase in the quantity or moisture of the butter, mental error. It would seem to results of experideal of "guff" has been said or written on thid
subject , am reminded of an old sentleman Whose warly, education had been neglected, bu Who was a faithful attendant at the Sunday
School. On one occasion, when reading a wellknown passage, he read as follows a. 'They strail
mill.
Seriously, I should consider it a rreat mis take if Canadian buttermakers were to get the eputation of making "waterlogged" butter, as especially not in British markets, any market, and say that it will not keep, neither will it "s stand ap " well on the counter. One of the chief faults with Irish butter is that it tends to contain too much water, so English dealers say. Good but and it is never advisable for a buttermaker to exceed 15 to $15 \frac{1}{3}$ per cent, as a buttermaker to danger line ( 16 per cent.), and he has no means in his butter, heance it is better to err on the safe side and keep out of the clutches of the law. It is no doubt a fact that much Canadian butter is too dry, especially in winter. .The wise plan is
should not be lost sight of. The water of butter is nearly all added or extraneous water, and in many cases it comes from wells, the purity of
which may at least be questioned; hence of such water there may be in butter, the greater the danger of bad flavors, due to germs found in impure water, which would multiply in butter reason, some advise the pasteurization or filtra tion of all water used in washing butter. No doubt, in many creameries this would pay. M in this question. "Be sure you are right, and then go ahead," is very good advice for a man in almost every line of business, and may well be Ontario Agriculfural Coration by creamerymen.

## GARDEN 觡 ORCHARD.

## The Hotbed.

Now that March-hotbed-making time-is aptables may think about bestirring the carly vegethe matter
making of the simple as a hotbed is, after all, an affair so which it co for or the mivings with a successful halby regarded. This writer made most sheltered place an the bed marked out and excevated was chosen, four feet. A post was set in to a depth ol and the framework about made of $1 \times 10$-inch boards, one board being placed at the front and towards the south. Fresh the necessary slope tramped, then drenched with water, was put in to a depth of three feet, and the frame closed up. After two days, the soll for making the bed was added. Soil for hotbeds, by the way, should be if possible. Manure with a little sand mixed in, possible. Manure from old hotbeds, mixed oil, when in tho-thirds loam, is excellent. The eight inches in depth. To keep the bed warm, a second wall was eet back, and the intervening space filled up with clay and manure. The best covering for the glass frames, pit on at night and during cold weather, was found to be a light mattress, made cotton, and filled with straw, with a covering however, with a covering of boards, has been found to answer the purpose very well. After the soil has purpose very well left until it has warmed through and theuld be seeds have germinated, then the surface should Afterwards, but ordinary care in watering, and
ventilating by raising the sand entilating by raising the sashes somewhat dur ing t.
Green, in Vegetable Gardening, says clear
horse manure heats too violently, andl wiluss the

## POULTRY

## The Poultry Industry of Canada.

Canada secures from the poultry-yard a yearl return equal to $\$ 14.13$ per family, the eggs yiel sold for export a value of $\$ 1.28$, and the sum active represents the value of hens and chickens in respect is again Prince Edward Island, with a
total of $\$ 20.69$ per family, closely followed by total of $\$ 20.69$ per family, closely followed by Manitoba with $\$ 17.74$, and by Ontario with but $\$ 8.39$; the Province of Quebec has $\$ 9.84$ While Ontario's hens lay an average of 93 egigs Island's and Manitoba's 83, and Prince Edward 1sland's 85, and Quebec's 91, and New Brunsyear. If everybody goes into chicken-raising and egg-production, where will we all get a market? HOME MARKET
000 ,
000,000 dozens, our Canadian consumption wus last year not fully supplied; in 1902 we exported
$\mathbf{1 2 , 0 0 0 , 0 0 0}$ dozens, and had, say, $72,000,000$ dozens for home consumption. Way, We needed quite a number to put under the hens and into incubators,
but we had probably tion of had probably an annual home consumpallowance for addled eggs) per head of the (making tion. That looks large, but it is not one egg in two days for each person; and then, consider how cooking, in confectionery shops, bakeries and other businesses, and in arts and sciences.
The British Isles imported last vear 198,500,380 dozens, Russia sending $68,000.000$, Denmark $38,000,000$, Germany $31,000,000$. Belciumı 23,
000,000 , France $16,000,000$, and Canada 7 , 000 dozens. We sent fewer dozens last year than in the preceding year, though here again 1 note a compensation: While the average price of the
$199,500,000$ dozens was $161-5$ cents per (lozen, Canada's eggs had a value of 19 cents. We are
heing beaten by the Russian hens, which are contributing more and more to the wants of the
British consumer. Shall wo lot the British consumer. Shall we let the Russian hen
continue to carry off one-third of this enormous business, valued at $\$ 32.000 .000$ or $\$ 33.000 .000$
yearly? While we send but title yearly? While we send but little more then one-
twenty-eighth. Russians send one dozen in three. Canada one dozen in every twenty-eight!
Perish the thought as to where we just mentioned will give a fair idea aim should not be neglected in improving the poultry as efg producers. It has been a grand
encouragement to poultry-raisers to lrok over high prices in the year just past-1905.: It bids well
for those who take some producing an ega-laying strain. There will be a eggs for export or home consumption. to supply
glad of the idpa few years -that of giving their feathered pets betfarmers had the opinion that a score of vears ago lay and return them a profit, whether they were buildings, as many have now, they of comfortable to roost in tree-tops, on fences, or in open shed
lofts, where the fowls suffered in all stages of diseases, and still had to scratch their living
around the field or yards.
But as the old people passed a way and their children have taken thei degree that the noultry-yard of their farms, with hrofit for time and money expinded, and a fair have also found out that if the Canadian hen was
cast to dreams there would be a falling off in the nation's revenue. Farmers are buiding neat and coultry, and are approving of the poultry in- in-
lustry. Compare the poultry industry with the larger tercentage of perofit for time and money

THE FARM BULLETIN.

Brunswick Farmers' and Dairymen's Association, hem Fredericton, January 23rd and 24 th, the following at River : Vice-President, F'. E. Sharp, Midland; Rec... Secretary, Bliss M. Fawcett, Upper Sackville; Corre
ponding Secretary, Thos. A. Peters sponding Secretary. Thos. A. F
Ireasurer, Harvey Mitchell, Sussex
At a meeting of the Niagara Falls Hunt Clu
the game laws of Ontario, to provide for amendmen hunting license fee for non-residents from $\$ 25$ to $\$ 100$ nd enacting such laws as will prevent the exportatio game from the Province. Farmers who have been fall to shoot in sport the birds and animals that en

Dominion Ca Annual Meeting
Crs' Association was held in Doronto Feb. Sth BreedPresident, A. W. Smith, Maple Lodge, Ont.., in the chair.
The report of the Fxecutive at the Provincial auction sales, held under the auspices of the Association, 61 animals sold at Guelph for an average of $\$ 74.77 ; 33$ at Ottawa for an average of
$\$ 78.26 ; 14$ at Port Perry for an average of $\$ 79.65$ and 5 at Campbellcroft for an average of $\$ 57$. At the Ontario Winter Fair, Guelph, 1905, the numThe total amount of prizes awarded in 1904 was $\$ 8,188.50$, and in 1905, $\$ 8,961.20$. The gate receipts The financial statement showed a balance on hand In a discussion regarding the prize-list for the dairy lest at the Winter Fair, considerable difference of opinbut owing to the educational character of the winter Fair generally the consensus of opinion was that this were read asking continued, and letters from breeders tion was also carried that the Canadian National Extests. A letter from the Dominion Minister of Asting rebred cows, and the of an advanced registry for tide an inspector to the promise of the Minister to proThe following Officers and Directo
1906 President, A. W. Smith, Maple tary-Treasurer, A. P. Westervelt. Todford Park; Secre ice-Presidents-Ontario, Arthur JJohnston, Greenwood
Alberta, C. W. Peterson, Calcary . Rrition Cond
 Provinces, Prof. Cumming, Truro N. S S Dimaritime bread societies-Shorthorns, Jno. Isaac N. Directors for Hereford Association; Galloways, Col. Decutio of Guelph; R. Shaw, Firantford: Aberdeen-Angus, J. W. W
Burt, Conngsby ; Alex. Kinnon. Ays. lantyne, Stratiord: Holsteins, K. S. Stevenson, W. Bal ter: G. W. Clemons, St. Gierge: Jerseys. Ieft to Ex
ecutive of Jersey Cattle Club ; General Director, Chas Calder, M. P. P., Brooklin ; Ontario Agricultural Col
ege, Prof. Smith, Col. McGillivray. National Record Board-A. W.

Shire Horsemen Congregate
ciety took place in the Repository, corner Nelson an and spring show week. The Secretary reported a much
mproved financial condition ion, the members deciding the part of the associahlethora by a grant of $\$ \$ 0$ to the Clieve the financial
and an equal sum to the Clydesdan National stallion show sum to the Clydesdale and Shire syring others expressed their belief that the English dratt and horso
was surpassed of a Shire gelding in Toronto recently, at a of the sal
over $\$ 300$ welt perience with the Shires stated that from practical exbreeds for cartace purposes. The clection most draft followed, and provoked a little controversy of officers
attempt was made to place a couple of Western men on
the list, one individul provincial one individual holding that and the shocienty men on dents, a view not held by any of the other members, as
the cllections showed of the zold nectaved. Appriciative mention was mated my the English Cart Hone
Suciety to the Then
$\qquad$ adves frathering it fresh into a pile, and when tivities of the Agricultural Deppartment of the new ach it has won nicely started to heat, turning the mle ernment of Saskatchewan, is in the direction of of the heap, and breaking up all lump, In a charge, so that no farmer need use chemical of doubtul
Iew days it will slart to heat again, and may quality in treating his seed. The work will be in charge
then go apt, the frames.

FEMTIUARY 15, 1906
Howick : New Brunswick,
scotin. Prof. Cumming,
Winnipeg, Man.; Alberta,
Frank Hassard, Charlottetown. Directors-Josep gety, London ; James Henderson, Belton; W.
lington, Toronto ; John Gardhouse, Highfield Eckford, High River, Alloa, Unam Wilkie, Colone1 J. A. And associations-Industrial Exhibition, John Gard
fairs and and James Dalgety, Western Fair, H. Wade an
house and E. C. Attrill; Central Exhibition, Ottawa, F. M. Wad
and Campell Smith; Horse-breeders' Association
Ind James M. Gardhouse and James Dalgety ; Registrar, F
M. Wade, Ottawa, Ont.; Secretary-Treasurer, Henry

## Holsteĭn-Friesian Breeders Meet.

## Associatio

## bth, was attended by a very large, enthusiastic and in elligent gathering of breeders from the provinces

telligent gathering of breeders from the provinces o
Ontario, Quehec, New Brunswick, Nova Scotia and Al
Ontario, Quehec, New Brunswick, Nova Scotia and Al
berta. The President, Mr. Matt. Richardson, Cale
donia, Ont., in an able address, congratulated the mem bers of the Association on the unprecedented success of
the past year in sales of stock, in dairy production, and
in profitable prices.
The report of Secretary-Treasurer G. W. Clemons, and of the Executive Committee, read
by the Assistant Secretary and Registrar, Miss Clemons, by the Assistant Secretary and Registrar, Miss Clemons,
showed that 1905 had been the banner year in the his
tory tory of the Association, there having been a gain of
registrations over the prevous year of 943 cows and
c90 bulls, or a total of 1.633 . Transfer certiflcates had ben issured to the number of 1,302 during the year
During the year, 58 records of cows were accepted During the year, 58 records of cows were accepted for
the Record of Merit, 42 being first tests, and 17 for ad-
ditional tests. Three bulls had been entered on records d four or more daughters, and 59 new members had
een received during the year. been received during the year. The Treasurer's repor
howed receipts from all sources of $\$ 4.62923$ including a balance from the previous year, and a balance on
hand on Feb. 3rd of $\$ 2,450$. hand on Feb. 3rd of $\$ 2,450$.
oted to the Secretary in consideration of the prepara. venient index of every animal in the whole eight volumes published is now available. On motion, it was re-
solved to continue the payment of the fivedollar fee to solved to continue the payment of the fivedollar fee to
owners of cows submitted for test and qualifining for the Record of Merit.
Grants to
Grants to leading exhribitions as special prizes for
Holstein cattle were donated to the amount of $\$ 800$ distributed ns follows: Toronto Industrial, $\$ 100$; Do
minion Exhibition, Halifax, $\$ 100$; Winter Fair, Guelph,
$\$ 100 ;$ Ottawa Winter Fair, $\$ 100$; Sherbrooke, Que. $\$ 100$; Winnipeg Industrial, $\$ 50$; Western Fair, London, $\$ 50$; Canada Central, Ottawa, $\$ 50$; New Wectminster,
B. C., $\$ 5$; Amherst. N, $\$$.. Winter Fair, $\$ 50$; Char-
lotietown, P. E. I., $\$ 25$; Calgary, Alta., $\$ 25$. The election of Officers for the current year resulted
follows: Pr.sident. R. S. Stevenson, Ancaster 1st Vice-President, A. C. Hallman, Breslau; 2nd Vice
President, G. A. Gilroy, Glen Buell ; 3rd Vice-President,
D. Mallory, Frankford; 4th Vice-1resident, H. Bollert. Cassel : Sectetary-Treasurer, G. W. Clemons, St. George,
Ont. Di. ectors-James Rettie, Norwich : Stanley Lo-
fan, Amherst, N. S.; E. K. Herrick, Abbotsford, Que.
 hoands-Toronto, W. G. Ellis, W. Shunk : London, H
Bollert, G. W. Clemons ; Ottawa, W. W. Brown, G. A Airoy: Winnipeg, A. B. Potter, D. Munroe; Calgary,
A. Slackwood; Sherbrooke, F. E. Came, E. K.
Herrick; Halifax and Charlottetown, S. Logan, W. M. .ee : New Westminster, J. W. Steves, T. J. Laing.
On motion, the Executive was authorized to nomi-
ante judges for the leading exhibitions, and also to nate judges for the leading exhibitions, and also to
arepare a list of qualified judges, from which local fair
loards may make selections. A suggestion hy members from Quebec and the
Maritime Piovinces. for the appointment of a vice-
fresident for each Province, authorized to ormaize provincial association for the furtherance of the in-
lerests of the breed, was freely discussed, and was re-
ferred to the Fexecutive him from the Dominion Minister of Agriculture, pre-
sented Dy B. Spencer, Assistant Live-stock Commis-
ioner, relative to the surpervision ty and 0

The Ontario Winter Fair Association Annual Meeting.


THE FARMER'S ADVOCATE

Canadian Hackney Association Ammal Meeting.


## Dominion Swine Breeders' Association

 Annual Meetingin The Dominion Swine breeders' Association was held President, Mr. Thos. Teasdale, Concord, Ont., in open-
ing the meeting, referred to the scarcity of hogs, the good prices prevailing and in prospect, and advised meet the demand for a good type of hog. The report of the Executive showed a prosper
balance on hand being over $\$ 2,500$

$$
\text { OFFICERS ELECTED FOR } 1908 .
$$

President, R. H. Harding, Thorndale ; Vice-President,
C. Flatt, Millgrove ; Genpral C. Flatt, Millgrove; Gengral Director, Thos. Teas E. Brethour, Burford; D. DeCourcey, Bornholm: Wm. Jones, Zenda ; W. M. Smith, Scotland; J. C. Smith, Trintonburg: Jos. Featherston, Streetsville. SecretaryOntario Agricultural College, Prof. G. E. Day, Guelph Delegates to Fair Boards-National Exhibition, Toronto D. C. Flatt, Millgrove, and S. Dolson, Alloa; Canada Central, Octawa, P. O. Collins, Jr., and R. Clark Western Fair, London, D. DeCourcey and Geo. Green ;
Winter Fair, Guelph, G. B. Hood and Wm. Jones 2 Win-

The Dominion Shorthorm Association Annual Meeting.
beeders' Association, held in Toronto Feb Bhorthorn tracted a large attendance, members being present from
the Provinces of Ontario, Quebec, Manitoba, SaskatchWan and Alberta. The President, W. G. Pettit, Free-
man, Ont., in his opening address congratulated members on the very prosperous condition of the asso-
ciation, and the very considerable saving of expense in the administration of its affairs under the new system
of National Records. The annual report of the ser tary, Registrar and Executive Committee, read by Mr Henry Wade, Secretary, referred to the prevailing prosperity of Canadian farmers generally, and of Shorthorn
breeders in particular. The prospect for trade with foreign countries, in the way of sales of Shorthorn cat-
tle, are encouraging, satisfactory sales having during the past year to buyers from Japan, as well as the United State
The financial statement showed receipts for the past
year from all sources, in round numbers, $\$ 20,779$, in-
cluding a balance from the former year $\$ 3,83$, ctuctug a balance from the former year of $\$ 3,884$; and
dishursements. $\$ 16,945$, leaving a balance on hand of
$\$ \$, 687$, an increase of $\$ 4,853$. The total memberhip $\$ \$, 687$, an increase of $\$ 4,853$. The total membership
is now 2,538 , an increase for the past year of 533 . In 1005 the society was paid for 11,763 registrations, and
2,859 transfers and duplicate certificates, as against, in 1904, 9,648 registrations, and 3,735 changes of owner
ship. Volume 23 of the herdbook, recently published, 1,770 over Vol. 22 .
The grants made last year to exhibitions
various Provinces, as prizes for Shorthorns, amounted to $\$ 3,250$. The amount granted, provisionally, to ex-
hibitions this year is $\$ 4,800$, an increase of $\$ 1,550$, dishibitions this year is $\$ 4,800$, an increase of $\$ 1,550$, dis-
tributed as follows: Toronto, $\$ 2,000$; Winnipeg, $\$ 750$; Calgary, $\$ 100$; Regina, $\$ 300$; New Westminster, $\$ 100$;
Halifax, $\$ 100 ;$ Quebec, $\$ 200 ;$ St. John, $\$ 100$; Charlottetown, $\$ 100$; Winter Fair, Guelph, $\$ 500$; Winter It was also resolved to duplicate all frst prizes won
at the International Show, Chicago, by Canadian exhibitors with Canadian-bred Shorthorns in the pure-bred
classes, or with steers sired by pure-bred Shorthorn bulls. A motion to accept for registration in the Do-
minion Shorthorn Herdbook, pedigrees of cattle with minion Shorthorn Herdbook, pedigrese of cattle with
ancestry recorded in the English Herdbook up to Vol. OFFICERS ELECTED FOR 1906. President, W. G. Pettit, Freeman; 1st Vice-Pres dent Robsoon, Ilderton: Secretary-Treasurer, Henry Wade Robson, Iderton: Secretary-Treasurer, Henry Wade,
Toronto. Directors-(C List), W. D. Cargill, Cargill
S. Dyment, Barrie : John Isaac, Markham : A. G. Hop-

Talbot, M.P., Lacombe, Alta.; J. T, Gibson, Dinfold; H. Smith, Exeter ; John Davidson, Ashburn; John Gard house, Highfield; (A List), J. G. Barron, Carberry,
Man.; F. W. Brown, Portage la Prairie, Man.; James Man.; F. W. Brown, Portage ${ }^{\text {M. Gardhouse, Weston ; E. C. Attrill, Goderich, Thos }}$ M. Gardhouse, Weston, E. Cole Dominion Cattle-breed ers' Association, Johin Isaac, Markham, Ont., and T. E Robson, Ilderton, Ont.; Toronto Indusirlar
W. G. Pettit, Freeman, and Robert Miller, Stoufiville Western Fair, James Crearer, Shakespeare, and C. M Simmons, Ivan, Ont.; Central Canada Fair, Ottawa Norman Wilson, M.P., Cumberland, and D. McLaren
Dunmore, Ont.; Provincial Exhibition, Halifax, N. S., F Dunmore, Ont.; Provincial Exhibition, Hathax, St. Taw
L. Fuller, Truro, N.S., and F. W. Thothpson, St L. Fuller, Truro, N.S., and rence, N.S.; Provincial Exhibition, New Brunswick, Sent ator Josiah Wood, Sackivile, N.B., and Bliss Fawcett Sackville, N.B.; Provincial Exhibition, Prince Edward Islann Richards, Biddeford: Winnipeg Industrial Ex hibition, Dr. A. G. Hopleins, winnipeg, and J. G. Wash ington, Ninga, Man.; Calgary Exhibition, R. K. Bennett Calgary, Alta. ; C. W. Peterson, Calgary, Klta.
Rrandon, Man. Brandon, Man., Cxhbers, Hayfield, Man.; Regina, Assa. Man., and Wm. Chaimers, Hayela, Man., Assa., and Pau Brett, Regina;, Assa.; New Weetminster Exhhbition,
W. Patterson, Ladner, B.C., and W. H. Ladner, Ladne W. Patterson, Ladner, Bicion, ${ }_{\text {B. }}$. V. Pemberton, Victoria B.C.; Sherbrooke, Que., Exhibition, H. J. Elliott, Dan ville, Que., and H. W. Burton, Huntingville, Que.; Mari Nappan, N.S. and C. A. Archibald, Truro, N. S. THenry Serretary-Treasurer, Toronto, Ont.; H. Gerald

## Ayrshire Breeders' Annual Meeting

 The general annual meeting of the Canadian Ayrehire Breeders Association, hrom the Provinces of On mario Preaident, Mr Alex Hume Menie, Ontario, on opening the meeting delivered an oxcellent eddress, in which he congratulated the mamber on the improved demand at advancing prices, and the general success of the breed in milking tests, and of the society, as evidenced by the fact that a larger number pedigrees have been registered during the past year ciation, there being 2,036 pedigrees recorded and 686 report of the Registrar, Mr. J. W. Nimmo, A committee of the directorate, appointed for the purpose, waited upon Hon. Nelson Monteith, Ontarlo Minister of Agriculture, with a request that a more representative class of Ayrshires be secured for the Agri-
cultural College Farm at Guelph. The Minister ac knowledged the justness of the complaint as to the claw of Ayrshires at that tnstitution, and intimated that this regard bo Mr. J. G. Clark, Chairman, presented the report of thr Advanced Registry Committee, and read a memoranHon. Mr. Fisher, intimating his Minister of Agriculture, and pay an inspector for one year to supervieprovig tests of cows for milk and butter-fat production, and expressing his wish that the breed socisties decide at of animals for advens upon the qualifications required sary arrangements will be made by the Den the neces carrying out these plans. A committee, consisting o
Messrs. to make the necessary arrangements on was appointed association. Clark, Ottawa, Messrs. R. Ness, Howick, and J. G. association on the National Receresentatives of the was adopted, asking the Dominion Minister of Agriculture for a grant of $\$ 1,000$ towards the salary of an
accountant for the National Record Assciation recommendation of the Executive, that the services of Mr. Henry Wade be retained as Honorary Secretary and consulting Registrar, at an annuity of $\$ 200$, and tha
he be made a life member of the association he be made a life
adopted unanimously.

ELECTION OF OFFICERS
The following were, by ballot, elected directors of Hume, Menio, Ont.; W. W. Wehee, Norwich, Ont.; Alex. J. G. Clark, Ottawa; Alf. Kains, Byron, Ont.'; Wm The Board of Directors met and appointed the folIowing offcers for the current year: President, Robert tawa: Sec.-Treas., W. F. Stephen, Trout River, Ot-Vice-Presidents for Provinces-Ontario, Alex, Brinston's Corners; Quebec, R. Ness, Howick; Mani-
toha, Dr. S. J. Thompson, St. Jomes Sast J. C. P'ope, Regina: British Columbia, A. C. Wells. Sardis: New Brunswick, H. M. Parlee, Sussex; Nove Scotia, Fred S. Black, Amherst ; Prince Edward Island, Jas. Easton, Charlottetown National recommended for leading exhibitions Trout River ; reserve, Geo. McCormack, Rockton. West, ern Fair, London, John McKee, Norwich; reserve, Goo.
McCormack, Rockton.
Central
Canada, Ottawa,
The annual meeting of the Canadian Horse-broeders' ruthers, Whitby ; Assistant Steward W. E. 9th, Dr. An was held in the Repository, Toronto, Feb. Freeman; Gatekoeper, J. Todd. Gillord. A. Peee Mr. H. Wade Toronts in the chair. The Secretary. showed a prosperous condition of the society, when being a cash balance on hand of $\$ 5,536$. On motion, Show, was granted as prizes at the Canadian Horse Spring Clydeq and Shire Show being left to the Execu-
The election of officers for 1906 resulted as follows President, Thomas A. Graham, Claremont ; First Vice President, O. B. Shepherd, Toronto ; Second Vice-Presi-
dent, Wm. Hendrie, Jr., Hamilton : Secretary-Treasure Henry Wade, Toronto Directors, representing bre 'societies: Hackney, Thos. A. Graham, Claremont, an el MCBride and G. W. Pepper, Toronto ; Shires, J. M Clydesdales, Wm. Smith (Columbus), John Bright (My te), and Thos. A Graham (Claremont) ; harness, hunte and saddle, J. J. Dixon and O. B. Shepherd, Toronto oughbred, D. A. Smith Toronto : Open-air Torto' Tho
Dominion Sheep-breeders' Association The annual meeting of the Dominion Sheep-breeders more largely attended than any previous annual meeting in the history of the association. This circumstance is doubtless due to the great demand prevailing for breed
ing sheep, in response to the high prices being paid for wool and mutton, as remarked by the President, Mr M. Gardhouse, of Woston, Ont., in his opening addross The splendid success of Canadian sheep-breeders in prize
winning at the International Exposition at Chicago was winning at the International Exposition at Chicago was
also referred to as indicative of the high-class characte also referred to as indicative of the high-class characte
of Canadian flocks. The representatives of this society and of the National Record Board, appointed to inter view American Record Associations, with a view to
eflecting amfliation of Canadian and American rocords, ecting affliation of Canadian and American records,
eported encouraging prospects of progress in that direction, the proposal being that all pedigre ss of sheep registered in American records shall go automatically in
OFFICERS ELECTED
The following are the offcers elected for 190 ohn Campbell, Wo Gardhouse, Weston ; Vice-Preside Westervelt, Toronto. Directors-For Cotswolds heCrae, Guelph ; Leicesters, A. Whitelaw, Guelph Jackson, Abingdon ; Shropshires, W. A. Dryden, Brook lin : Hampshires and Suffolks, Geo. L. Telfer, Paris Oxfords, T. R. Arkell, Arkell; Dorsets, Col. J. A. Mc Gillivray, Bedford Park; Ontario Agricultural College,
Prof. G. E. Day, Guelph; General Director, R. H. Hardtrg, Thorndale. Representatives to National
Board, Col. McGillilvay and J. M. Gardhouse.
Annual Meeting of Dominion Grange.

$$
\begin{aligned}
& \text { The annual meeting of the Dominion Grange opened } \\
& \text { n Victoria Hall, Toronto, on Wednesday, February Tith }
\end{aligned}
$$ in Victoria Hall, Toronto, on Wednesday, February 7 th.

Chairman Killam, of the Railway Commission, had notified the Grange, with reference to the resolution passed
at last meeting, to have the speed of trains limited while passing unprotected crossings in villages, towns and cities, and to regulate shuntings at important cross-
ings, that the Commission hoped to take this matter ings, that the Commission hoped to take
up in the near future.
The resolutions included the following:
Abolition of the Senate.
of farm buildings from taxation.
That no action be taken on the subject of exomption against mu
be made u
amendment to pr
tion in such cases
tion in such cases.
That the Government be asked to re cind the leris lation of last session regarding salaries, pensions and itt-
demnities. increasing expenditure ly the Fominion Government ; r.i.
puesting that any changes to be made in the customs tarif be in the direction of lowering rather than in-
creasing it; disapproving the system of bounties and absidies; asking that the rallways we not allowad to
discriminate in favor of or against any passengers car-
ried in Canadian territory : recommendiny that express rates be placed under control of the Railway Commis-
sion; requesting the Ontario Giovernment to make furher efforts to secure a larger proportion of agricultural
mmigrants for Ontario, and asking the (iovernment to pass such legislation as will effectually protect the pub
lic from the automobile nuisance. A recommendation was adoptud: "That the (iov
ernment be urged to pass at the coming session a bill ernment be urged to pass at the coming session a bill
to tax railways on the same basis ns ot her property
85 per cent. of taxns collected from all railways to go o the municipalities, and 15 per cent. to the Govern-
oent ; that the Irovincial Government should retain full ant; that the Provincial Government should retain
ight to control rates to be charged by electrical power
ompanies to the advantage of the public rather than ight to control rates to he charger
ompanies to the advantage of the
o the undue advantage of the few. Annual Meeting Associatio the largest and most enthusiasticmbers, and "as one of
of the society as and high prices prevailing for heavy-draft horses,
which fact the retiring President, Mr. Wm. Suth, dress at the opening of the meeting. in whin able ad elved the history of the Canadian spring show
Clydesdale and Shire horses from jits smat its present high standinges Mr. Sne its small beginning
ride to the signal success ite referred with "xhibitors at the International shows at Chicago, grace fully ascribing praise to the splondid enterprise of the
tirm in Graham Bros. as leaders in upholding the Cana-
dian standard at A motion was adopted, leaving to the directors the
appropriation of the men y grants from the society th Wadiny. exhibitions to be offered as prizes for Clydes-
dales.
 Myrtle : Secretary-Treasurw, Henry Wade, Toronto;
Irmostrar, I. M. Wade, Ottawa. Vice-Presillents for the




The Fourth Annual Canadian Clydes dale and Shire Show.
fourth annual Canadian Clydesdale and and Shire Show en Rourth annual Canadian Clydesdale and Shire Shww, held
in the Repository, Toronto, February 7th, 8th and tht Favored with ideal weather, patronized by large nind enthusiastic crowds, with an entry far in excess well be proud, a class that for size, conformation, action and quality could hold their own with th any like exhibition in the world. The judges ohn Bright, of Myrtle, and Mr. Robert Beith, of Now Park, with Peter Christie, M. P., of Manchaster. referee. That their work was well done, was
by the almost entire absence of dissatisfaction. CLYDESDALES.-The first class called was stallions, foaled previous to January 1st, 1302, of which
nine lined up, and a more even lot has seldom, if ever,
been seen together in a Toronto been seen together in a Toronto show-ring, confifming our oft-repeated remark, that the quality of recent im former years. It took the judges considerable time decide on the rillbon bearers in this class, as severiul them were very even in the more prominent Clydesdale
characteristics. The first-prize horse characteristics. The first-prize horse was found in Smi
$\mathbb{A}$ Richardson's newly imported Olympus, by the Aon of Baron's Pride, Up-tu-time, a horse of of great scule
son with model underpinning. A very close second was Ness \& Sons' model Clydesdale, The Rejected, a horse that has carried the red and blue out of many a show-ring.
Third went to 0 . Sorby's grand quality horse Prince London, a horse that, did, he carry a little more weight and feather, would be very hard to turn under. Fourth
was found in T. H. Hassard's Breadalbane, a worthy son of Hiawatha, a horse possessing a vast amount of
sulstance and quality, and a strong favorite with sulstance and quality, and a strong favorite with many
of the onlookers. Fifth went to Wm. Duncan's Priug Orla, a horse that required considerable looking over tor
fault. Seldom are judges called problem than this class presented, and that a harder
sion gave general satisfnction was plaintly The next class in order wass stallions foaled in 1.902 of which there were 11 entries, which for size, style,
tuality and action galore was here in abundance, and
the judges had their work cut out for the judges had their work cut out for them from the
drop of the hat. Here the premier aristocrat was found
in Smith \& Pinland Irop of the hat. Here the premier aristocrat was found
in Smith \& Richardson's lately landed horse, Mascot, a
worthy son of Baron's Pride. Second was found in (iraham \& Renfrew's wonderfully well-put-up colt, in
cruit. a horse that in motion instinctively draws all eyes
in in his direction; third went to Smith \& Richardson, on
that big. quality colt. Prince Cairnbrogie former H. Hassard's Pearl Finder, a horse of great scale and
quality ; fifth to James Henderson's Minmore a stylich huality; fifth to Jaines Henderson's Minmore, a stylish, natty-going horse, that had many admirers. Another
horse in this class that commanded a great deal of ad-
miration horse in this class that commanded a great deal of ad-
miration was T. Mercer's Knight of Glamis, that, un-
fortuhntely hapenad with hortuhately, happened with a slight accident that caused very himh honors.
Stallions foaled in 1903 were next in order. In this class 14 came out, an excerptionally even, well-balanced (iraham \& Renfrew's Cellic liad was finally derorated with the red. a decision that met with the general ap-
proval: serond went to ('has. Benneth's Moncrieffe Par ©net, a colt showing a heap of quality : third to Smith \& Richardson's Buron Richardson, a coit that had many
filhruary 15, 1906.
 Shires.-Shire stallions

 ideal Shire A very close second was J.
Sons ' Coleshill Reyal llbert, a horse of Sulsh substance but a hittle more, qualily to Rowland Keevil's Medbourne Heirloom, a larre, Gent kind of horse that many preferred to either of the
others.
Fourth went to J.
B. Hogate's Abert's Model, a horse that could act rings around the others, as what
horse could not with ."Scotty" on the rein ?
Stallions foaled in 1903 were only two, but what was lacking in numbers was more than , made up in
quality: J. M. Gardhouse's Nateby king was placed first ; he is an exceedingly sweet-topped horse, has ideal
Shire underpinning, and acts grandly.
J. B. Hogate's 1 a right good Stallions foaled in 1904 had only one entry, Thos. Irvings whitehall Trince.
For the Shire championship, J. M. Cardhouse' Nateby King and O. Sorry's Bramhope Black khorn were
pitted against each other, the red, white and tlue being finally pinned on Sorby's Bramhope Blackthorn. Stallion colts, either imported or Canadian-bred
Clydesdales, or Canadian-lved Elydesdales or Shires,
 class
Richardson's What Care I was placed second. big quality mare owned by C. R. Bennett, Baron's Lily; second to Chiming Bell, also the property of c.
Bennett ; third to Smith \& Richardson's Madge of Hall croft, and fourth to T. H. Hassard's Miss Gilmour, a imported.
The class for Clydesdale marres imported, those trac
 "as not only a strong one, but was made up of
lass of mares the like of mhich has seldom been seen
tosether in this country.
They were a very even lot and kept the pooplle evissing a here the ribbons would
go. Jas. Richardson's Fraprance, a model of the breed. mported by Prouse \& Innis, was placed first. A.
formley's Queen of Maple Grove was placed second.
 koag \& Son's Imp. Rockhall Rusie.
 fries. Smith \& Richari:son's Baroness was an easy
first,
and afterwards won the championship as best
 In the class for Canadian-lred Clydesdale or Shire
mares, foaled on or suls senuent to Jan. 1 mares, \& Son captured first on Jessie Macarie. second Richard Giisson on Belvoir Duchess, and fourth to Smith Shire mares foaled previous to Jan. 1st, 1903
This class brought out two, J. M. Gardhouse's Black






## Maritime Auction Sale



EE FARMER'S ADVOCATE
of our breeders, and that is run at a loss-though there
re very few experiments worked out-is, to say the
east of it, of a. very questionable beneit to the Prov-

## Nova Scotia Farmers' Convention.

The Nova Scotha Farmers' Association met in their annual convention at Truro, an Monday evening, Janu-
ary 29th, President. Hugh Frazer in the chair. The President, in his opening address, referred to the general
progress of the vear, and the fact that wo had generally progress of the year, and the fact that we had gearand
good crops, and prices are now high for almost all kinds of farm products. He also referred to the work of the Agricultural College, and to the Institute work being done throughout the Province, and concluced with a strong admonition for the farmers of Nova scotio
make an extra effort to produce more, so that we wold supply and hold our home market for tarm products. Prof. Frank T. Shutt, of Ottawa, addressed the convention on "Economic Maintenance of Soil Fertility,: speaking of the mineral constituents of the soll, of the organic elements which it is our especial duty to preserve and increase, Ho gave some very excollent hints about the management of armyard manure, and that manura is never aterwardo mortb eo much se it io the day it is produced. He also spoke of the value of Che liquid stable manure, both on account of its nitrogen and potash, and on account of these elements being Prof. Shutt answered a good many questions in regard application of manure in winter and supplyying, or least, preserving the humus in the soil.
The Directora'
The Directors report, read by the Secretary, roing particularly of the Institute work, the yoark speakk Exhibition Commission, and the committee appointod to meet the Tarif Commission. The innancial statement shower a Jutance of $\$ 190.17$ on the right side of the

> edger $T u$
 deal of discussion, and, moved by ,John Donalddon, it was resolved that, whereas the Institute work in this Province is now cariried on from three heads, viz, the
Secretary of N. S. Farmers' Association, the Agritew tural College and the Provincial Secretary for AgricullCure, a committee be appointed to confer with the heads of these several departments, with 2 view to consollidating the Institute work. Committee, Wm. Vinten, ©.
H. Black w. Tos. P. Landry gave a very, interesting and in structive address on the production of egge in tindescribing a cheap and comfortable henhouse, also mode of reoding and management. This paper brought out
considerable discussion. W. H. Woodwort that it is neceseary to sive some soch pointed out to the management of chickens, in order to make the Dusiness proftable, just as it is necessary to give atten-
tion to any line or business to make at At this sioners, Hon. Messrs. Fielding and Patterson Commise ushered into the hell, and Mr. Fiending explained that having a short time in Truro between trains, they were pleased to attend the convention of the Nova Scotie
Farmers tions which might be made to them. Mr. E. J. Fubto of Annapolis, asked for the continuance of the duty on apples, and the reduction of the duty on agricultural
implements that frrming is not capital invested as other industries and that the as a class are in favor of a reduction rather than incrense of dutios. Other speakers followed along similar
lines.
The evening session was a very proftable one, and the programme consisted of an ard press froub Prof, anm
ming on ". The Livestock Interests of Nova Scotiae, address from B. W. Chipman. Secretary for Agriculture, of the live stock of the Province, and an improvement that greand old veteran seedsman and farmer, Wm. Ren nie, on cultivation of the soil and selection of seedere Wornesday morning was taken up with reports of elected: President. H. Miles Chipman tof Nictan being Vice-President, C. H. Black, Amherst : 2nd Vice McKay, Shellourne. Directors-E. J. Eilliott, Bridge tou ; Malcolm McLeod Loch narew McPherson, Pic Antigonishe. Auditors-M. G. De Wolfe Kem .inten Wy. McNeil, Digby. Exhibition Commissioners-Jos. $\mathbf{B}$ Wyman, Yarmouth, and David Logan, Pictou. the Agricultural Collegn, and Prof. Shute want over to dress on balanced rations, after which Prof an ad conducted the delegates to the stock pavilion, where
some specimen some specimens of each of the breeds of horsee and cat-
tie were paraded, and then the barn tie were paraded, and then the barns and pountry, houses
were visited, and the delegates expressed themelvea very much ploased with the quality of the stook and the Onvenince of the arrangements for stabling and feeding the Agricultural College Prof. Sears, Horticulturist of and management of ane, grchard, a lilusurtrating on cultivation lecture
by lanter ly lantern views, and the convention clooed with the
National Anthem. The convention National Anthem. The convention was the largest over
held, including about eighty


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BANKING BY MAI for collection.
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 ant 近家uration.

Our Next Literary Society Topic.
Essays on "Popping the Ques-
tion "are coming in rapidly tion "are coming in rapidly, and we
are now assured that our Literary Society, as judged from results, is an established institution and a rec-
ognized success. ognized success. Next time we are
to have a debate. The subiect is o have a debate. The subject is
not a hard one, yet one which is of deep moment to formers' sons and
daughters. Besides, it is one which daughters. $\begin{aligned} & \text { Besides, it is one which } \\ & \text { affords ample rom for discussion, as } \\ & \text { there is }\end{aligned}$ there is much to be said for each "Resolved that a High-school Edu-
cation Qualifying for a Teacher's cation Qualifying for a Teacher's
Certificate is of More Advantage to Certilicate 18 of More Advantage to
a Farmer than an Education Guali-
fying Him for a Diploma frvin a Bustiness coilege.
This time we have decided to make the "time ", much shorter than pre-
viously; we think interest in the Society will be better whetted so.
Hence all essays must be sent to Hence all essays must be sent to
this office not later than March 1st.
Other rules governing the debate are as follows: 1. Essays must not contain mure
than 500 words. cision wake either side you like. De-
depend more on the strength of the points than the num-
bers who enter. 3. Full name and address, with
nom de plume, if one is used, must accompany each contribution.
4. Write neatly, and on but one We have every confidence that our readers will join in naking this de-
bate a most animated one. When writing, state whether, in tevent of
securing a prize, you would peffer a

Andappreciation of the Novel.
cess, and not a feew novels are a
combination of froth and trash, but combination of froth and trash, but
the thandara fiction of the iteraray
 truth in classic form. Teaminds me of $a$ speaker who, in $m y$
hearing hearing, at a convention, once de-
clared that if he had his way he
would th would "burn 'em all up." Whew As a youth, I delighted in the fairy
tale and "Robinson Crusoe," and hope I'll never grow too old to love them. Childhood is a happy world
of romance. Uncle Tom's Cabin is of romance. Uncle Tom's Cabin is
fiction, but it helped powerfully to free enslaved millions. George Eliot's "Romolo" is fiction, but. it portrays with all the vividness of an
ancient seer the peril of ancient seer the peril of tampering
with conscience and the consequent deterioration of character. In Vic tor Hugo's imperishable " Les Miserables" we have enacted before us the the mastery of a human soul, and witness in Jean Valgean the glorious recovery from sin and selfishness Stevenson, whose raie life was lately portrayed in these pages for us, de scribes in "Dr. Jekyl and Mr. Hyde " the terrible battle between
good and evil, as the Apostle Paul
describes it describes it in the seventh chapter of Romans, from whence the novelist drew his inspiration. Hawthorne's
"Scarlet Letter ". points to the rets ributions of conscience, the the retributions of conscience, the necessity
and nobility of repentance, and the confession of sin. Well would it have been for many a blasted life
had the moral of that matchless fiction, so we call it, been early burned into the consciousness. Space fails me to enumerate others, but our
well-chosen shelves are full of them well-chosen shelves are full of them.
The world owes a debt of gratitude for the reforms and the moral progress which the novel has hastened on. These great books illustrate
and emphasize eternal truth, and reverently let me say, the Divine Teacher Himself utilized the very method and vehicle of thought in the story of the "Prodigal Son
and in scores of other instances. I hope this friendly discussion will
help us to discern what is great and help us to discern what is great and
good in the realm of fiction. If we
come to understand the novel come to understand the novel of
merit, and what it has done to merit, and what it has done to we shall be better prepared to appre-
ciate its true place in the world's ciate its true place in the world's
best literature, and be less sweeping best literature, and be less sweeping
in our condemnations.

## John Ruskin.

There are those among us who, reading here or there a chance sen-
tence, glittering like a gem, perhaps among the more common pebbles of some magazine, and followed by the meager subscription, "Ruskin,"
have been inspired to seek out some have been inspired to seek out some
of the ponderous tomes written by this eminent critic ,of art and life-
.'
Modern Painters." of Architecture,"." Stones of Venice,
have wandered over page after page, wading, sometimes painfully, through much which, by reason of limitations of circumstance, we could grasp but
here and there for all men, and only to be found by a steadfast going on.
How we have longed during such hours for the purse and the leisure which would permit a European trip, drals he describes. to examine and compare from the originals the pictures of Claude, and Constable, Perugino, Leonardo, Michael Angelo, Turner ; and to prove if, by such means, we could get a grip upon even a few of those things which
Ruskin has seemed to seize upon Ruskin has seemed to seize upon
with superordinary vision. yet, possibly, with neither the purse nor the leisure, we might have done better. There are books and books the cathedrals. There are printsthe cathedrals. There are printsgiving some clue to the idea-of neary all the famous paintings, and to quite suitable for framing too, from Brown \& Co., Beverly, Mass.; Perry


Malden, Mass.; Cosmos Co., 296 Broadway, New York, and others.
Nevertheless, even without these lustrations, we have felt amply compensated in reading Ruskin. Not on language comparable a grip uppossessed by some of the best among the poets, he has written some of the finest passages of English in our scintillating bit of description. "Then let us pass farther towards the North, until we see the Orient colors change gradually into a vast tures of Switzerland, and poplar valleys of France, and dark forests of the Danube and Carpathians stretch from the mouths of the Loire
to those of the Volga, seen through clefts in grey swirls of rain-cloud and flaky veils of the mists of the brooks, spreading low along the pas-
ture lands still, to see the earth heave 'into mighty masses of leaden rock and heathy moor, bordering with a broad waste of gloomy purple that belt of
field and wood, and splintering into irregular and grisly islands amidst the northern seas, beaten by stornc,
and chilled by ice-drift, and tormented by furious pulses of contending
tide, until the roots of the last forests fail from among the hill ravine and the hunger of the north wind bites their peaks into barrenness;
and, at last, the wall of ice, durable like iron, sets, deathlike, its white teeth against us, out of the polar twilight." Or, this daintest o pastels, whose subject is the cloud
bank of the summer sky: "Who among the whole chattering crowd, can tell me of the forms and preci-
pices of the chain of tall white mounpices of the chain of tall white moun-
tains that girded the horizon at noon yesterday? Who saw the narrow sunbeam that came out of the south and smote upon the summits until
they melted and mouldered away in they melted and mouldered away in
a dust of blue rain? Who saw the dance of the dead clouds when the sunlight left them last night, and the west wind blew them before it
like withered leaves ? All has passed, unregretted as unseen. .i. fierce manifestations of the elemental energies, not in the clash of the hail, highest characters of the sublime are developed. God is not in the earthquake, nor in the fire, but in the
still, small voice." Yet, not only Ruskin confined to his fine writing on account of which, he complained, he was sometimes read rather than
for the sake of the truths he tried to bring out. His deepest fascination lies in the bits of philosophy again, and again, whether hain and agribes a Gothic window, a cloud passing over the heavens, or a bit of Venetian glass. And why should
he not wander off, all his criticisms on art there heaved continually his one great object-to raise mankind and render it happier. Ruskin was a man with a purpose.
Does he speak in appreciation of a painter? It is because he revognizes that upon the true artist lies the "responsibility of a preacher." Does he laud a type of architecture ? It
is because he perceives the mind of man working through that architec-ture-all noblest architecture but the expression of a noble idea, a a cloud, or sunbeam, or the shadows beneath a tree? It is because he considers that we should "receive leaves, and waves." clouds, and these things he would impress upon us for our good.
highest possible development reach its pleads well the cause of the and he classes-the great horde of manual lead mechanical lives too often, to lead mechanical lives. Individual, interested effort, invention, must be man must be a slave. "But, above all," he says, " in our dealings with the souls of other men, we are to requirement or we chack, hy severe
forts which caution, offorts which might otherwise leed to noble issue; and still more, how wo
withhold our admiration withhold our admiration from great with rough faults. Now, in the make and nature of every, man, howploy in mainual labor, there we employ in manual labor, there are some
powers for better things ; sume turdy
imagination, tottering steps
thought there are, even at the wors and, in most cases, it is all our ow fault...You can teach a man to draw a straight line, and to cut one ; to strike a curved line, and to carve it; and to copy and carve any number
of lines or forms, with admirable speed and perfect precision ; and you
lind his work perfect of its kind; but lind his work perfect of its kind; but
if you ask him to think about any if you ask him to think about any
of those forms, to consider if he
cannot find any better in cannot find any better in his own own
head, he stops; his execution become hesitating ; he thinks, and ten to one he thinks wrong; ten to one he
makes a mistake in the first touch he gives to his work, as a thinking being. But you have made a man of him for all that. He was only a
machine before-an animated tol machine before-an animated tool."
One would like to go on quoting from Ruskin more of these words of wisdom, which each one of us-
since to so great an extent since to so great an extent each man's
mind and body are his own work-man-may apply in greater or lesser degree to himself. But we have not
space. We shall however space. We shall, however, be satis-
fied if we have so stimulated any ged if we have so stimulated as to induce him to
onead Ruskin read Ruskin, especially the 6th chapter of the 2nd vol of "Stones of
Venice," in which he has embodied his creed. "Madern Painters," the
writing of which occupied him dur ing twenty years, he considered his masterpiese, yet to us this work
may be of less value, debarred as we are from acquaintance, at first hand with his hero, J. M. W. Turner,
Nevertheless,
will well repay Modern Painters will well repay the reading. Othe
volumes are: "Seven Lamps Architecture," " Unto This Last ""The Two Paths," "Crown of Wild Olives," "M Munera Pulveris," " Se-
same and Lilies," ', Time and Tide same a
by We
terita.'
As for the hire of Ruskin, we hav work, we have Ruskin the man Suffice it to say that he was born
of Scottish parents in London, Feb of Scottish parents in London, Feb. with his father, who was a wealthy
wine merchant, and in those travels developed that keenness of observation and love for beautiful things
which became such an instrument il his later life. He was edrucated in Oxford, where he held for some time the Slade Professorship of Fine Arts. In his reading, Carlyle was his hero,
as was Turner in art happy marriage the lime-light has already, perhars, been too vividly thrown. Ruskin died in 1900, Coniston Water, in lancashire. Ih.
was buried at Coniston, and a monument was erected in Wertminster Ah-
bey as a tribute of honor to this, the last great leader of thought of One cannot close without sugges
ing that a study of huskin at th
time, when the fight against cla privileges in Great kritain has re-
sulted in so sweeping an overthrow of the Conservative Government,
might be especially opportune. Rus-
kin position which he encountered, was
yet seer enough, as remarked by an English writer, to foreshadow muc
of England's twentieth century legis lation.
not the recent appointment of John
Burns-the Burns-the first laboring man who
was ever granted a seat in the Tng-
lish Cahinet-be hut a furt her index to the fact that, as regards social
ethics, Ruskin lived ahead of his

Dr. William Osler recently recited a
quaint old cure for gout. First, pick
handkerchief from the
a handkerchief from the pockett of spinster who never wished 10 wed
second, wash the handkerchicf in an honest miller's pond : third, dry it on th
hedge of a person who never was covet
ous: fourth, send it to the shop of ous; fourth, send it to the shop of
physicician who never killed a pationt physician who never killed a pation!
fifth, mark it with a lawyer's ink "u!
never cheated a client, and, sixth, apy! hot to the gout tor

News of the Day.

The New Minister of Marine and Fisheries. - Hon. Louis Phillippe Brodeur, who was sworn in as Minister of Marine and Fisheries at Ot tawa on Feb. 6th, has long been nent Liberals in the Prost em Quebec, especially during his term enue, He was bec, in 1862 and was bec, in 1862 , and was educated at
St. Hyacinthe College and Laval UniSt. Hyacinthe College and Laval Uni-
versity, from which he was graduated with the degren of luas graduatsequently he entered the legal pro ression, and carly in his career be-
came idemilied with pol tical life. came idemilied with pol tical life
He was speaker of the House of Commons from 1901 to 1501 . Besides being an excellent speaker-
either in French or English-he has a ready pen, and was at one time on the editorial staff of Le Soir. Mr. Brodeur has represented the con-
stituency of Rouville in Parliament since 1891, but is now being Mressed to run as candidate for taine. Maisonncuve is the Iargest population of 80,000 , of whom 25 ,-

British and Foreign
A revolutionist movement is said

Japan has decided to increase

The Earl of Aberdeen was enthusastically welcomed in Dublin on his
recent state entry as Lord-Lieut. of

The first passenger train has suc Msfully passed through the Simplon Tunnel in the Alps. The tunnel, it will be remembered, is $12 \frac{a}{3}$ miles (III) lives and $4,006,000$ pounds

Can We be Sure of God? Then said Jesus to those Jews whic Then said Jesus to those Jews which
believed on Him, If ye continue in My
Word, and ye shall know the truth, and the truth shall make you free. - St. John viii. ". They must upward still and onward, "What is truth?", said Pilate, and that is the question men are everywhere
asking to-day. Someone has de:lared
that the symbol of this ace is an in. terrogation symbol of this age is an intell inte!ligent men and women enough to Bible says so-and-so, for the Bible itself is on trial; it is being tested and min-
utely examined, weighed in the balances by learmined scholars-will it stand the those who shall we join the ranks of man's criticisn? Are we afraid that it ill not come out of the furnace as gold chied in the fire, but will be destroyed as
chafl that is burnt with fire? venture to look this burning question of
the present day squarely in the face, it
will surely force will surely force itself on our attention
before long. Anything that is true will bear the closest scrutiny: in fact, it
courts inquiry, and the more light that can be brought to bear on it the better.
Anything that is not true will surely be
exposed sooner or later-the sooner the exposed sooner or later-the seoner the
better. Let us never fear to bring our
faith to the light. light, then it is very plain that we the
litthe litthe faith in the truth of the faith we
profess. It is well that we should know
the "certainty" of those things wherein the certainty of those things wherein
we have been instructed. In these days,
it is not enouph to sul. it is not enough to say, "The Bible must
be true, liecause my mother taught me to
believe believe in it.", A child naturally ac- ac-
cepts his mother's statements confidingly cepts his mother's statements confidingly,
but a man must have stronger grounds
for his faith than that shut one's eyes to the results of modern lishlical research. to say obstinately.. II I
will not listen to a word the higher criti s are saying, 1 will hold the opin-
ions I have always held, whithout ions I have always held, without examin-
ing them at all." That was the plan
adopte.s ty Saul of Tarsus, when he zeal-
$\qquad$ its claims. Taking any trourl. to examing he a ted conscien-
Thously, his position was a and mistahen one.
Now, I Ion't profess to believe in the
higher criticism.

Is our faith in the inspired recor the Creation any less strong because
rocks, which do not lie, have proved fond the shadow of a doubt that world was not created in six of
short days? short days? If we could go back
that belief, how cramped would be, as compared with theor sweep of Gdd's great Days. So also we may accept the deep, spiritual reality the story of the Fall, without feeling
quite sure that Eve talled to serpent or picked fruit off a interal trea. In fact, it comes home to us with far more force, if accepted spiritually, for w
know the sad consezuences of the Old Serpent's subtle temptrtioning plucking the forbidden fruit from the tre can understand that and evil. We, to sin is banishment from a happy Gardo of Eden. a garden of innocent pleasure If not from our own experienc., at leas great multitude, which no man can num her, that the Bible has proved itself Wh is continually proving itself, the historical research-though that is valu power of strikine hut hy its marvellous sinful of striking home to the hearts of ge of God's Word. for it is in inll the han quick and powerful, and sharper and of the joints and and soul and spirit. discerner of the thoughts and intents of must deny the Anyone who denies this numerable witnesses. ne merience of in-
beare word againse his try to prove a negatice. $\begin{gathered}\text { He must also } \\ \text { Just because }\end{gathered}$ Sway not have felt the power of that Whatever that others have not proot The Bible has inspired untold millions to up to the weat beatiful lives. and to hold How do "e hnow that such things are courage than collardice. kindmess than ruelty, Surely we can all recognize that it it heautiful) It is folly to
argue with a not instinctively recogniza the spirit cancourase, love or purity, then beauty of wasting time or purity, then it is only
$\qquad$
$\qquad$
 come to its first atave issue-the Semi military police, while Germany patient researches. But let us not fear Him, Still we struyple ulpurd after Him Would thus become virtually the "The Scripture annot be broken." says etornal life? Word, and it has already endured best we sie the to reach th
niaster of Morocco's political future. many
 I, iberal Ministry therre is but one
Irishman, Janies Bryce. The Irish ed, because they are pledged not to werthrow it. lie of (iod, ye cammo hall" in the time of trouble, a presen but to sit with the ouposition Crown, to haght apainst ciod.". Way ung ciod. Ho has never leit hers until Mome Rule is granted. Wo d of (iod ", but do we all mean the outward witness, but the not only an


 significantly represented in the Cab- printed for our benefit in the peraly to heep alroust on Trath," if we wan
 ley Herbert Glardstone, John Burns version of the Psalms. These difier con ation und for wew mowsuave for each gener-


Fli.fRUARY 15, 1906
He meets the need of ench sa and His revelation ho difireremt teheach,

 Sut still I I teel that His embrace
Silides
down
by
thrills through to
Throgys hach and sound placof
On my shut lics her hendid
Hall waking mo at nityst, and sasidite
Exueser ren
gueser ?
норе.

- The Souls of the Children Who bids for the littl
Who bids for the little children-fair and will no one bid? What, no one-for their souls so pure and white,
And fit for all good or evil which the world on their pages may write ?" bid,"" cries Beggary, homling
bid for them one and bid for them one and all ! teach them a thousand lessonsThey shall sleep in my lair, like maggots. they shall rot in the fair sunshine;
And if they serve my purpose, 1 hope .. they'll answer thine." Crime, with wolfigh grin;
- For 1 love to lead the children through They the pleasant paths of
They shail swarm in the streets to pille
they shall plagiue the broad highwa 'Till they grow too old for pity and ripe

The prison and the gallows are plenty in the land; ;
'Twere folly not to use them, so proudly Give mo the little children-I'll take then as they're born
And feed their evil passions with misery " Give me the little children, ye good ye rich, ye wise,
And let the busy world spin round, while yo shut your tdle eyes:
And your judges shall have work, an your lawyers wag the tongue, And the jailers and policemen shall be
futhers to the young.,
Charles McKay. Faith's Stairways. L.ong years ago, on a day of thick fog
and
pouring
rain, I I ascended a mount
 pany we were when we reacheod the coabin
on the summit. But towurd evening a mighty wind swept away the bank o hist, the body of the blue heavens stood
wut in its cluaruss, and before us was evealed the nafnificent landscape siretching away to the s.a. That scenc
nas at the time, and has ofren been
tit mee that faith's stairways are over steen and slippery rochs, often through blind-
ng storus ; but (iod never loses his old on us, and if we can endure to the
end, ho will yet bring us out into the clear shining ater rain.
So itt's better to hope, though the clouds
$+$
And to keep the eve still lifted; through
When the thunter cloud is rifted.
-Theodore L. Cuyler. D. D.

The Humorist.
Thice happy is the man who sees
The equaint, ludicrous side of things, IT in the stress of daily life
This insigit heals a thousand stings - surrows of a suffering world reople hear his genial laugh
r.d cense to think about their woes live the map whose hart is fresh.
smiles bencath the darkest $\mathrm{g}^{\prime}$ isw this weary world reveals
tumor that around us livs

FARMER'S ADVOCATE


Lawn Planning. will show, perhaps, more forci:ity than any amount of talking, the fatality of making any mistake in lawn-plataning.
The Italian, a severely formal type The Italian, a severely formal type, while
suitable enough for some situations in sultable enough for some situations in


Fornal Italian style of lawn decorati
Stiff, and hard to keep in order.
as will be seen, entirely out of place for the sole lawn on a farm. It is a style
of which one must tire wofully in time, looking, as it does, as though forever on ress
parade-nothing cosy or restfu
about it. Who, for Instance, could eve think of going out in wrapper to peel a big dish of potatoes
in the shade of one of those stiff, dignied "Queen Ann" trees? Or who d "Queen Ann" trees? Or who

What enticingly cosy nooks suggested betoath the big trees on the left ! Note, owards the house to conceal the foundahection between the house and the rest of the landscape. The fine house in this case, of course, adds to the effect, yet a
tasteful vine-covered one of fewer pre-
tensions, whether brick, stone, frame, or in point of attractiveness.
An ideal way of securing a desirahl situation when building a new house is,
when practicable, to choose in a hardwood grove, then clear out the trees as desired. If, however, there be grow as rapidly in in artistic that trees grow as rapidly in artistic as in in-
artistic positions, and it remains


Simple and restul. Note the broad spaces and shaded nooks. The massing
shirt sleeves under one of them to take to see that the best and most home advantage of the "coolth," as kipling like results possible are attained in the
calls it, on a hot summer's day ? . . of work and time it must take to keep

Planning the Garden.

## (t) the other illustration. most eminent forist in America, contain

January is not too early to begin making plans for next summer's garden. Go over the catalogues, and declde on
what you will have, and then set about deciding where you will have it. Take into consideration the size, the habit, and
the color of the plant before you locate the color of the plant belore you locate
a bed for it. Keep the large plants in the background, graduating them according to their beight. Hit-or-miss arrangements are generally most unsatis-
factory. The little plants get where the big plants ought to be, and inharmonious colora get jumbled together in a lashion absolutery painful to the eye that is fore, consider your material well belore you decide where you will put it. It is an excellent idea to make a diagram of
your garden. Where you have an line of it on paper, it materializes, in a sense, and you see things more cieariy than when you carry the plan in your
mind. Therefore, make a sketch and when you have made this of inch over, as very likely you will more than once, before seed-planting time is here, you will have something defnite to work
to. This, you will find greatly fies matters. We have all seen the anduteur gardener, who begins in some 1, urt of the garden and makes a bed for
1'etunias or Asters, or some other plant and then goes on to make a bed for somuthing else, and so keeps on without giving any thought to the garden as a
whole. The result is alwas unestle fuctory. It lacks coherence, unity and goncral harmony. Every bed seems triving to be independent of every other which precisely in the same manner in collection of beds; and not a garden in the true sense of the term. Always considger the garden as a whole, rather thair Lind, and you will avoid many of the nistakes amateur gardeners fall into.
This will oblige you to This will oblige you to locere emech plant
with due regard to its neighbors, and to with due regard to its neighbors, and to
the place it is fitted to fill, and no colors that clash, no ptants that are out of place because of size, will annoy you

## Seasonable Hints.

Don't be in too great a hurry to talio your Fuchslas, Geraniums, Gloxinlas, etc., resting unt the cellar; leave them thore Ell the better during sumger will do hibernation."

If you have Cyclamens in bloom now. o dry out. A Cyclamen ner permitted an once A Cyclamen corm which in bloom or out of it, is dry, whether worthless afterwards. Other quite Which will be the better of more water "hen dry" rule are regulation "water Begonia, Petumia, Leopard Pa, Ferns, severia, Calla. In the caso of all of these, the drainage. must be good, and The Umbrella Plant, being a water slacer. cannot have too much water, and is suecessfully grown by placing the pot in 6 foliage of hairy leaved Never spray the -
If earthworins in the soil are ining lime plants, difive them out by uslime water to a pint of clear water, aphelp once a week. The lime water will become sour. Two or three applications of weak soda water, put on at intervals of ten days, has also been recommended

## Name of Plant Wanted

Muriel," Mount Wolfe, Ont., writes : he proper treatment during me what is the flowering season of the plant come it be placed the 'Companion'? Should Ans.-We do not know the plant you mention under the name given. If you able to tell, or, perhaps, some reader may be able to give the more scientific
name. require to be rested all flowering plants in the cellar and glven very littile wator

THE FARMER'S ADVOCATE
Pity Not Yourself (By Maxim Gorky, the Russian Novelist Honor to the men who
pririt, the many men,
truth apirit, the manly men, men
truth, rightoousnese and beaul
know them know them not, , oro they are proud and
ask no reward. We see not how ask no reward. We see not how joyous
iv they ofler up their hearts to be con sumed. Illumining life with a brighi - bave, they compel even the blind to see It ia necassary to make the blind see
the blind who are so many. It is neeceseary that all people should be made to see with terror and disgust how coarse, unjuat and senseloss is their lifo. Long live the
sires.
the suffering of humanity is inole world, The evil and dirt of this tife, its saula. hood and cruelty. aro his enemies. He hroely givee ell his hours to the war, and
his ilfo is filled with tempestuous joys, noble wrath and unbending pride. Pity
not not yourselif-this is the proudest, the
most beautiful wisdom on earth. Honor to the man who is incapable of pitying himeth. There are two elements in inf
diecay and combustion. The eowardi and decay and combustion. The cowards and
the misers choose the Arrst, the manly and generous men the second; everyone who

teek for the noble and exalted
The hours of our life are sad, empty teoere to tet us wo shall live beautiful hours full of joyous exultation, full of burning pride. Long live the man who cannot pity him-

A Necessity to Letter-writing. There is a lawyer in Atlanta, who
Tormerly had in his employ a colored boy Yormerig had in his employ a colored boy
oby the name of Sam. Same Sam
sought out his employer, and stated that
 tikler", business for him, "You se gal dat - I wants you to write a letter
"Oh," said the lawyer, with a smile,
and what is to be the subject of vo "and "hat in to be the subject of your
epistle 7 The lawyer put to sam some
turther interrogatorie such .
 Want to marry her ? Does she loue
you ?." etc., to all of which questions Sam gave a decided "Suttinly, suh !" The lawyer proceded, with care, to com-
pose the letter, which, when finished, ho summitted for sam's approval.
"I know you'll 'scuse me, suh,", said the
darkey, scratching his head. ." if I offer a darkeg, scratching his head, "if I offer
suggestion - some po potry like this:

$$
\begin{aligned}
& \text { De rose am red } \\
& \mathrm{An}^{n} \text { de de vylets blue }
\end{aligned}
$$

De pink am protty,

Without a smile, the lawyer inserted the poetic. sentiment desired. and then asked
if that were all. After another pause while Sam again scratched his his hause by
way of refection, he added .. I think. way, of retection, he added. 'I think
suh, dat dere's one mo' thing dat



Opportunity.

nd underneath the cloud, or in it, raged
furious battle, and men yelled and Wavered, then staggered backward, hemmed by fors.
A craven hung along the batte's edge,
And thought, "Mad $\begin{aligned} & \text { steel- }\end{aligned}$

| That $\begin{array}{l}\text { steel- } \\ \text { the bade that the king's son } \\ \text { bears-but this }\end{array}$ |
| :--- |

Blunt thing-" He snapped and fung it
And, fommering, crept away and left the
Then came the king's son, wounded, sore
And besteand, $\begin{gathered}\text { weaponless, and saw the broken }\end{gathered}$
Hiit bworied in the dry and trodden sand, And ran and snatched it. and with batLifted atresh, he hewed hiq enemy down
And savied a great cause that haroic day


A Winter Evening in the Country.
A friend of mine, 1 iving in the country, Axvited a number of young people, of
whom $I$ was one, to spend the evening at her home, which was about Ave milea
from the town in which we lived from the town in which we lived. She
told us she would have a sleigh sent in for us, instead of the unnteresting ride out on the car. Of course, we all ac-
cepted, and in due time were ready wo gathered at one house, and roady. Woll wrapped in furs and cloaks, with a good-
$1 y$ supply of shawls, in case of a Wepply of shawis. in case of a storm.
When are
Wust completing our wrapping when the sleigh dasted up to the door.
In it was our friend In it was our friend, with a fow other
young people and the driver. It wat young people and the driver. It was an
otr-fashhoioned bobsleigh, with plenty of
straw in straw in the obtom, and room enough
for aull. We were soon seateod and wrapped in the robes. The wo started
with $a$ great jingling of bells and much laughter-overyone ready blols to enijoy muny thing in store for her.
It was a beatifirl night. The moon
was shedding her light. Was sheding her light on the troon
abead of us, making it
ablimmer like abead of us, making it glimmer like
polished theel.
enough the air was just cold enough to be bracing, and botween talla-
ing and singing. our destination ing and singing, our destination was
reached before we were aware of it. Wo were soon out of the sleigh, and troop-
ing up the veranda steps, as hungry wolves, and nothing loath to get around
the bright, crackling By the time we were warmed awnd un-
bundled, another aleigh load from the

neighborhood drove up.
soon exchanged, and wo met were the rosy-cheoked apples, popoorn, hickory hute and homemade candy which were After we had partaken of our lun
we played games and had muvic then went out for a snowball game the moonlight. We soon had enough of
that, and having had out that, and, having had our facoes washod,
retired to the house, where we were treated to a drinh house, where we were
By this time sweet milk. By this time it was hall-past ten, and
we began to get reasy We began to get ready for home, fation-
ing each button securely, as the snow was Talling. The sleigh soon drove up to the door, and we tumbled in, calling to good-
hye to those in the hye to those in the door, as we swung
out of the gate.
Our friend was wid out of the gate. Our friend was riding
back with us, and she ordered the driver to take us home by another road, which
was a little bit
 the ride more, and enioying it we were,
when we found oursalves in In turning a co ner, the sleigh had tipped No one was hurl, and we bruched tho
snow orf, and piled in again. with muh snow or, and pled in anain, with much
gusto we travelled the remaining part
of the road without any accinent, and of the road with out any accident, and
unloaded at our our, uust stopping lone
enoush to thank enough to thank our kind friend ank
throw her a partung snowball before and 1ng in Tore going to the in respective wormes be

## or of the mast pleasant everinss we had <br> one of the most pleasant evenings we had spent and that the country peoplowere ere not to be pitied so much as we before

 not to be pitied so much as we beforethought them to oo
JENIE SEXSMITH (age 15).

## Jidgeway, ont. SEXSMITH (age 15). Snowfales.

 as the "Ministering children, League," their motto being .. No day without
kindly deed to crown nt." $\underset{\text { small, }}{\text { Look }}$ at the Snowfakes, so tiny and Falling so sortly, and covering all
With mantle so pure, so sootlead
Making us think we're in Fairyland quite, No one can count them, and no one can Just at what moment each beauteous
thing fell : But we know that God sent it, and bade
in stion
In feathery whiteness, its own place to " But that's such a small one ! Sure no Should a truant wee Snowfake choose You milight nore to noat, nor I, '", but the Father Would know it had falied in its errand

The same fountain atter Jack Frost has
done his work.
ATe
A pyramid of ice So, little League Sisters, will gather an
The grow daily deed each has promiscol. Till, you know, $\begin{gathered}\text { together, you'll weave a garment }\end{gathered}$ far
As ther mantle of snow which is soread The dear Saviour will watch every efrort ne dear Saviour will watch every eflort
you make, And suurely make,
sill bless it, if done for His So be true to your motto each dear little
Band And $\frac{\text { go lo lovingly forward, with hand }}{\text { joined in hand }}$
 Control of themselves that such complete
hrough the mon pas without doing or saying ang situations



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

What the World Wants
Men whose word is their bond
Men who put character above weal Mren who possess optinons and a wil Men who will not lose their individu
Men who will not think anything fitable that is dishonest,
Men who will be as honest in sund Nos as in great things.
Men who will make no compromise win Men whose ambitions are not confned o their own sellish desires. Men who are willing to sacrifice privata Men for the public good. who are not afraid of fallure. Men of courage, who are not cowards
in any part of their nature Men who are larger than their busing ho overtop thelr vocation. Men who will give thirty-six inches for yard
Wishel. and thirty-two quarts for a Philanthropists who will not let their
ight hand know what their left is doin
 nesty for business purposes and and Young men who wiH
highest ideale in spite of the sneers and laughter of their companions.
than that of public applaueen ald carger salary, or a fashionable church, large pull wires, or be infuenced in their policy by personal motives. Magnanimous souls who do not loa upon everybody they meet for the pos-
sible use they may be to them Men who are true to through good report and evil report, in adversity as well as in prosperity.
Single-hearted people who do not single-hearted people who do not look
at every proposition trom the point of Journalists is there in it for me rilous, scandalous articles merely because
their editor-in-chief wishes them Young men and women who can stand erect and independent while others and fawn and cringe for place and power.
Men who Men who do not believe that shrewd-
ness,
sharpness,
cunning ness, sharpness, cunning and long
headedness are the best qualitice for win .. Merchants who will not offer for aale American mills, or "Irish linens" made
in New Yorl Lawyers who will not persuade clients
to bring suits merely to squeeze fees out they have when they know very well that
Mien who havce of winning. Men who have the courage to do theit
duty in silence and ond duty in silence and obscurity while others
about them win wealth and notoriety by
nerilectinc sacre negirecting sacred obli gations.
Thysicians who will not pretend tole know the nature of a disease when they
do not, or experiment on patients with
ddus drugs with which they are not familiar.
Men who are not ashamed or alfraid stand for the truth when it is unpopular
who can may tho can say "no" with emphasis, al Men who have the courace to sea Mreadbare clothes che courage to wear nd lainly, if nece sary, while their cont-

GBRUARY 15, 1906
A Refuge in Distress.
 when comes to things like w
boy wants, he ain't much
when it comes to cuts or warts In stone truise on your
rellow's father don't kn
fellow's mother knows. fellow's father, he looks wise And says: A-hem! A-hem!" "
But when it comes to cakes and pies,
What does he know What does he know of them?
He knows the price of wheat and rye And corn and oots, it's tru

And if you burned your back the time That you went in to swim,
And want some stuff to heal Because he doesn't know a thing But you just bet, and don't forget, nd If your nose sunburned, til! It's all peeled off, and you
Go to him for some healin' stuft He don't know what to do.
He's just as helpless as can be He's just as helpless as
But when a fellow goes and asks his mother, why, you see A fellow's father knows a lot, o if a fellow's really got
The leg ache or a bruise, He gets right up and goes nd asks his mother, for, you se

## Mother

## Row many buttons are missing to-day Nobody knows but Mother.

fow many playthings are strewn in the ay ? ${ }^{\text {Nobody knows but Mother }}$ How many thimbles and spools has she
missed ? How many burns on each fat little fist?
How many bumps to be cuddied and many bumps to be cuddied and How many muddy shoes all in a row? Nobody knows but Mother.
How many stockings to darn, do YOU Nobody knows but Mother. How many hours of work must she What is the time when her day's work Nobody knows but Mother

```
How many cares does the mother-heart
```

How Nobody knows but Mother.
Nobody knows but Mother.
How many prayers by each little white
bed?
shed ? tears for her chicks has she
How many kisses for each darling head?
many kisses for each darling head?
Nobody knows but Mother.

Little Wıfe.
Nor listen to the angry wind
That roars around the world.
I only know my journey's o'er, ..... light that tells my little wife
waiting there for me.
Eentle wife ! my darling wife
My soul's own joy and pride! ..... hen you became my bride.
never known a weary hour
nce I have held your hand-
cetly from her loving
blisfful welcome falls :
side our humble walls.
sad indeed would be my hea

FARMER'S ADVOCATE


## Horse-sense Reminders.

Dô't leave me hitched in my stal at night with a big cob right wher I must lie down. I am tied an can't select a smooth place. Don't compel me to eat more salt than I want by mixing it with my oats. I know better than any athe animal how much I need. Don't think because I go rree under
the whip I don't get tired. You the whip I don't get tired. whip.
would move up if under the would move up if under the Don't think that because I am horse that weeds and briars hurt my hay Don't whip me when $\frac{I}{\text { I }}$ get frightened along the road, or I will expect it next time and maybe make trouble. Don't trot me up hill, for I have to carry you and the buggy and myy
self too. Try it yourself some time self too. Try it yourseli so Don't keep my stable very dark for when I go out into the light my
eyes are injured. eyes are injured. whoe " unlase you
Don't ssiy " what Teach me to stop at the word. It may check moway and smash-up. and save a runaway and smash-up.
Don't forget to file my teeth when they get jagged and I ca
my food. they get
my food.
When I

$$
\begin{aligned}
& \text { When I get lean it may be a sign } \\
& \text { my teeth want filing. } \\
& \text { Don't ask me to back with blinds }
\end{aligned}
$$

When I get lean
my teeth want filing

$$
\begin{aligned}
& \text { on. I am afraid to. } \\
& \text { Don't run me down a steep hill, for }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Don't run me down a step hil, for } \\
& \text { if anything should give way I might }
\end{aligned}
$$

break your neck.
Don't put on my blind bridle
that it irritates my eyes, or
that it irritates my eyes, or leave my
my eses.
Don t be so careless of my harnes
as to find a great sore on me befor you attend to it.
Don't forget the book that a friend of all the oppressed, that says: "A merciful man is mercifi"

## Men Who Carry Great Policies

King Edward VII is one of the mol heavily-insured men in the world. Ne
one can estimate what emount the lifsurance companies will be called upon to pay at his death.
$\$ 40,000$ Rothschilds premiums are abou \$40,000 annually for a total insurane lions.
The
ly a million dollars.
Mis George Vanderbilt's essurances as gregate about five millions.
the insurance companies of reaty cous the insurance companies seven mimione
and a half at his death. It is std that
the present king carries $\$ 3,500,000$. the present king earries
The German Emperor in a participato in life assurance to the extent of five million dollars.
The Czar. of Russia is known to carry
four millions, but he is also a continual "our risk," for temporary atissurances taken out by panic-stricken Russian stockholders. His eldest daughter, the Grand
Duchess Olga, is insured for two and Duchess Olga, is insured for two and
quaster infitons, the Czittse for lion and a quartere Many distinguished ladies carry large policies. Lady Curzon has about halfo
million.-[The N. Y. Insurance Journal.

Go to the Plea, Thou Athlete. As an illustration of industry the ant injunction, been held up as a shining example to the sluggard. As a proor of the saying that " practice makes perfect," science ofiers the flea in evidence.
The flea's gait is a hop; he never walks. nor canters, nor runs. As a supreme result of his long and persistent practice
as a hopper we are told he is now able length. yo two hundred times his own
loastful college athletes, to the woods ! If the average broad jumper among our athletes should
achieve the success of the ordinary. fled achieve the success of the ordinary. Alea
he would be abble to jump about 1,100 feet while, as it is, he has never yet. even with a running start, encompissed twenty-five feet. "Go to the ant, thou
sluggard :' go to the flea thou athlete !

- Four Truck News.



## DO YOU KNOW

that there is no need for you to have two kinds of flour in the house-one for bread and another for pastry? "Five Roses" Flour is made from Manitoba. wheat by a process which renders it not only the ideal flour for bread, but which guarantees equally good results for pastry when used the "Five Roses" way.

Lake of the woods milling company, Limited.


Our Motto: Permanence, Safety, Durability Our Aim: A satisfied custome

Our Busíness: Real Estate, Loans

Write before you come to Alberta for particulars of safe investments in farm and city property.

BENSON \& HOULTON,
Calgary, Alberta.
Watch our Ad. during the coming week.


TO SECURETHE BEST RESULTS Place an Ad, in the Frrmer's Adtocato

## Glengarry School Days.

By Ralph Connor-Rev. C. W. Gordon
HAPTER VH - Continued
" Are you going to bed already, the glass. It was a picture of Quichly Hughie
hall to meet her. Yes," he yawned, gratefully seiz- There was a sudden stab of pain a ing upon her suggestion. I'm awfully sob. For a moment he looked int
sleepy. (ive me the candle, Jessie,",
the eyes that looked back at him

"Hughie, you are very, rude. What "I won't do it,"" he said, grindint teeth hard, and forthwith turn would your mother say? Let me to go to his father's study.
ave the candie immediately, I want as he left the room he saw
to get Robbie's stockin Hughie's heart stood still.
"" I'll throw them down, Jessie. want the candie downstairs just
minute.,
"Leave that candle with me," in sisted Jessie. "There's another on
the dining-room table you can get." the dining-room table you can get."
i. 111 not be a minute," "said Hughie, hurrying downstairs. " You come
down, Jessie, I want to ask you something., I'll throw you, Robbie' stockings. bark here, the rude boy
Come bat one
that you are,. said Jessie, crossly, "and bring ine that candle.," crossly, There was no reply. Hughie was
standing, pale and shaking, in the stancing, pate and shaking, in the
dining-room, listening intentiy for Jessie's step. Would she go into his
room, or would she come down? room, or would she come down?
Fivery moment increased the agony
At length, with a happy inspiration, he went to the cupboard, opened
the door noisily, the door noisily, and legan rattling
the dishes. the dishes.
".
Mercy
n
claim at the top of the stair. "That
boy will be my death. Hughie." she called. "just shutt that cupboard! you to go in there.,
i. I only want a little," called out Hughie, still moving the dishes, and
hearing, to his great relies Jessio' hearing. to his great relief, Jessie s
descending step. In desperation he
seized a dish of lack currant seized a dish of black currant pre-
serves which he found on the cupboard shelf, and spilled on the over the
dishes and upon the floor iust Cishes and upon the floor just as
Jessie entered the room Lend sakes alive, boy! will you never be done with your mischie? ?" she cried, rushing toward him.
". $h$ !.". he said, ". I spilt it., ". Spilt, it!" echord Jescie, indignantly, "You nedn't be telling me me
that. Bring me a cloth from the kitchen."."
I don't know where it is, Jessie, ," cried Hughe, slipping upstairs again
with $h$ his condl with his candle. relief he saw that Jossie's attention was so entirely
taken up with removing the staing of the precerves from the cunboard helies and dishes, that she for the moment forgot ex eryth ing else, Rob-
bie's stockings included Hurriving o his room, and shading
the cendle with his hand loct the cendle with his hand lest the
ligrt should awaken his little brothar. he hastily soized the monev unpo
the rednanilt, and after a fev moments searching under the bed, found the
straved ounter With tharter. in his hand to nassed same", During these weoks she had been
into his mother's room.



 a grent sigh of reliwf hem the two anything "We. Besides, he is not

nos. white race
$\qquad$

Jesssie halt-way up the stairs." what are yoing now ?" she cried wrathfuily.," "Up to some mischief,
With a sudden, inexplicable rage Hughie turned towards her.
mind your oun your business : mind your own business, will you,
and leave me alone." The terribie and leave me ulone. The terrible at "he lack of his rage.
" Just wait, you," said Jessie
. " till your mother comes. Then "You shut your mouth!", cried
Hughe, his passion sweeping his whole be'ng like a tempest. "/ You shut your mouth, you old cat, or $\mathrm{I}^{\prime} 11$
throw this candle at you raised the candle high in his hand as he spote, and altogether looked
so desperate that loset so desperate that Jessie stood in
terror lest he should make terror lest he should make good his "Stop, .. now, Hughie," she en-
treated. You will te setting the house on fire,"
Hughie hesitated a moment then turned from her, and going into his room, benged the door in her face, and Jessie, not knowing what
to make of it all. Went slowly down Lo make of it all. went slowly down-
stairs again, forgetting once more Robbie's stock ings.
. The old cat!
and Hughie himself. "She just satopped me was going to put it back.
The memory that he had resolved to undo his wrong brought him a curious sense of releef.
I was just going to "I Was just going to put it back, He was conscious of a sense of jury arainst Jossie. It was not his
fault that that mone fault that that money was not now "I'll put it back in the morning anyhow," he saic, firmly. But even as he spoke he was conscious of an
infinality in his determination infinality in his determination, while he refused to acknowledge to himsel
a secret purpose to leave the ques tion open till the morning. But his
determination deternination, inconclusive though it was, brought him a certain callu of
mind, so that when his mother came into his roorn she found him sound
asleep. She stood beside his hed looking
down upon him for a with face full of anxious sadness. ." There's somet hing wrond with the
boy," she said to hersolf to kise said to herself, stooping wrones with him,"," shere's something she leit the room. "He's not the coald not s.xllain. in He is no long "(1), Mnsance: $\begin{gathered}\text { He eats, well } \\ \text { Hen }\end{gathered}$

FEBRUARY 15, 1906.



 see to it that the policy of those
closenifted trustees is changed. anu not going to put up with those
clitits of girls teenching any longer.", There, may be somet hing in what
you say, said his wiie, sadly, ". but tuy at home from school, ," "And indeed, he might as well stay
home," answered her wust " Ior all the good he gets.", masban in
charge," wish we had a.good man in
replied charge,", replied his wife, with a
great sigh. It is very important
that these strong man over them. How much
it means to a boy at Hughic's time it means to a boy at Hughic's time
of life But so few are willing to
come away into the lickwoods here for so small a salary,
sucdenly her husband laid down
his pipe I have it!" he exclaimed. "The
thing ! Wouldnt't this be the
thing for sounk Craven. Wout
 tis wife shook her head very do "Not at all," she said. " Didn't
Professor, Grey say he was dissipated. just a little wild. Got going
with some loose companions.
Out
 said ham not at all sure of that, a would not li,"
Hughie to be under his inluence." "Grey says he is a young man of
fine disposition and oi fine parts, argued her husband. "and if tempta-
tion were removed from him he be
tieve lietes, he would turn out a good
man.," fully. Me is not the han doubtHushie under just now."
What are we to do with Hughie?" replied her husband. "He is get-
ting no good in the shool as it is,
and we cannot send him away yet, "Send him away !'" exclaimed. his
wife. No, no not a child like Craven might rea a very good
man,
mixht continued her husband.
He Milight perhaps live with us. I know
you have more than enoug to do
now,", he added, answering her look of dismay, "but he would be a great
help to Hughie with his lesson help to Hughie with his lessons, and
milght start him in his classics. And
then who Make of the young what , you might
IIrs. Murray did man ., husband's smile, but only replied, ". It mater with wish I bonew what is the
nould leane school for a white, wish he he could lenve school for a white," ",
ho. the boy is all right," said her husband, impatiently. "Only ${ }^{\text {a }}$
litlle less noisy, as far as I can see."
"No, he is not the same," replied his wife. "He is different to me.",
There was almost a cry of pain in
hir vice Now, now, don't imagine things.
Roys are full of notions at Hughie's
ace He may need chate

THE FARMER'S ADVOCATE

## About the House.

## cooking, a few vigorous whisk with

 will mix the curd and whey so tho:-oughly that it can be poured casily as cream, and will poured as at ate
unpleasantness of finding the cakes or murfins interspersed with partirles
of curd. Soda used with sour milk of curd. Soda used with sour mill sifted into the flower like bating
powder. powder.
Custard pies or puddings will re
quire cnly half the usual time for baking if the milk is scalded leciore
being stirred into the beaten eggs and sugar. Custard rudtlings and of baked if the oven is not in the
right condition. To heep the yolk of an agg frush
when only the white is to ie used when only the white is to be uscu
Make a hole in the shell large crough Make a hole in the shell large enough
for the white only to run out, then
stand the egg in an eggcup, stand the egg in an eggcup, thy
keep it in a cool place. The yolk will stay in color and we good for A pail of water standing in a room
that has been newly i'ainted
will quickly absorb the disugrueanle odor of the paint.
When knife-blades cone out of their handes, they may be easily mended by filling the hoie in the handle with powdered resin, and replacing the
blade after making its shaft redblade after making its shait reth
hot in the fire. When cold, the blade
fixed.

## Home. Pleasure, like charity, begins at home. To a man or woraan with no swect a man or woman

Syracuse Hot Salt Potatoes, - Boil the
vegetables in a rather strong brine
veretables in a rather strong brine, and
drain on a piece of cheesecloth stretched almost tight across the top of a pan
They will be covered with salt crystals and will be very mealy inside.
Pour large, Baked with Cheese.-Slice thin rour large, boiled potatoes, and arrange
in a buttered dish in lavers, sprinkling betwern the layers a little salt sprinkling per and three ounces of grated cheese. Over the whole pour two eggs beaten
into a pint of cream. Bako into a pint of cream. Bake in a moder-
ate oven about half an hour. Delmonico Potatoes.-Chop cold boiled potatoes into bits the size of a pea. Make a white sauce of one tablespoonful each of flour and butter creamed, a dash
of pepper, half a teaspoonful salt, and two cupfuls milk. When this has cooked until thick, add to each cupful of sauce a generous cupful of the potato and
pour into a baking-dish.
tered a moderate oven till they are a delicate brown.
Potato Puff.-Beat until creamy two
cupfuls mashcd potato, cupfuls mashed potato, a littleamy salt, and
two tablespoonfuls melted butter. Stir Ino tablespoonfuls melted butter. Stir
into this $t w o$ eggs, well beaten, and six tablespoonfuls cream. Pile lightly on a plate that will bear the heat of the ov
and bake till light brown in color. and bake till light brown in color.
Potato Croquettes. - Season potato with salt, pepper, and onion
fuice ; shape into balls, brush with beaten egg, roll in fine bread crumbs,
and fry in hot fat or lard. Occasionally and fry in hot fat or lard. Occasionally
make a little space in the croquette. partially fill with peas, finely chopped
meat or asparagus in a white sauce ; cover with potato, shape, and proceed
as at first described. as at first described.
Crisp Baked Potatoes.-Peel and quar-
ter the potatoes, place on pieting and world is, after all, but a battlefielc and some too rich to have a home. who had many residenceses a duhe "He had only one misfortune, and it was a great one he had no home. Still sadder is the lot of the suffer-
ing poor, where the fight with penury and misery leaves no pleasures or sanctities. With every complete sketch of happiness there ory of a coming table vision and the meme. Faraday, (writing from
Switzer land, says, "It is all very well to
come away from come away from home, and all very
exciting to the imagination to tak of glaciers, lakes, and mountains ; but the best effect of a departure
from home is from home is to make us value it as
it deserves." Southey universal experience when, in the memory of his journeys to and fro, he says: "Oh, dear! oh, dear !
there is such a confort there is such a comfort in one's old
coat and old shoes, and own fireside, one's own writingdesk and own library. 'Don't go to London, , papa; you must stay is the return when the journey in is the return when the journey is
over, and home is reached cnce Not without a reason is "home,
Nonsidered the sweetest word in the English tongue, fraught, for all who ever had a true home, with inefdale
music. 'The mother's welcome music. The mother's welcome. the
father's tenderness, the child's trust the fond "What ails thee ?" -[Se-
lected. -


The average weight of the brain of a man is hree and a hall pounds, and of
a woman two punds eleven ounces.
A man's brain is twice as large as that of an animal of like size.
The weight of the circulating blood in the body is twenty-eight pounds, A
each beat, the heart sends over nin
pounds of then pounds of blood through the verins and
arteries, and makes foar heats while you
breathe once The lungs contain about one hundred
$\qquad$
$\qquad$

The Celebrated Inglish Cocoa EPPS'S An admirable food, with all Ats natural qualities intact. thin excellent Cocoa maintain3 the system in robust
health, and, enables it to resist
winter's extreme cold.

A Young Man's face
 צibetwit and aina ahafyitith and Pure.


 Saylo Dopt. Fo. B02 Churoh Streat Toronto
CANADIAN
PACIFIC
$166,570,000$
 $5,884,800$ acres

## manitoba, Alberta

 and SASKATCHEWAN$$
\text { in } 1905 .
$$

Ficots and figures of practical interest to the "WESTERN CAMADA" \& "SETTLERS' GUIDE", Free upon application to

## Learn Dressmaking BY MAIL.

We pay our pupils after taking a course from \& or whole time, no matter where you live, in Address :ountry. Write to-day for partieulars. SANDERS' DRESS CUTTING SCHOOL Portratit of tho Late Bistiop Baitwotia


 WEDDIG
 12 womavis sprive suirs en.en
 outhoorr virimo.. Lonem. oan
 sired by imported toms from the best prizewin-
ning stock in America. Write for prices. W. E. WRIGHT, Glanworth, Ont.

 Tuisinise Threo ognts per word each ingertion










 TENANT WANTRD for A the diiry tarn TENANT WANRED for A Ant diairg farm on
 W ANTED-Active, experienered marrive mear






## POUKTRY

 aix




C CUYAHOGA FALLS, Ohio. A. Donaghy

















For Sale Two choice importiod $\mathbf{W m}$. Meharey, Russell, ontario

THE FARMER'S ADVOCATE
FOUNDEL
QUESTIONS AND ANSWERS. 18t-Questions asked by bona-fide subscribers
to the Firmer s. Advocate" are answered in
this department free.
 and must be a oom onparied of the paper only
and aduress of the variter by the full name



## Veterinary.

FILLY RUBS TAIL
Yearling filly has the habit of rubbing
her tail, and the hair is mostly all rubbed oif. Ans.-Give the tail a thorough washing with a scrubbing brush. Then rub well ress ceases, a lotion, composed of 40

## mare passes blood

Mare aborted in May, during the eighth ore abortion, and ever since, she has
passed blood, more plentifully when in Ans. A. McT. the womb or the ovaries. If the latter breed again. I would recommend that of water be flushed out with a gallon corrosive sublimate and heated to 100 iegrees, Pahr., the next timu she comes
in season. Then give 1 ounce tincture iron in a pint of cold water as a blood ceases to pass, breed her again;
not. I do not think it would be wise not. I do
breed her.

Miscellaneous.
flemitse rabbits wanted

```
Could you inform me of a breeder
```

Canada
saie ?
Ans.
Ans.-Any persons breeding Flemush
rabbits should note this query and ad-
skin mulk por matire catele
Is skim milk any better than water
attle over a year old?
Ans.-Skim milk has a higb feeding
value for cattle of any age. We know
dairymen who feed it to their cows in
bead of to hogs, claiming they thus get
better returns. It is rich in the bone
and muscle building elements, which are
found in abundance in bran, oil meal and
GOSSIP.
James Sharp, of Tweedhill Farm, Rock-
tide, Ont.. advertises Aberdeen-Angus
hibitor, but nineteen ane is not an of his own
breeding, and their calves. from aninat
breeding, and their calves, from anima
he bred, were shown the past season, a
of them taking prizes, including the
male championship at Toronto and
don; four first and two second at Eri
Township Fair. His herd was als
represented by six individuals of the
prize carload
prize carload of steers at Toronto Jund
tion Show, by first, second and third
prize winners in the Hereford
classess first for the Hereford and Angu
bred class; first for three export steer
first and chird for steer or heifer by An-
gus sire, and silver cup for best export
steer at Ontario Winter
The annual Provincial auction sales
pure-bred cattle of beef breeds, under th
auspices of the Livestock Branch of the
Ontario
or held at the following Alaces Gualph, Gill
Feb. 28th; Port Perry. March and. and
registered march 9th. Some 150 hen
ofered, and the Department undertakes
pay the freight-bill, up to
dent of Ontario to purchased bly a resi-
ination in Ontario. The ailm of an des-
dartment in holding thesc sales is to as-
semble live-stock within acress of small


$I^{F}$ you have any land to be cleared of either stum pp, rees or huah- - arge or emallTheyare adasa, machines in ine sizes, hey are adapted to all kinds of work. and will do it quickly and easily This sump machine is fully as great an improvement over theold so-calle Our mae work that you have been draad ding for vearg can no wer one with pleagur


Canadian Swenson's Limited,
Agents Wanted.
Kent St., LINDSAY, ONT

## Farm for Sale or Rent 180 ACRES

Situated on Con. 1, West Half Lot 15, and Con. D,

A FIRST-CLASS DAIRY OR GRAIN FARM AND LARGE ORCHARD.
 barns granary, implement shed, hog pen, henhouse, and ice hruse
Possession 1st March, 1906. Terms reasonable. Apply
Jos. Weld, Farmer's Advocate, London, Ont

TRADE TOPICS

will purchase Clydesdales in Shere h and also buy Hackneys in England. The hontreal, I dinita Rubber Company, of handsome trade calendar, size 22 inches by 15 inches, with a sheet for each month. On every page are displayed engravings of some of the company's most
noted rubber products, and this feature is very interesting, and quite novel so
far as the rubber companies in the Dominion are concerned. The date figures in the calendar are very large, and the
banking and other holidays are shown in hanking and other holidays are shown in
The company has issued many thousands of these calendars, put uap in
cartons, ready for mailing, and any busiess firm in the Dominion can obtann one by simply sending a written request to
either the head office, Montreal, or any of
the sales trand he sales branches throughout Canada. destructive fire

## THE POSTMASTER TELLS HIS SECRET

$\qquad$



His Health Mainly Due to the kilns.
Use of Dodd's Kidney Pills the
-ery costly machinery, the carpenter shop "ith its entire contents, the paint shop
and the plow shop are a mass of ruins.
Their large blacksmith shop was badly than His Seventy-Six Years and He heir large blacksmith shop was bad.
Glves the Credit to the Great Cana- time it can be rot ruined. In a short
dian Kidney Remedy. Tabucintac, Cumberland Co., N. B., order again. The loss, while extremely
 sixth year, but so bright and healthy unharmed, and this leaves the company in
does he look and so energetic is he in his an excellent position to ko right on and
movements that he would easily pass for suply the tor ten years younger.
". How do II keep young-looking." the there big warehouce, containing the enpostmaster says. ." Well, I attrinute it the fames, and at, was untouched by
larreely to my good health, and my the company it
healy Kidney Pills.
I first
learned

$\qquad$
$\qquad$ anney suls, wived wones in or ords


His faith shall not fail us ：
Christ is eternal ？
Diamond Dyes
 DIAMOND DYES，true home helpers
and money－savers for mothers and wives．
 galingh a share of the immense and ever－
incteasing trade held by the manutacturers incteasing trade held by the manuaracturers
of the DIM．NOND DYES，but all such
offorts will，as in the past，result in The crude and worthless dyes brought
ont ind opposition to the DIAMOND
IVY） $v_{8}^{\prime \prime}$ Copposition to the DIAMOND
can over become popular，for the
reason that they have not one of Canalda who were induced to bou
these aditerated packege yese now fin
them tead and worthless stock． The e rogressive and busy druggists an
deaners，of Canada sell only the DIA
Molt reputation of over twenty－five years．The
motern tnorchant has not the time or in less．．nd deceptive goods sale or worth

tar paper，labor noctude，about scs，
liauling material not counted in eitheer supplementina skim mix．
Am sending my milk to the ereamery
can
any of your readers
tell the the best can any of your reacers
thing to mix with the skim milk to seed young calves ？SUBSCRIBER． Ans．－Nothing would be more suitable
han than a small quantity of boiled ground
hassead．Well－cured clover hay should be given as soon as they will eat it，and
later on whole oats or crubhed corn and later on whole oats or crusbed corn am
oats，together with a little bran and oil oats，together wo much what one feeds，
cake． as the judgment a
feeding it，that tells．
somima arass gren memers
Would grass seed or clover seed be in－
jured if sown on the meadows at this
jured if sown on the meadows at this
time of the year，while meadows are bare ？A SUBSCRIBER． Ans．－There would be nothing gained by sowing this early，and we thipk that to the seed．If it were swelled out with the damp，we would fear the effect of
zero weather on it．Sow in March or early April，when there io lil lite s．sow＇lyy
ing and the ground is honeycombed with $\underset{\substack{\text { ing } \\ \text { frost．}}}{ }$

TOE－HOUES－PIGPEN
Would it be advisable to have a com－ partment large 2．Have a horse stable built of wood，
running advise building a pigpen on west side as a lean－to of cement，having a hall next to
stable with room overhead for bedding， pen to accommodate as a maximum two sows and twelve pigs，with room for feed－
bin ？
D，H． Ans．－1．If you have an elaborate and
costly ice－house，it might be well to have a compartment such as you speak of；but answers the purpose best）it（and such be dispensed with．An ice－house need not， and should not，cost much．Plant cedar pusts firmly in the ground so as to form
a square of say ten feet，three posts on each side of square，and extending up to plate ten feet from ground．Line up in ${ }^{\mathbf{3}}$ side． rough lumber．Root over as with inch sired for sake of appearance，being care－ and to have openings around the eaves for ventilation．Pack ice solidly，having
a foot of sawdust on all sides and on bottom and top．Simple，you say．Yes， houses are extremely simple． 2．We would not advimpe building pigpen
alongside of horse stable，as it would in terfere materially with the light and ventilation of the stable．In regerd to cement－concrete for pigpen walla，see
answer to similar question elsewhere．

## cossip．

R．E．White，Balderson，Ont．，is offer ing some Shorthorns，including two choice
young bulls，one of them a full brothe to the first－prize and highest－pri：ed caif
at Ottawa sale，1905． Mr．J．A．Lattimer，of Woodstock Clydesdale fillies，＂We have sold the
Flossie Kirk and W．Innis．Our enterprising importer to always has the price when the breedin and quality are right．We have also
sold six head of Shorthorns，five of were of the good old reliable family bred have been，with by Warden．These cattle make flesh very rapidly milkers，an A mong the bulls we are now offering fo Inp．Bapton Chanceller temily，sired by good in the herd of a farmer should do rilk and beef．We also have a Kinellar His fifth dam is min Bapton Chancellor every top cross is Mina 6th（imp．），and hould．This is a right good Scotch The other is the head of some good hend Lord Durn is Crulckshank Cecelia，by hy Warfare（imp．），dam Heather Blossom， （imp．），by Gravesend，who sired chath such at the Royal．Phouldil Parties in in need selling at should see these bulls．We prices，ar
 In Keeping a pure-bred bull for seir ice,
in order to lawfully collect' $\$ 1$ per cow in order to lawfully collect' $\$ 1$ per cow
served, will I have to place an advertise ment in our town paper, making known
the terms?
ONTARIO FARMER. the terms? ONTARIO FARMER. derstands the terms, no public adve
is necessary.
RNGNERR'S CERTIFTCATE.

## bnainekr's certificate.

 Where and how could I obtain a Govern ment certificate or license on engine-run ning ? We Are informed. there is noAns.-We are
Government license lasued for any except Government license
assued for any except
aarine engineers.
We would advise our corrispondent to write W. L. Outhwaite,
Executive Secretary Camadian AssociaExecutive Secretary, Camadian Associa-
tion of Stationary Engineers, Manning Chon of Stationary Engineers, Manning
Chambers, I2 $^{2}$ Queen St., West, Toronto,

## property in trebs.

 To whom do the trees in the highwaybelong, and can the owner of adjoining belong, and can the owner of adjoining
property cut and appropriate a dead troe to his own use? FARMER. Ans.-Such trees apparently belong to joining lands can hardly make use of the
tree in question as proposed without pertree in question as proposed without per-
mission from the munifcipal council. telephone wires crossing rallway We are having diffculty with the
Railway Company in making a crossing on a public highway at
and other places. We wish to cross over
their their track with our telephone line,
owned by farme:s of this section. They
tell us we cannot go over stop us
Ontario.

| HOLSTEINS <br>  $\qquad$ THUASDAY, FEB, 22nd, 1906 $\qquad$ $\qquad$ $\qquad$ <br> month old. tered by da Tepms <br> KELLY \& PORTER, <br> ELIZA O'MAHONY |
| :---: |
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|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  | Ans.-We do not see that you ca legally carry your wires across the rall

way without the company's consent Way without the company's consent, or
order from the Railway Commission.
Tres 1. What is the best means on sod.

 some subseriber can race recolumend how how then 2. How would rape do sown on soa
plowed this suyd ploved this spring, the rape to be sow,
last week in
lune or trret week of July
$\qquad$


HEIFRR PALLs To BREED.
I have a registered heifer that will be
three years old in June. She is in fair
order, and ran with bull all summer, but
failed to get in calf. She comes in heat
every three weeks, and bull runs with her. call.
Ont.
Ans-The trouble inay be due to
closure of the woml). A cure may be effected when she is in heat by oiling the
hand and arm, ins tring the hand into
the vulva and passing it forward untit the neck of the womb it felt. 1f the open-
ing into the womb is closed endeavor to cases the finger is not strong enough,
and a smooth, blunt piece of hardwood,
half an inch thick, can be used. Breed in about an hour after operating. It
would we well to get a veterinarian to at-
tend to the matter.
GEDING VALEE OF CHESS - PREGNANT
MARE BWEATS IN STABLE. 1. What is chess worth per ton for
feeding as compared with other grain?
In what proportion fed with the Wh what proportion fed with other grain?
What kind of grann is best to mix with
chess? What kind of stock is it best fed
sweats in stable
Her hind legs

chess. We may take it for granted,
however, that its feeding value is very
low, and I would not advise your corre.
spondent to feed it in any considerable
quautit,

$$
\begin{aligned}
& \text { bridged is too great, we fear, in the cas } \\
& \text { you mention. } \\
& \text { 2 Mape Should make a sery goo sum } \\
& \text { grouth on such land }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Grow in on such land. } \\
& \text { POWW YOR YARM PURPOBES. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { in this issue of } \mathrm{M} \text {. Boyd \& Co., Bob- } \\
& \text { caygeon, Ont. Look it up, if you are in- }
\end{aligned}
$$

poor richard Junior's philThe road to failure is full of ruts.
An ounce of to-morrow is worth a




The Quincy houbtar, rive warchen
 O"'POULTRY


 П $\$ 9,000$ Poultry Catalogue
 , mayy
No DISHONESTY INTENDED A young sport with loud hose and
Panama hat, a cigarette and a pearl handled ". parasol ". got off the eastbound and dropped into a restaured over town Street and ordered a vestaurant on Main water soon brought in the order you call that a veal cutlet? Why
hat's an insult to a calf to call that a
eal cutlo


## 令

Trow Mushroonanted porsons to at thei




CORRECTION OF ADDRESS note that the ar ADdress in Mr. W. J. should be Ceylon, not Ayton shorthor issues.

See the new advertisement in this issuo
of the Way Ear Drum. If you know of of the Way Ear Drum. If you know of
anyone that has difficulty in hearing, have him send to the above named frrm for
booklet, explaining the simple device that elieves the diffculty.

Yarties desiring to attend the disper-
sion sale of Mr. Geo. Herrington, will note that morning trains will be met on day of sale at both Brighton and

Hote the special thirty-day offer of Bogardus \& Co., Chemists, Guelph, Ont., New Zeatand Dip and Disinfectant with every bottle of Worthington's Stock advertisement.

Seefeld Sentinol (11.1524) is an imported Clydesdale stallion, bred by
 Eng., sire Montrave Suntinel (10094). He
is offered for sale by Robert Anderson,
Salford P. O., Ont. five miles Sallord P. O., Ont., five miles from Inger-
soll Station. Inspection or corre-

Attention 18 again called to the great
combination sale of straight Shorthorns, announced in last week's is-
sue. The date sue. The date of sale is March 14th,
1906, and will be held on the farm Mr. Stephen Nicholson, $4 \frac{1}{4}$ milles south west of the town of Parkhill (G. T. R. A ).
Further announcemen Further announcement next week. advertisement of Joseph Fletcher, of Ox Tord Mills, Ont., Kemptville Junction Station (C.P.R.), who announces a digper-
slon auction male, on March 6 , of his entire herd of 50 registered Holstein oattle, im-
ported Shire and Coach horses, work horses, colts and pigs, also his dairy
utensils and 3o0-acre farm. For terms and further particulars turn up the ad-
vertisement, or write Mr. Fletcher, mentioning this paper.
Douglas
writes : Thomson Woodstock, Ont.,
Trade in Berkshires very good. I have shipped pigs to most all parts in the Dominion, also to Quebec and the United States, and have received
many complimentary many complimentary letters from my
customers, expressing their satisfaction With the pigs they bought from me. I
wish to thank 'The Farmer's Advocate
me." for the business

TO OWNERS OF SAWMILLS, ETC. If you require anything in the line of
sawmill machinery, sawmills, planers,
matchers, matchers, wood saws, power axes, gaso-
ine engines, boilers and engines or stationary), grinding mills, etc., write before purchasing to the American Saw-
mill Machinery Co., 114-118 Liberty St. New York, for their catalogue of up-to-
date machinery. You are likely to find in it exactly what you want.

## $\xrightarrow{\text { P'. D. EDE'S HoLSTEINS. }}$

 the Advanced who follows the reco nadiand Anced Registry teHolsteln-Friesian
familiter nith

The Chatham Incubator and Brooder has created a New Era in Poultry Raising.
The setting Hen as a Hatcher has been proven a Commercial Failure.
The Chatham Incrubator and Brooder has always proved a Money Maker. A Lidht, Pleasant and Profit able Bustiness for Women


Any woman with a litile loifure timo at her
 Prihan you hato A friend whom is doftid ob



 Jufar omme in thit tut Hherr out poont




WE WILL SHIP NOW TO YOUR STATION PREIGHT PREPAID

## a Chatham

 INCUBATOR and BROODERYou Pay us no Cash Till After 1906 Harvest



CIS THIS PAIR?










 CHATHAM, CANADA The manson campbell co., Limited, Dept. No. I, Chatian, CANADA

| Joseph Rodgers \& Sons <br>  |  |
| :---: | :---: |

ADVERTISE IN THE ADVOCATE.

CLEARING THE LAND.-Every farmer who clears his land is simply avoiding waste and saving money. Weiry etomp
left standing is using valuable apact which should be raising money-producing which should be raising money-producing
crops. An up-to-date and easy way to get rid of the stumps is by the wase of Swensen's Malleable Stump-puller. This
splendid machine is made in dilerent. sizes splendid machine is made in dilferent sizes
by the Canadian swenen's, Kent St., Lindsay, Ont., who will supply you with their excellent catalogue is you ask for it. All farmera with stumpil on on machine.

##  IMPORTED HORSES， REGISTERED HOLSTEIN CATTLE and YORNSHIRE PIGS． <br> Woseph Flevcher，of Komptulle Junotion sta．（C．P．R．），Oxford mills TUESDAY，MARCH 6th，1906， <br> His entire herd of 50 head of registered Holstein catte，imported Shire and Coach horses． work horses，calts and pigs．Also his daliry utenilis and soo－acre Tarmo Re－  <br> THOS．IRVIMG，Auctioneer． <br> JOSEPH FLETCHER，Prop．，Oxiord Mills，Ont．

## 25 Pure－bred Shorthorns and Clydesdale Horses

 BY AUCTION，ON WEDNESDAY，FEB． 21.$$
\text { The property of FRAMK } 1 . \text { Bolton, Lot 15, Con. 2, pukington, on the }
$$





Temms 12 months＇omedit on approved joint notes THOS．INGRAM，Awotionear

DIDPEREEION BALE BY AUOTION
WEDNESDAY，FERRUARY 28th， 1906
 SHORTHORN CATTLE
 J．HICKs，

## Clydesdales

and Hackneys
dalgety bros．，Dunder．Sootiand and London，Ont．，have on hand just now
at their stables，Liondon，Ont．，a choice selection of above，including several prizewinners in this
country and scotland．All combining size and JAMES DAI GETY，Glencoo，Ont．

HODGKINSON \＆TISDALE
Breeders of High－Class Clydesdales and Hackney REAVERTON，ONT．

Our present stock of mares and fillies are the best lot we ever had to－
gether．Among them are ohampionship，first，second and third prize－ gether．Among them are ohampionship，first，second and third prize－ winners at Toronto．Our pri
something that will suit yo
BEAVERTON P．O．\＆STATION．Long Distance Telephone．


Clydesdales an French Coachers，Imp．

ROBT．NESS \＆SON，Howick
Clydesdales \＆Hackneys


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achute，Que．
NOTICE．
When writing advertisers please mention the Farmer＇s Advocate．
cossip
 Various ages，bred from a good m11kin
strain，ares advertised for sale in this sue of＂The Farmer＇s Advocate＂by Mr Geo．Lewis，of Bellymote，Middlesex Co，
Ont．，near the city of London．Look up Ont．，near the city of London．Look up
the advertisement，and write for prices， the advertisement，and write for prices，
which are moderate，quality considered． The fifth annual report of the Canadia Pony Society－Secretary，H．Gerald Wade Ottawa－has come to hand in neat book let form．In it we note that the past year has been a most successful one fur
the members of the society，the member－ che members of the society，the member－
ship having greatly increased． ship having greatly increased．There ha
been a marked increase in the demand for ponies，and it is hoped 1906 will show ponies，and it is hoped
still greater improvement．
Optimism is usually counted a goo with laziness．Some years ago antio tremely shiftless farmer was overtaken the last week of January with about
ten－days＇supply of fodder in tion ten－days＇supply of fodder in his bar
and no money to buy more．A neighbo condoling with him，asked how he thoug
cone he would make out．＂Oh，＂he replied，
resignedly，＂Jener resignedly
February February only has twenty－eight days，and in March there＇s always a little nippin＇

Mr．Geo．M．Smith，Haysville，Water
Ioo Co．，Ont．，writes as follows：＂Since loo Co．．Ont．，wirites as follows：＂Since
last writing，we have sold all our young Yorkshire boars ready for service，except one，which is a promising fellow，sire

by Summer Hill Dalmeny Topsman 2nd | by |  |  |
| :---: | :---: | :---: |
| Summer Hill Dalmeny |  |  |
| （imp．），dam Dopsman | Dalmeny Lassie（imp．）． | D |
| （ipite |  |  | spite the strong demand，and many or

ders filled，we can still offer a numbo of choice young sows，bred，due to farrow
in March and April， in March and April，also a number
younger stock of the improved type so much sought afte
packing establishments．＂

N．Dyment，Clappison＇s Corners，Ont
writes ：＂O Our stock is doing well ；th writes：＂Our stock is doing well；the
cows are milking well，considering the cows are milking well，considering th
length of time they have been in lacta－ tion，as we only have four that calved since the first of September．Any
of these would make a good record．The of these would make a good record．The
demand for Ayrshires never was better
inquiries coming firomer inquiries coming from every direction． have a few good young bulls，sired b
Dairyman Dairyman；have one from Barty
Princess，the cow，cut of which wa printed in＇The Farmer＇s Advocate，
Dec．14th，1905：also one from Nell Dec．14th，1905：also one from Nellie
Gray，Helen of Warkworth，Maggie Brown
and one from Briery Banks Susie，our old
test cow，and a first－class breder ；also some younger ones．I I also have a num
ter of cond ber of good females to soll，at reasonable
prices to quick buyers．＂ It Pase grove shorthorns． It was the pleasure of＂The Farmer
Advocate＂．field man a few days ago
have a Wave a look over the noted Pine Grov
herdd of high－class Shorthorns，the prop
erty of Senator Edwards． erty of Senator Edwards，at Reckland
near Ottawa，acknowledged to be second
to none in the world
$\qquad$
 Shorthorns world famous．made Scotch
Them foun
Wemfortably quartored in the m $\qquad$

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No weight
lift in attaching to the wagon． Pushes the hay forwarl on the wagon The one－man machine Send for ciroular．
THE DAIN MFG．CO．，
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SUFFOLK DRAUGHT HORSES


Write for particulars to
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Shire Horses


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nor overfeedine
for showing pur


 station：Althomp Park，L．\＆N．－W．Ry JOHN CHAMBERS \＆SONS， Holdonby，Northampton，Ensland F○IR SーエIコ

 Breadors＇Assoclation，of Wol－
lesiey．Will he sold lys tenders，which
will be recel
TUESDAY，MARCH 13th， 1906 JOHN GREENWOOD．V．S．．．President．Wellesley，ont
or E．．．RATZ Se．
CLYDESDALES
Imp．Stallions and Fillies．


Rock SAL for horses and cattle．in ton and
Car lots．Tonto Salt Worke．Toronto HANDSOME TROTTING STALLION
 DR．R．C．COATES，Thamesville，Ont CL，YDBSDAA1，HE Intw whd chade stanlions for sale．The choiees －4．



GREAT PERCHERON SALE


WM. PROSSER,

[^2]Dispersion Sale of Maple Lear
Percherons by Auction
WEDNESDAY, FEB. 28th,
at 1 oclock sharp, rain or shine. Sale to to held in
heated tent tat the farni Rig will meet all trains. Free lunch. On account of ill heath, we are offering our en-
tire stud of pure bloods and grades. numbering nearly


I. A. \& E. J. WIGLE, Props.

## 125 Percheron, Shire and Hackney

 Stallions and Mares.At the World's Fair at St. Louis I won more premier championship awards than any other exhibitor of live stock. I won every premier championship offered on Hackneys,
also every gold medal but one. At Chicago International, 1904, on 20 head I won 34 prizes, and in 1905 , on 19 head, I won 34 prizes, of which 19 were firsts, including 3 gold medals and 3 championships. I have the GooDs, and will save you $\$ 500$ to $\$ 1,000$
on a stallion. Come and see. Your own time of payment and guarantee of $60^{\circ} \%$. OFFICE: LEW W. COCHRAN, 607
109. South Wash- LEW $109 \frac{1}{2}$ South $\begin{gathered}\text { Wash- } \\ \text { ington Street. }\end{gathered}$ CRAWFORDVILLE, INDIANA. West Main Street. On Monon, Big Four and Vandalia Railroads, and Interurban from Indianapolis.


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INNIS \& PROUSE New importation of CLYDESDALE STALLIONS represent
such noted blood as: Baron's Pride, Hiawatha, Sir Everard, Up-totime, Pride of Blacon, The Dean, Prince
Fanntleroy and Lord Stewart. They were selected with Fanntleroy and Lord stewart. They were selectea wid.
great care; combine size and quality. They are an A1 lot. great care ; combine size and quality. They
21 head to choose from.
INNIS \& PROUSE,

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J. B. HOGATE'S

Shires, Clydes, Parcherons, Hackneys and Spanish Jacks,

 Percheron stallions and Spanish Jacks, many of
them prizewinners in England, Scotland and France. This is a gilt-edged lot and the best we ever imported. combining size and quality.
J. B. HOGATE, Proprletor. om

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QUESTIONS AND ANSWERS.
Veterinary.
Thatality
Three-year-old filly went off her feed. I
ave 5ave her a quart of oil on Saturday.
She did not show any pain, but breathed very heavily; ate nothing, and died on
Tuesday. I opened her, and everything was all right, except the stomach, which
contained many bots. Did the bots kill Ans.-The bots did not kill her. Bots oo of the stomach in large numbers and form into a ball, which obstructs the in-
testinal canal. From the symptoms testinal canal. From the symptoms
given, I am of the opinion that some of
ive the oil you drenched her with passed
lown the windpipe, and set up mechanical bronchitis, which caused death, and for
which little can be done. Carelessness which little can be done. Carelessness
in drenching is very liable to result this way. If a large quantity passes down
to the lungs, death takes place from to the lungs, death takes place from
suffocation in a few minutes. If only n small quantity, there will be more o
less disturbance, and unless the quantity be quite small it will prove fat
scours In Calves.
Give simple remedy for scours in
calves. They are fed separated milk in alves. They are fed separated milk in what clover hay they will eat, which isn't nuch. J. F. W. Ans.-Care should be taken in feeding
calves to keep pails clean, have milk calves to keep pails clean, have milk a feed too much milk at a time. If these precautions are observed, there is seldom any trouble with scours. The following
prescription is strongly recommended by a noted English breeder and farmer as a cure for scours in calves and also in oals and lambs : Powdered chatk, ${ }^{2}$ unces ; powdered catecha, 1 ounce ; gin-
ger, $\ddagger$ ounce ; opium, 2 drame ; pepper mint water, 1 pint. Give one table spoonful night and morning. It is best
to give a dose of castor oil first, and after the oil has passed, then the cordial,
which may be given for several days, if the scouring continues.
MISCELLANBOUS.

1. I have a two-year-old filly that arive two or three times each month
The remainder of the time she stands in The remainder of the time she stands in
the stall. There is a swelling on the outside of one hock. I have bathed it, and used a liniment, but it is littlo bet-
ter. Should I call a veterinarian ? er. Should I call a veterinarian ?
2. Horse is lame in right hind leg. I annot see any swelling or enlargement. He starts off lame, but soon gets all
right until after he stands a while again 3. A mare 22 years old has not bred for 15 years. She is in foal now. Will
there be any particular danger in parturition, and if so, can there be anyhing done to assist her or avert the
Janger ? ©. O. L. Ans.-1. This treatment tends to cause trouble in any horse. See that she gets lot or vard. If the swelling or in the disappear, it would be wise to call your veterinarian. If you do not get pro-
fessional attendance, blister the part. De tails for blistering appear in this number in answer to W. H.
3. This horse has an occult spavin Cet your veterinarian to fire and blister
him. 3. There is always greater danger in old mares that have not bred for a long Cime, than in other cases. All that can
be done is to see that she gets regular xercise, and is kept in fair condition. and watch closely, and if she has diffculty in parturitio
your veterinarian

Setters' bow Hates West The Chicago and North Western Ry
will sell low, one-way, second-class settlers' tickets, daily from Feb. 15th to April 7 th, 1906, to points in Colorado,
Utah, Montana, Nevada, Idaho, Oregon, Washington, California and British Columbla. Rate from Toronto to Vancouver, Victoria, New Westminster, B B.
C., Seattle, Wash., or Portland, Ore. $\$ 42.25$; to San Francisco or Los Angeles, Cal., $\$ 14.00$. Correspondingly
low rates from all points in Canada. Choice of routes. Best of service. For
full particulars and folders call on or write, B. H. Bennett, General Agenit, ${ }^{2}$


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 -

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 J. A. LATTIMER, box IT, Woodstook, Ont.

Clydesdales and Shorthorns


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

Smilre, Percherou, belgian and hackuey stalloms
Read our record at the great Intemational Show roeently held in Chiciago. We won the following prizes on Shire and Hackney stallions

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4-year-olds 3-year-olds
2-yearmolds
1st, 2nt, 3rd and 4th
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Aloo Champlon and Resemve Champion Heckney Statllons Cither breed, we respectfilly set all who saw them. Before buying a stallion of can save you monesp. Our prices and liberal guarantee will astonish your. Our record
in the show-rings is evidence that we then in the show-rings is evidence that we keep nothing but the best. Our barns are
full of prizewinners, and they are all for sale. We insure stallions against death from full of prizewinners, and they are all for sale. We insure stallions against death from Write for illustrated
September and November.
TRUMANS' PIONEER STUD FARM H. W. TRUMAN, Manager, LONDON, ONT.


25 Parcilerons, also Fronch Goachers, Hackney and Clyde Stallions



四
when Mackney and shire stallions bur


 Soitron



R. KEEVIL, Grampton, Ontario.

## IMPORTANT GLDESDALE $\overline{\text { SALE }}$

, FFE stock FARM, todmord
WEDNESDAY, FEB. 28th, 1906,

 or

ROBERT DAVIES, Prop., Thorncliffe Stock Farm

OUESTIONS AND ANSWERS Veterinary.

## lame pilly

Two-year-old filly stumbled on he
nees a month ago. She has been lam Knees a month ago. She has been lam
ever since when she trots, but nothing can be noticed when she walks. The
trouble appears to be in right shoulder Ans.-It is not possible to make a sai diagnosis 'from the symptoms given. The fact that she does not go lame except

when trotting indicates splint lameness | $\begin{array}{l}\text { but this would not be likely to be } \\ \text { caused by stumbling. She might easily }\end{array}$ |
| :--- | caused by stumbling. She might easily

sprain a sproin a muscle on the point of the
shoulder in this way, and as this muscle is mostly tendonous, there would be
little swelling, but there would be sorelittle swelling, but there would be sore-
ness to pressure and pain shown when the ness
leg is lifted and pulled backwards. Exleg and if soreness be found, either place,
blister with 1 dram each cantharides and biniodide of mercury, mixed with 1 ounce
vaseline of canthatides and vaseline. Clip the hair off; tie so that
she cannot bite the part. blister daily for two days; rub whell ofrat, and
apply sweet oil on the third day apply sweet oil on the third day, Turn
loose in box stall, and oil every day. if toose in box stall, and oil every day.
not better in a month, blister again.

infectious abortion
$\qquad$
$\qquad$ against abortion in a suspected herd?
2. Is there danger of unpregnant ?
or heifers or heifers becoming affected?
3. Will young calves carry the disease?
4. How should a bull that had been 4. How should a bull that had been
bred to diseased cows be treated?
5. Could a diseased bull infect cows by merely running with them? W. A. H.
Ans.-1. Of course the womb should not eet a little of the sooution, heated to in
年
00 degrees, into the vagina two or thren times weekly until the cows calve.
2. Yes.
3. It is quite possible for calies coney the virus fromible fiseused calves to healthy
animals.
4. He should not be bred for siv
$\qquad$
$\qquad$

## Hackney Stallion

$\qquad$

## Shire Stallion

## Desford Marquis (imp.), first at Western Fair, 1904 and 1905 , a proved sire of

 These will be sold well worth theMr. Chas. Garrow, Agent



Stack Food and Herbageu Herbageum is not a Stock Foo he manufacturers of Herbageum nonsense to ask the feeder to than the price of flaxseed meal for There is nothing in Herbageum mo. It contains on an animal's any form. It can, therefore no erfect, and if it is withheld never loses its there is no reaction. The object of $t$ the odorless and unaromatic wintion If an animal is on real good pastur then supplying it with the Nature is favor necessary to assure perfect diges A young calf can digest new mik A can digest separated milk just as well a quarter of an ounce pf thed there calves. This irated milk for every thred ing new milk, and the results are equalt columns the result we gave in theso hogs, made by D. C. Flatt \& Son
Millgrove opinion of a firm of merchants who tho aderis line. ALPIN CAMPBFLL \& SON reneral Merchants, Manufacturers of Ines
Cheese and Butter, Agents G.N.W. Tel Butter, Agents
and Postmaste
Oessrs. Beaver Mft., Jan. 25th, 1906. Gentlemen, - We have been selling Het the same article that it was at the be ginning, and we have had constant evi that is claimed for it. Just now the market is being flooded with Stock Food
that are advertised to do the things tha Herbageum does, but the usual result of turn to Herbageum. It is an incontest ket in its line, and the probabilities ar present will still be with us when its past. This has already happened a spects other Herbageum competitors, and
the indication The Repository BURNS \& SHEPPARD PRops.

 Horsos, Carmiagos, Busgiles, Harnose
eto., very Tuesday and Friday, at 11 o'clock Epeciel Sales of Thoroughbred Stock conducte Consignments solicited. Correspondenoe
will receive prompt attention


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Importors of : 11 HACKNEYS and CLYDESDALES
ont of atook always on haind for sall. New importation of Royal winnors funlted States.

Ebruary 15, 1906 THE FARNER'S ADVOCATE.

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WM, HENDRIE, Hamilton, Ont
 imported bull, Magistrand. This stock., tsotrong. booned, hardy con-
stitution, and have just lately been taken up from pasture field. Fifty fall-farrowed Large Yorkshires, three months, young
sows. Your choiee, three for $\$ 15.00$. Alove stock reasonable in price
to

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A. SUMMERS,

Manager, Hamilton.
Supt., Aldershot P.O





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iotay durring the 28 years that we have





 Ions that was ever shipod from the old
Country, and he tis certant tom owner and the tarmerer int that to part iof is but about threo weaks sinco 1 receilve noust conagnment of horese, 1 , fnd that
nust tap the wire
axain tor mor
ingleside herefords
 pron, Que., is too well known throughoul
ton the lensth and breadth of this continenc
 prizes at the leading Conadian shows and representing the blood of England most noted sires, such ar Rupert, Cor
rector, Anxioty, Grove 3 Srd, Horace wranoe, Euroke, Horatlus, oto, the bulk ot the breading cows being importod from
the leanding herras of
Enition ail the reat the set of imported and iseanis dams. Tho herd at prosent nirumber ome 76 head, at the head of whieh it Bourton of ITgiceside, a son of the might
 Euraka, and out of Imp. Lady Bountifu
by Bourton, by Lord witon.
Ho is now tour years olad has been ohown over since

 notad bull Corrector. aro tho aires of
nobut 20 heilers trom one to two yeare of age, and nine bull, from six montha
ot
two years of ageo that are tor tale
 ot Mr. Norton, the herdeman, aro in Ano condition.
wм. smithes shorthorns.
Few men are bettor known among pure
bred stockmen in Canada than $M \mathrm{Mr}$. $\mathrm{w}_{\mathrm{m}}$ Smith, of Columbus, ont., as an importer and breeder, and a first-class judge oa
Clydesdele horses end Shorthorn cattl For a great many years his herd of Wed and Kilblean Beauty Shorthorns have held a high place among the leading herd of Canada. At present the herd repre
sents the get of such noted sires as Duk (imp.), a son of the great Roan Gaunt let; Rosebery (imp.), a son of Perfection
Bright Light,
a Light ; Royal Bruce, a son of Imp. Northel Member, and the present stock bull, Imp. by Count St. Clair, dam Beauty 18th, by is a bull of great scale, very heavily feshed, deep quartered, and would make it interesting in the ring with the best of them, and what is better, he is an ex-
cellent sire, his get coming thick, straight, smooth and even. Among the younger ones are about a dozen heifers
that show up well, a typical lot, which are for sate : also five yearling bulls an about the same number of younger ones
The older ones are: Meldrum, by th present stock bull, and out of Imp.
Daviot Beauty : a Kilblean Beauty, by Craibstone, dam by Touchstone ; Dunde St by Brooklin Boy, dam a Wedding Gift
Straithben is by the stock bull, dam Strathallan-bred cow; Kinloss is also by the stock bull, and out of a Wedding Gift and Wedding Gift bred. by Brooklin Boy exceptionally nice lot of young bulls, of
a kind not seen every day, and should
soon be picked up at the prices asked. Write Mr. Smith to Columbus P. O. th.


Shorthori Cattle and Llineoli Sticep shorthorn bulls, cows and heiletry for sale at greatly reduced prices for the next 60 day

## J. T. GIBSON, Denflold, Ont.

## Scotch Shorthorins


Et, Roblison, Martian Sta, in P. O. varn Fithin town Minh

## SHORTHORUS


 Remales have been carpatuly eleoted and orior PETTER WHITE, JT., Pombioken ont PEARGROVE SHOŔTHORNS \& SHROPSUIRES We are now offering 20 Shropshire ewes, one and two shear, imp. and from imp. stook, e big. brong, well-covered lot; also a few Shorthorn
heifers. No fancy prices asked, for ouiok asles T. H. MEDCRAFT \& SON, sparta P.O, HIGH-CLASS SHORTHORIS,
 Present offerings: two bulls seven months old,
and lemales of difererant agees. Also for thlo.
Clydesdele mare and foal. N, S. ROBERTSON.
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Shorthorns and Clydestales


JAS. Moartitur, Goblos, Ont.
Shorthorns, Coiswolds, Berkshires

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 Shorthopns $\underset{\substack{\text { FOR } \\ \text { SALE }}}{ }$


M. K. Falisanirm, - Theotrord, ont SHORTHORNS FOR SALE
 bull, ne monthas old. Pricos Hugh Thomson, 566, 8t. Mary's, Ont P SHORTHORNS at reasonable
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Jonnoxylle. $\qquad$
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Scotch Shorthorn Bulls
Bue four from imp. congs. Good enough imp bulls
feaders. Apply herr Arookdale P. O. and Telepho SCOTGH SHORTHORNS.
RIVER VIEW STOCH FARM


- . J. ROWNZND, Dumblane, Ont. SHORTHORNS AND LEICESTERS 4 extra choice young bulls ready for service 4
Also bull calves. all from imp. sires. Lieicester
ewes and lambs of both sexes for entle Addrees

Shorthorn Bulls $\begin{gathered}\text { I have for sang two goo } \\ \text { young } \\ \text { SHORTHORN }\end{gathered}$ $=40424=$. Come and see, or address.
 Young bulls for sale, sired by spectator, imp
Prices reasonable.
$A$ p ply JOHN MoCALLUM, Springbank Stock Farm
M. C. R. and P. M. R.
Box 91.
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some ocws and heifers, and prizewinning Berk ISRAEL GROFF. Alma P.O. \& Stn., G.T.R Shorthorns ${ }_{\text {Kinellar }}^{- \text {Will ser exchang }}$ Stamp, $m$

 Plum Grove Stock Farm. $\quad$ Baden Station Present offiering: A few Scotch-bred heifers.
ired by Scooti's Choice $=43670=$. For particu ars write to
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bulls and heifers.
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fered. Prices moderate.

A. EDWARD MEYER Box 378. Guelph, Ont 8СOTOH 8HORTHORNS

 EEORGE D. FLETGMER, Brealor of
Sootch Shorthorn Cattle Herd heal English Yorkshiro swine

 Binkham P. O., Ont. Erin Station and Tel. Valley Home Stock Famm SHORTHORN BULLS and some choice females. Also 25
Borkhires of diferent ages bred
Brom show stock, and of prolifc strains. Trom show stock, and of prolifica, strains.
J. PEARSON, Sow \& Co., Meadowale. on
Stations-Streetsville and Meadowvale.
 SHORTHORNS, CLYDESDALES $\begin{gathered}\text { cotswolds }\end{gathered}$ Present offerings: Choice young bulls and
heifers. Also a few good young cows. Apply. to dOHN E. DISNEY \& SON,
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$1884+$ MILLHURST FARM +1908 SHORTHORN CATTLE

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Straight Scotch.
HUDSON
Eootoln ahomion -

W. J. Shean \& Co
11. SHORTHORN BULLS 11

Five imported, six from imported sire.
and dam. Highest fuality, lowest price.
I have also an interesting proposition in
ROBERT MILLER - Stouffville, ont. len Gow Shorthorns- is present offering



wir. stewart \& son's ayrshetres Genial Willio Stewart, of Menie, Ont.,
necids no neads no introduction to readers ot "Tho
Farmer's
Advocate": neither does his herd of 40 head of ingightlase Aysshirices need any words of praiso in theso columns. For Years his well-known herd
has been exhibited at the
teading Canal
 s.are of the coveted honors. To-day, in
their comfortable new stables, they are in
prime condition many of thes prime condition, many of them milking
very heavily. The stock bull, Rob Roy,
very lant, dam Edana, with. a milk record of or 55
lbs. of 4 milk, by Castle Doulras, is in in grand fettle, his show record is one al-
most untroken record of successes ; his
grandam has and grandam has a milk record of $65 \mathrm{lbs}$. . of
$4.03 \%$ maik per day.
tob
Roy

james a. cochrane's shorthorns
One of the oldest established . herds of
Shorthorns in Canada is .. Hillhurst


GHREDENGHLLIL HHRIRD
SHORTHORNS

d
We offer for sale 19 bull calves,
\& yearring bulls, a nuubber
them from importe

 R. MITCHELL \& SONs. Nellan P.O., Ont.i Burlington Junc. Bta. R. A, \& J. A, WATT, shlem P.o. 13 miles north of Guelph,on the G.T.T. \& C.P.E. tiolared's Royal, winner at Chicago Interna
tional, first at New York State Fair, first at Winnipeg Industrial, at head of herd. Can sup.
ply cattle to suit any order. We also offar a extra fine Clyde filly, rising three years, and KENWOOD STOCK FARM.

SHORTHORNS.
 bred cows, for sale orshoioe Lindolna home
Berkshire and Tam worth hoge offered. $\frac{\text { haining bros., Highgate, Ont. Kent co. }}{\text { Divorvigum Shorthorns and (0)fords }}$ shorthorns rapresent Crimson Plowers,
Athelstanes, Lady Janes and Rosear. We have for saie dight bulls, including our stook
bull, four yearlings, and the balance calves: alko \& fow one. two and three yaerolld healifers
A thiok, straight, moesy lot. Also some epring A thich, straight, mosey lot. Also some apring
and one- year-old Oxford rams. GLENAVON STOGK FARM
Shorthorns
bulls for sale. Prices right. Station, ROBERTS, Sparta P. O Oak Grove Shorthorns $\underset{\substack{- \text { Present } \\ \text { Several }}}{\substack{\text { offering is } \\ \text { imp. }}}$ males, several heifers and several young bull
aill sired
 a choice offering. Prices rinht
W. ISAC.
Co. Northumberland. SCOTCH-TOPPED SHORTHORNE
 H. GOLDING \& SONS, Thamesiord, On SPRING VALLEY SHORTMORNE Imp. Bapton Chancellor $=40250=($ ROOQ
 KYLE BROS., Ayr, C.P.R.I Parle, G.T.R For Shorthorns $\begin{aligned} & \text { Four young bulls, from } \\ & \text { Sale: } \\ & \text { to } \\ & 15 \\ & \text { months old } \\ & \text { als }\end{aligned}$
 The Cedars" BELL Stock Farm. BR. d, Ont IMPOIf for salc TED SHORTHOIRN
 SHORTHORNS AND DORSETS 3 bulls, seven to nine months old : also a few
ewe lambs. and ewes in lamb for sale. Prices
reesonable. Mapleylew Farm. RARDING, Wm. Grainger \& Son. Hawthorn Herd horns. Aberden Hero (imp.) at heod of herrd
Eirhtgrand young bulls by Prince Misty $=37884=$
Prices reasonable

Londesbomo sta, andil P.O.
For Sale - Three shorthorn bulle, two 20
umvir (imp.) heands the he herd. 9 months. Tri-
Whitechurah P.o. and Station

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We've just issued it 12 -sheet, 22 -inch by 15 -inch Calendar, good It's somewhat different to anything hitherto, published or disWe've planned it for practical men. It's got big date figures,
large enough to read without glasses, and shows banking and other Primarily it's a Rubber production, and a good one
On every sheet are illustrations of our many and varied products And the "date" feature is so prominent and practical that you'll
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 JOHN DRYDEN \& SON, Brooklin, Ont
 shorthorns and lincolns. $?$
0




## SHORTHORNS



 CLEAR SPRING SHORTHORNS
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Imp. Spicy Broadhooks at the head of herd.
Young bulls from 6 to 11 months old, females
of all agese
Prices reasonable. Call or write
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Scotch and scoith-htooped shorthorns, Lincolin and


SCOTCH-TOPPED SHORTHORNS ers. W H. WALLACE,
woodland
Parm,
m.

9 heifers, yearling
29 heifers, calves 4 bulls, yearling 6 bulls, os

All out of imported sires and ams
Prices easy. Oatalogue. John Clancy, H. CARCILL \& SOl, Maple Lodge Stock Farm. An excellent lot of shorthorn bulls and helfers for sale now. Have choice milking
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A. W. SMITH. Maple Lodge, Ont. T. DOUELAS \& SONB, SHITRTHORHS and CLYDESDALES

 wine Grove Stock Famm. High-olaes Breoters of hoice Shropshire Sheep, Clydesdale and Hack
ney Horseb. Herd catalogue on application. Address:
w. wr Luson, Supt. Rockland, C. W. WILSON, Supt., Rockland, Ont.
W. C. EDWARDE \& Co., Limited, Props. on
S. Shorthorns $\begin{aligned} & \text { For } \text { Sale -Two choice red year } \\ & \text { line bulls, from imported sire end }\end{aligned}$ dams; also fimales of all arges. Scotland'g
Fame (inap. at head of herr.
ALEX. BURNS. Rockwood P. O. and Station, G.T. MAPLE RHLLL SCOTCH SHORTHORNS fr best families. Herd headed by the grandiy
red Lavender bull, Wanderer's Star $=48685=$. A fow choice young bulls.
Box 426 . WW. R. Elulot as sons, Guelph, One BONNIE BURN STOCK FARI Ofiers Soctoh and Scotch-copped bule
ows man heiferss 50 Shropshire rams and ewe  Whllow Bank Stock Farm I Established 185 hp. Rosierucis
cossip
Illustrated in this issue of "The Farmeer's Advocate" is the noted champion
draft stallion, Young MacQueen 8033 [2290], foaled in May, 1894, bred by R. B. Ogilvie, Madison, Wis.; second owners, Graham Bros., Claremont, Ont.; sire
MacQueen (imp.) $\quad$ [462]. owned by the Wellesley Horse-breeders be sold by sealed tenders to be received up to March 13th, 1906. Correspondence
should be addressed to John Greenwood, V. S., President, or E. E. Ratz, Secre-
tary and Treasurer, both of wellesley. Young MacQueen is so well known as hardly to require description. He is a conformation, cuuality and action in keeping with his excellent breeding.
holstein official tests
Since last report fifteen cows and
heifers have made official tests sufflient to quality them for admittance to the
Canadian Holstein-Friesian Record of Merit. All the tests replorted were made
under the supervision of Prof. Dean, of the Ontario Agricultural College, and he correctness is vouched for by him. actual; the amount of butter ts estimated fat, according to the rule adopted by the
Association of Agricultural Colleges and
Experiment $\begin{array}{lll}\text { 1. Tidy } & \text { Pauline DeKol (352), at } 4 \\ \text { yenrs } 7 & \text { months } 17 \text { days; milk, } & 465.6\end{array}$ yenrs months 17 days; milk, 466.6
lbs.: fat 17.23 hiss, equivalent to 20.10
los. butter. Owner, H. Bolltert, Cassel, Ont. Adelaide Brook DeKol (5278), at
2. 6 years 10 months 27 days; milk, 438
libs.; fat 17.12 lbs., equivalent butter 19.08
lbs. Owner, Geo. Rice, Tillsonburg, 3. Canary Starlight Lass:e B. (3960),
at. 4 years 10 months 12 days: mill at 4 years 10 months 12 days; milk,
409.8 lbs.; fat 16.08 lbs., equivalent butter 18.37 lbs. Owner, Geo. Rice.
4. Belle Dewdrop (4038), at 4 years 2 4. Belle Dewdrop (40s3), at 4 years 2
months 11 days; milk, 402.1 lis.; fat
16.00 fbs., equivalent butter 18.67 lbs. Owner, Geo. Rice.
5. Inka Josephine Abbekerk (2565), at 5. Ynka osephine Abvekerk (2565), at
6 years 21 days; milk, 460.3 lbs.; fat
15.07 los., equivalent butter 17.59 lbs. $\begin{array}{cc}\text { Owner, W. W. Brown, Lyn, Ont. } \\ \text { 6. Empress } & \text { Josephine of Brookside }\end{array}$ 6. Empress
(2019), at 10 yesephine of Brakside
milk
 7. Winnie R's Countess (4495), at 3
years 2 months 16 days ; milk, 375.6 lbs fat 14.04 lbs., equivalent butter 16.88
ibs. Owner, Geo. Rice. tbs. Owner, Geo. Rice. at $3^{3}$ years 9 months 19 days; milk
449.9 lbs.; fat 13.22 lbs., equivalent but Beachyille, 15.43 Hos. Gwner, Robt. McGhea 9. Clothilde DeKol Waldorf (4409), at
8 years 1. month 29 days ; milk, a88. liss.; fat 12.45 lbs., equivalent butter
14.53 lbs. Owner, W. W. Brown. 14.53 lbs. Owner, W. W. Brown.
10. Car Born DeKol Brd (4410), at 3
years 1 month 6 davs: milk 872, years 1 month 6 days; milk, 372.7 libs.;
fat 12.00 lbs., equivalent butter 14.00
the tbs. Owner, W. W. Brown.
11. Boutsje Pietertje DeKol (6093), at 2 years 9 months 4 days; milk, 320.3
ibs lbs.: fat 11.52 lbs., equivalent butter 13.44 lbs. Owner, Geo. Rice.
12. Calamity Jane 2nd's Posch (4970), at 2 years 7 months 23 days ; millk,
829.9 lbs.; fat 10.55 lbs., equivalent but. iter 12.31 lbs. 10.55 lbs., equivalent but- Geo. Rice. 8 years 5 months 29 days ; milk, 847.0 lbs.; fat, 10.21 lbs.., equivalent butter 11.92 lbs. Owner, W. Rivers, Folden's
Corners, Ont. 14. Princess Calamity Posch (4820), 834.9 lbs ; fat 9.97 lbs , equivalent but-
ter 1.1 .63 ihs. ter 15. Clarice Clothilde 2nd (4972), at 2
vears. 3 months 26 years 3 months 26 days; milk, 227.3
lbs.; fat 8.08 lbs., equivalent butter 9.43
lbs. Owner, Geo. Rice ibs. Owner, Geo. Rice.
Thirty-day test.

1. Sara Jewel Hengerveld (4407), at
4 years 2 months 25 daye. 4 years 2 months 25 days; milk, $2,4553,3$
bs.. fat
78.22
bbs., equivalent 91.27 lbs. Owner, W. W. Brown.-G. W.
Clemons, Secretary.

## Are Your Nerves in Health ?

## study here the indications

## Dr. Chase's

Nerve Food. It is surpiising what hosts of people
are suffering as the result of an ex austed nervous system and do ne nature of their ailment. They camnot sleep at nights-are rest lempers a're easily 1 rritated-litule thing worry them-they cannot concentrate thei
minds, and find their memories failingthere are spells of nervous headache-th digestion is impaired-pains and aches a neuralgic nature attict them-feelings discouragement and despondency com
over them at timies, and they get in th way of looking at the dark side things. will be interested in Dr. Chase's Nou Food, for this great food cure gete a
the very foundation of nervous troubles the very foundation of nervous trouble and cures in the only natural way, by
enriching the blood, revitalizing the wasted nerye cells, and buildingy up the system generally:,
Diseases of the nerves take different forms in different people, but the
slowly and surely lead to nervous pros tration, locomotor ataxia or paralysis
to weakness and helplessness of miind and hody, Chase's Nerye Food acts strictlyy in
Dr. nccordance with the laws of nature in you can use it with positive assurance fit to you. Hirove this by not'ng your increase in weight 50 c . a box; at al dealers, or Edmanson, Bates © Co., To


## ARTHUR JOHISTON

Greenwood, Ont.
Offers for sqle, at moderate prices, 12 high-
class yearling bulls, all sired by imported bulls, and most of thom fro a imported dams Also imported and home-breá cows ahd
heifers of all ages. Y月S
AYFSHIRES AND YORKSURES

 - ALEX. HUME \& CO., Menie, Ont. AYRSHIRECATTLE


 SHANHON BANK STOCK FAMT ron AYrshines and YOhKehine W. H. Tate from imported soxes for W. H. TRAN. - Codar Grove. Ont. AYASHIRES FROM A PRIZ' WIMMING NERD Have some nice bull and hairer alves for sale at
reasonable prices. For pertioulary, otc., Witte to Adverisos in the Adrucat


## AYRSHIRES

The famous Reford Herd at St. Anne de
Silir Williame., now owned by Several yoarling bulls for sale;
also a number of bull calves, also a number of bull calves, Quality and appearance extra good,
bred from the best milking strains, noted for robust constitution and Large teats.
For particulars apply to
MACDONALD COLLEGE St. Amne de Bellevue, Quebec.
AYRSHIRE BULLS
 Syar: alioo one May and soveral Auguty aalvea

w. w. ballamtyne, stretford On

Ayrshire Bulls For Sale 12 Ayrshire bulls one to
two years
ing stock, both by brad from deap nilik and dam Pric reasoch, bothe by sire and dam Prich
nemection solicitespondence and
w. Owens, Monte Bello, Que

Trout Run Herd
of Prizewinning
AYRSHIRE CATTLE For sale: One choice yearling bull, 845; bull
calles. from dams with milk records from 50 to Githe of milik per day, from $\$ 3$ to $\$ 40$ each
high-lass dairy and and exhibition cows and heifer
from 865 to 875 each



| Lroot Run Stock Farm. Lynedoch, Ont |
| :--- |
| SPRINGBROOK AYRSHIRES | Averasea nearry fool los, of milk last year, te six months, also females for sale.

p.o. Box 101. Ajrsilire Cattle, Shropshire sheep, Berkshir pingtons. Young stook for sale. Maple Cuif Dairy and stock Far CBtele, Br or Clydesdale Horses, Ayphire
 AYRSHIRES-Choice stock of either sex, dif
 Brampton Jersey Verd-We have now for im rambert or imported stock: also form



Nighgrove Jersey lierll is Eur proent offering

 $\underset{\substack{\text { An extran nice } \\ \text { yearling }}}{\substack{\text { Jemsey Bull, } \\ \text { fit } \\ \text { vice. } \\ \text { for } \\ \text { ser } \\ \text { Als }}}$ F. S. WETMERALL, - Rushton Farm IMPERIAL STOCK FARM HOLSTEINS
 Grove Hill Holsteins ${ }^{- \text {Herd contains } 55 \text { head }}$ in the advanced registry. Our stock bulls have

 | o F. $R$ imallory, Franklord $P .0$. and Sta.. C.ORB. |
| :--- |
| With Cheese at 12hc. and Butter at 25c. |

Buy a Holstein Bull
 Right in Price. Order early if you want one
G. W. CLEMONS, ST, GEORGE, ONT HOLSTEINS AND CHESTER WHITES OLSTEINS AND CHESTER WHITES,
Oung balstioinsare producers and prizewinners

MAPLE GLEN STOCK FARM Can now offor one yourock FARM, bult, born las
goring, and four bull calves, born in Aug, Sept
and oct., from gelect cow

 | male in the herd can be secured at the ir value |
| :--- |
| o C. Gilloy \& Son, Glon Buell, Ont |
| GLWNARCH Y | "G LIGNARUHY" HOLS'INEINS

 C. MCINTYRE, Renfrew P.O. and stan CENTRE VIEW HOLSTEINS
 SPRIN
SPRINGBROOK HOLSTEINS \& TAMWORTH
Two choice bulls, 11 and


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A. C. Hallman. WaturlonCo.,Breslau, On'
```

QUEEN CITY HOLSTEINS

Holsteins at Ridgedale
 Makes cows Barren Cow Cure.
lond
bored
L. F. SELLECK, Morrisb

## Many Women Suffer untold agony from kidney trouble.

tblegraph. telbphone and trees. Can telephone or telegraph company
cut the limbs off shade trees on the road side, either on road allowance or off ?
Ontario.
MONAGHAN. Ans.-They have the leg
so, if absolutely necessary.
WANTS TO KNOW ABOUT CEMENT FENCE Did any of your readers have any ex size were they? What shape? How long? How strong of cement do they have to
be? How are they fixed for staples for the wire? Should they be pointed on the bottom to prevent heaving with the
frost ?
pediaress of stallions.
about a stallion called Shenaw and also about one called Hermit, and their breed-
ing ? Ans.-You do not say of what class,
whether whem the names they are either Thorough-
from
bred or trotting stok no records in our library
heifbr does not come in heat I have a heifer, two years and five
months old, that I have never been able to breed-big, strong and healthy, and and
tot overfed. Is there anything I could give her to bring her in heat ?
W. W. Y. Ans.-If the heifer was twinned with a
bull, she is a "free-martin," and may
never come in heat never come in heat, as the great ma-
jority of such never show signs of costrum. If she 18 not of that class, you might try the following, which has
been recommended by a breeder, who claims to have proven it effective: Take a piece of dried rennet, half the size of a
man's hand, steep it over night in warm water, cut into small pieces, sprinkle with salt; mix together with the water in
which it has been steeped with meal or
bran. Feed to the heifer, and repeat in a week.

VENDOR AND PURGHABER
tions: A does not take the farm of
B's hands till following March. $B$ want to get rid of it in one month from date taking the place at once, and giving him says no. I will give you three loads o
hay in the wind-row that does not come for that year, 1905 .
$\$ 25$ fow,
$\$ 1$ all things on the premises as they were
when A bought. When A came to the ront of the house for twenty yards.

1. Can A collect damage for fence?
2. Can B collect pay for plowing, when
he did not come and pet hay $\begin{array}{ll}\text { agreed? } \\ \text { Ontario. } & \text { J. K. }\end{array}$
Ans-1. Not unless the breaking down

Crippled pigs - feeding colt.
Nery of ten they think it ha from eo-alled Female Disease." There is less fomale truuble aleeplessness, nervousness, irritability, back dragging-down feeling in the loins. So do men, and they do not have "female trouble." Why,
then, blame all your trouble to Female Diseane With healthy kidneyn, fow women will ever asve "emale disorders." The kidneys are so
elosely oonneeted with all the internal that when the kidneys ro wrong, everythin soes wrong. Much distress would be raved if
women would ouly talte

## DOAN'S KIDNEY PILLS

Prioe 50 cents per box or three boxee for 31.28, all dealera or sent direot on rooesipt of price. The Dran Kidney Pill Co.. Toronto. Oal.






Seven miles from In. GEORGOE,
ANMAMDALL HOLSTEIM HLRD

 Prina boan camimy


 You don't draw a blank in purchasing a bul rom such sires and such dams as are kept at
nnandale Stock Farm, Tilsonbures ont. GEO. RIOE, Prop.
RIVERSIDE HOLSTEINS


 Caledonia, ${ }^{\text {mater }}$ RIChardson \& Son, , WOODBINE HOLATEINS


 A. KENNEDY, Ayr, Ont.

Lyndale Holsteins For Sale

Hol sull calvas frou
 MAPLE GROVE HOLSTEIN-FRIESIANS Horitile Clilanitw, and waLburn rivers. Folden's corners.
 Sheep and Cattle Labels 5 In inv and cattle Labels.


BEEKSHIRES
H．M．VANDERLIP，Gainsville，


HILLGREST HERD OF ENGLISH BERKSHIRES
 Vine Sta．．G．T．B．．n near Berrie． JOHN LAHMER，VIne P．O．，Ont．
Shropshilie al Cotswold Sheep｜W，W．CHAPMAII，


S and CLYDESDALES
Choice ram and ewe lambs．Also
50 shearling ewes for sale．Apply

JOHN BRIGHT， Myntle Station，Ontario． For sale：： 25 ewes in lamb to the im－
ported rams，Babraham Hodge，Pattern

응工工工或 Puppies by imported New York Show
Winner．Wishaw Hero，out of noted
prizewinning dams． prizewinning dams．
ROBERT MOEWWEN，Bymon，ontario FA If V I C W SHROPSHIIRTC8



 Falryiew Farm．o Woodville，Ont．
BROAD LEA UXFORDS．
 A number of nice Barred Plymouth Rock
cockerems at reanonable prices．

Correspondence promptly answered． | $\begin{array}{l}\text { R．R．Stations：} \\ \text { Mildmay，G．T．R．}\end{array}$ | W．H．ARKELL， |
| :--- | :--- |
| Ther |  | Teeswater．C．P．R．$\left.\right|_{0}$ Teeswater，Ont．

DORSET HORN SHEEP and SCOTCH SHORTHORNS

 North John A．Mogillivray，
Inח Shropshires 100 （3）

Secretary，of the National sheep
Breeders
Searetary of the Kent，or Romney，
and late Socretary of the Southdown
Sheop
Bociety．
Pedigree Live stook Adent，Epporter on oommisilon；quotations iven． on eommuilision；quotat．
Address：How Brey house，Norfolk st． Cables－sheepoote，London．
Lincolns are Booming
㫦品
F．H．NELL
Telegraph \＆R．R．station，LUCAN，ONT． Sheep Breeders Associations．
American Shropshire Registry Association，the
largest live－stoolk organisation in the worla．
．
 FRING．Secretary．Lafayette，Indiana．om Some good shearling ewes and ewe lam bs，and a
feve conoice ram lambs，right type，for sale．
Prices moderate －E．F．PARK，Burmessville，Ont． Tamworth Swine and Shorthorn Cattle Still have a lot of beaties to offier in Tam－
wortho both bexes，from 2 months to －

 OOLWILL BROS．，Nowomotle，Ontarlo． TAMWORTHS \＆MOLST EINS






HIDES
SHEEPSKINS，FURS
Solla
E．T．CARTER \＆CO．．TORONTO

SHROPSHIRES
GF HINDMARSH，Ailsa Craig，$\stackrel{\circ}{\circ}$

5


Z 0 I
My offering is：young stock of both sexes and
all agese，bred from imp．stock and the get of
in．stock，they are trus．

 rder earl，as supply is limited，Cookshire．Oue ARGE ENGLISH BERKSHIRES



QUESTIONS AND ANSWERS Miscellaneous．
sharing an estatr．
and B have been married twenty－two ears，but have no children．Could $A^{\prime}$ brothers and sisters claim a share of his property in case he should die before B， not having made a will，and never hav ing received any portion from his father？
$\begin{array}{ll}\text { Ontario．} & \text { G．H．}\end{array}$ Ans．－Yes ；they would be entitled to a sufficient to pay the debts and funeral sufficient to pay the debts and funeral THICKNESS
HOUSE
OF CONORETB WALL
MING CONCRETE． 1．If walls for dwelling－house， $36 \times 40$
feet，are built of of oment concrete，would walls 27 feet high？ to use a frame，which is raised as the mortar moderately dry；or to make a pour the concrete into this quite wet，and
ullow the box to stand until some time after the wall has been completed，field stone being used to fill in center of wall in
both cases ？ Temiskaming Dist．，Ont．
Ans．－－1．Quite strong enough．The pper story might，with perfect safety，be
reduced to a thickness of nine inches． 2．The only advantage the latter method only advantage the latter
would
have over the former would be that no air spaces would be left in the concrete，it would be perfectly
solid．If，when concrete mortar is used moderately dry，it be rammed until all interstices are filled－until water shows－
it will be as strong as the other．A mason who makes a specialty of build－ mortar rather walls，says that he prefers
mocause he cannot get his men to ram it sufficiently when on CRUBHED STONE OR ORAVRI－CAPACITY
OF SILO－OCTAGON MEASUREMESNT． 1．Which is better，crushed stone or gravel，for cement silo？
2．What size should the crushed stone or gravel be？
3．How do you estimate capacity of 3．How do you estint
silo in tons？ 4．Given the length of one side of an
octagon，how can one find its width？ 5．Given the length of one side of an
octagon，how can one draw remainder of figure ？W． Ans．－1．Crushed stone would probably
make the strongest wall，but as gravel is good enough，it may as well be used，u
less the other can be got as cheaply． less the other can be got as cheaply．
2．Gravel should be of no one size，but
 of any size，whether broker．or whole，
may be imbedded in the concrete may be immed in the concrete，so long
as they are under the surface on both 3．To estimate the capacity of a silo
in tons．first find the capacity in tons．first find the capacity in cubic
feet．The formula for this is $22 \div 7$ times the square of the radius，multiplied by
the height．A silo 12 feet in diameter and 25 feet hich would have a cappacity
of $6 \times 6 \times 25 \times 22 \div 7=19,900 \div 7$ culbic feet． The average weicht of a cubic foot of of silate． weigh a ton．The capacity of our silo
in tons would thus be $19.80 \div 7$ ． 4．Multiply the length of one side by 2.414 and you have the diameter from
center to center of opposite sides to within the nearest fraction．
5．Here is a homemade formula． two proces of hoard，each the exact
length of one side of octagon．Join them together at the proper angle，which
is just half wav hetween a line extended
straight and me turned at right or square across．Tising this implement
mark two sides，then shift and mark an－ other，and continue until the figure is
complete．Or．descrihe a souare，each
$\qquad$
$\qquad$


LARE ENDLISH YORKSIIRES


D．C．FLATT \＆son，mullismove．ont
Lainge White


Lmporter \＆Breeder of Shorthorns \＆Yorkshire O．PR．Whd a．T．R．Woodatook，Ont
WOODSTOCK HERD OF BERKSHIRES
 4
 ORCIUULAS TMOMSON，Woodstock，ont LIRGE ENGLISH YORKSHIRES and
 S．D．ChANDALL a sons，Cherry Valley

Glenburn Herd of
YORKSHIRES
Yoponat inum tome
 Oakdale Berkshires
 MONKLAND YORKSHIRES

 JAS．WILSON \＆SONs，FERGUS，ONT
G．T．R．and C．P．R． YORKSHIRES
 GLENHODSON CO CO Culars apply to GLENHODSON CO．，Myntle statlon，Ont．
C．P．R．and G．T．R．
Lorne Foster，Mre．





## ELECTRIC BELT FREE!



## UNTIL YOU ARE CURED.

I belleve in a fair deal. If you have a good thing and know it yourself, sive others a chance to enjoy rve got mon arro
rve got a good thing. rm proving that every day. I want every weak, puny man, every man with a pain Some men have doctored a good deal-some have used other weys of applying electricity-without get ting cured, and they are chary about paying money untll they know what they are paying for.
If you are that kind of a man this belt is yours without a cent of cost to you untll you are ready to say to me: "Doctor, you have earned your price,
and here it is." ing a good deal of confldence in my belt. is showIng a good deal of confidence in my belt. But I
know that most men are honest, especially when they
have have been cured
will impose on me.
As to what my belt will do I know that it will
cure wherever there is a possible chance, and there
is a good chance in nine cases So you can afford to cases out of ten. Ini take the chances. If you are no not sick don't trifle
with me, but if you are you owe it to yourself and with me, but if you are you owe it to yourself and
to me. When I make an offer Mike this, to give me a
fair trial. tair trial.
I want

Want you to know what I have done for others.
have recelved great beneflts from your Belt. I understand




I have your would belleve the thousands of men whom Since usling your Belt I find that the pain in my beak
 But some men don't belleve anything until they see 1t. That's why I make 1 TO ME TO-DAY.
this offer. I want to let this offer. I want to let IT TO ME TO-DAY.
you see it, and feel thand
know it by four pwn know it, by your own
experinee before I get
a cent.



But I expect to
 Come and see me and let me show you what
have, or if you can't, then cut out thls coupon and have, or if you can't, then cut out thls coupon and
Bend it in
belt and a fo will bring you a deccription of my among men, all that w111 inspdre you to be a man

GOSSIP.
In ordering a change of advertisement, breeders of Shorthorn cattle, Yorkshirg the young bulls and heifers they are offering are by British Flag (imp.), one of the best stock bulls that has been it
their section. They are of the low-down beefy type, and are from their best milking cows, got by such bulls as Indian Woe, by Indian Chiel (imp.), British onpareil 52 nd ), and Village Boy 5 L he bulls and heilers range in age from ten months to three years, and are all in
good breeding condition. They are all for sale, at prices in reach of anyone.
They will meet parties at Cobourg stathey if notified.
belmar parc shorthorns
Five years ago marks the epoch of the
foundation of this now noted herd, and when we look over the noted herd, and 86 head of hind class animals now so comfortably quartered in the commodious barns, and think of the almost insignificant beginning so
few years ago, it seems almost incredib Iew years ago, it seems almost incredible
that such a high-class herd could be built up in so short a time. It certainly re-
quired a vast amount of enterprise and good sound judgment, and these essentiab requisites were amply displayed by the
owner. Mr. Peter White, Jr. The farm lies just outside the corporate limits of
the Town of Pembroke, Ont. C. P. R. acres. on which are érected a set of buildings planned by a master hand, as
the layout for convenience of feading. cleaning, ventilation and light is nearly
perfection. The herd represents such noted Scotch blood as represents such Marigold, Bruce Countess, Duthie Sun-
shine, Rosalie, Missie, Wimple, Amaranth,
Rosebud Cliter Rosebud, Claret, Crimson Flower, Bruce
Fanny B., Marr Averne, and Duchoss Fanny B, Mart Averne, and Duchess of
(lloster, the get of such noted bulls as Magistrand (imp.); the Lady Ythan bred bull. Brave Ythan (imp.); the Marr Roan
Lady bred bull, Scottish Pride (imp.); the Flora bred bull, Orange Victor: the
Cruickshank Cicely bred hull, Crescent Kruichshank (imp.); the Scotch M. bred bull,
Kight,
Merriman (imp.) ; the Golden Drop bull. Merriman (imp.): the Golden Drop bun
Royal Prince (imp.): the Kinellar Non
Rell pareil bull, Nonpareil (imp.); the Lady
Dorothy bull, Soctish Fame (imp.). the
Missie bull, Merry Morning ; the Roan Lady bred bull, Sailor Champion; the
noted old sire. Prince of Archers; tho Verbena bred bull, Diamond Sweep; the
Marr Miscie bull. Royal Edward, and the Brawith Bud bull, Giravesend Heir. From
the above it will be seen that the breeding of the herd is unsurpassed in this or
any other country. while individually they are a massive, low-down, thick-fleshed lot and among them are a number that have
won their spurs at Toronto, Ottawa, and other shows. Many of them are and im-
ported, bred by such noted ported, hred by such noted breeders as
Duthie, Marr., Willis. Camphell, etc ; in
Thort, thic ic short, this is one of the very foremost
herds in Canada. and under the skillful herds in Canada, and under the skillfu
management of Mr. John Douclass are grand fettle. The herd bulls are, first. We well-known Toronto winner, Imp.
Nonpareil Archer, bred by Robert Bruce ond hy Prince of Archers, the greatest Som Nonpareil Blosson 2nd, by Sittyton carries a wealth of flesh put on just about
right. Second in service is the Toronto.
junior chainpion. Marisels. ripht. Second in service is the Toronto
junior channpion, Marigold Sailor, by
Snilor Chamnion Roval Sailor: dam Marigold 6th, ly faultess form, and has quality from the Monarch, by Merry Champion: dame Maude
4th. ly, Spicy Rolin. This is one the coming show Rolsin. This is one of the
Aloshed and ftraight lined, even Among the founger ones are several bulls. athout 9 and 10 months of age. some outh of imported dams, and the get of Imp.
Merriman and Orange Victor, hest lots of young hulls we have seen for
many a day, an exceedingly thick lot, covered with a wealth of hair that
stamps them at once as extra moord doers. stamp them at once as extra good doers.
As a sire. Imp. Merryman has had feiv


[^0]:    to your very pleased to inform you that I am coming
    next, so I shall have much pleasure infinning of March next, so I shall have much pleasure
    scription to your most valuable pa and am in a pour most valuable paper when I I a arrive, address, as I am going farming. In Advocite, short time that I have had Irom its perusal as regards Canada and
    workine, which I otherwise should hava
    or so working. which I otherwise should have
    of, so I I am sure you will agree with
    that if sull that if som. .arthers were to do the sam
    feel much mo
    edge obtained edge obtained whon they arrive in Canada
    to make your acymintance ugain about

[^1]:    position, and also took the Jubilee Vase for the best
    Shorthorn; after taking firsts at Shrewsbury and Birken-

[^2]:    Auctioneer.

