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Why Incubator Chiciks Die in
$\qquad$ the Shell
There seems to be a wide and varied
opinion as to why chicks die in the shell Many claim, which is true in a sense, close inbreeding. It is true also that wo find weak germs at times when the parent Too close confinement, with little or no cause chicks to die in the shell, the germ not being strong enough to withstand
the various changes during incubation. The writer is fully convinced after care ful demonstrations, that whtle the above
auses are partially true, the main cause is improper ventilation. The system of
ventilation in incuber ventilation in incubators of to-day is
such as to cause a draft, drying the eggs too fast, causing a dhe membriane or lining beneath the shell of the egg to become tough, so much. so that at hatching time
the chick is unable to break through many even dying in the shell after being pipped; whereas, if this membrane could
be kept soft and brittle as when freebbe kept soft and brittle as when fresh-
laid, the chick would easily have picked By placing a hygrometer under a. sitregister about 60 per cent., while in alInost all makes of incubators less than
half that amount will be shown. Herein In high altitudes, the air passing too
rapidly through the inction rapidly through the incubator, taking the
moisture from the egg too fast, drying and toughtening the membrane until the
chick cannot break through To demonstrate that chicks die in the
shell from lack shell from lack of ventilation, I have
made an incubator in which instead made an incubator in which instead ot
using a two-inch pipe (the size used by manufacturers) to convey the heat from
the heater into the of four-inch diameter, which furnised one with a much greater volume of pure warme air. Also in addition to the larger pipe the heater within the outer wall of for evapoiation. Hygrometer tests mader showed the deaber without the reservoir 18 degrees, while of humidity to be only taining water the humidity registered normaive or about 60 degrees. $I$ am
positive that the eggs to retain their natural condition must have added moisthe supply of heat, and taken in with ture pans, which arfect principally moisthe air is them. With the above system dition of the hened to the normal contest, is shown to be 60 dogrees, and
being carried heat, every egg is affecte source of the The machine constructed the same. egg capacity, walls 14 inches deep be-
tween the top and bottom.
several hatches several hatches with a percentage ranging
from 90 to 94 per cent eggs, and the finest, strongest chicks I
have ever seen. ones, and why? For no other reason
than that the ventilation was right from periments $\left.\begin{array}{l}\text { end of hatch. These ex- } \\ \text { temperature } \\ \text { wade in all kinds of }\end{array}\right]$ below freezing. This demonstrates the
bimple that simple fact that to secure good hatches and to prevent chicks dying in the shell
the incubator must be mad the incubator must be made with more
ventilation, and that the egge must be incubated with the proper amount of
humidity.-O. P. Scott, in Farm Poultry Few cattle are being bought for feeders, oo the Chicago market papers report. gompettion has been keen for sheep to
go on feed. Prices for cattle to be marketed next spring may be expected to
be more satisfactory than latterly.

What She Meant-"' Is yo got enny
haih
" Any what, aunty?"
" Haih, boss?"
"Hair ?"
"Yassuh, hai
aid."
"Oh, hair."
" Yassuh, haih."
Why, no, aunty ; this is a dry
" Dat's what Ah "lair store."
sus tole me to cum yeah an' but misyahds mo' hair lak she done got free
". Oh, you mean mohair


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## The Farmer's XVdv

LONDON, ONT., and WINNIPEG, MAN., JANUARY 11, 1906
No. 694

## EDITORIAL

## Frenzied Finance in Canada.

The record and recent collapse of the York county Loan Company, of Toronto, is a fair have it in Canada. The revelations made following the suspension of the Company have not
lisclosed anything dishonest, so far as the diversion of funds is concerned, but they have demonstrated the fact that President Phillips and the directors of the Company at least lacked foresight, business acumen and financial discernment. The enterprise itself was fundamentally at fault, and it
was only a question of time before the inevitable "as only a
crash eame.

Originally, the Company's capital was derived from the sale of terminating or withdrawable put it in a plain way, based upon the misiortune he Company depended for success upon the words, which man anywhere from $\$ 130,000$ to $\$ 140,000$ year. These lapses were large, because of the character of the shareholders, who were mostly of the poorer classes, and while the Company could count on this big income the officers took
no heed of future contingencies. By lapses is neanv failure to make payments regularly on the shares, resulting in the forfeiture or loss of what was already paid in
Mr. Phillips explains that he endeavored
to conduct the Company on principles that have been so successful in industrial insurance. But he made one fatal mistake. industrial insurance the companies can "load" the premiums so as to cover expenses. Then the
lapsee also enter largely into the calculation. lapses also enter largely into the calculation.
When $\mathbf{M r}$. Phillips applied this principle to a loaning institution, he discovered that it worked well for a comparatively short time, and we find that in 1899, after confining itself to mortgages since 1893, the year in which Mr. Phillips took charge, the Company decided to purchase and develop amount to a very substantial sum annually, but
in 1902 the Governanent stepped in and changed In 1902 the Governunent stepped in and changed lead of forfeiting all money paid in when they They could cease payments, and at the end of er cent., which was allowed the Company for
This Act cut off the York Loan's most proic source of profit, and sounded the death knell
the Company. Even then Mr. Ph llips had an the Company. Even then Mr. Ph llips had an
pportunity of saving the enterprise, but it was t until the early part of last year that the mpany inaugurated the policy of changing the
aver to permanent shares. In the mean(1., the expenses of the Company were excessive, cost of collecting payments ranging from 17 $\$ 78$ to $\$ 83$ for every $\$ 100$ they were comed, under their share agreement, to pay out
Meanwhile, the purchase of real estate was conued on a large scale in the vicinity of High

Immense sums were spent in improving this
$y$, and most expensive houses were erected,
them costing $\$ 20.000$, another $\$ 16,006$, of them costing $\$ 20,000$, another $\$ 16,006$, still another $\$ 11,000$. It was Mr. Phillips' ntion to make this district the finest residenit for such expensive dwellings, and the Com
pany soon found itself with enormous unproducfive investments on its hands, and heavy expenit is said, to $\$ 25,000$ a year.
The hope of the Company was that the realestate holdings would appreciate in value and be sold off fast enough to meet the increasing calls doomed to failure, and just at the time when the Company most needed the money to protect and
further develop its real estate, large blocks of further develop its real estate, large blocks of
these terminating shares fell due, and had to be

## In the meantime a number of subsidiary com-

 panies had been formed, including a piano manufacturing concern, a life insurance company and real-estate company, and several publication schemes on the side. In addition, Mr. Phillips Light and Power Company and with Sollthern funds tied up, the president finally diseovered ese Company to he seriously embarrassed and the last resort he suggested the merger with the Permanent Loan, a proposition which, if it had gone through, would have perhaps offset Mr . Phillips' many previous errors of judgment, by transiorming the shares of the Company into stock maturing in periods of from three to ten years. This expedient would have removed the immediate burden of the Company, and allowed time for the real estate to appreciate or be transferred to other hands, but at this juncture the sharcholdersstampeded and commenced to clamor for their money
These are the facts that have been brought out by the Government investigation, and, when sumfirst, because Mr. Philling endeuvored to pay much for what he received, Viz $\$ 100$ to evary $\$ 78$ or $\$ 83$ received, after commissions and ofher expenses were met; secondly, the profits fromlapses, the main source of revenue, was cut off bv the Government ; and, finally, because its assets were not negotiable, thus leaving the Company without the means of refunding the money it had promised to pay on demand

Just where the Company stands in a inancial way has not yet been clearly shown. However, this much is known, according to the deductions of Mr. Masten, solicitor for Mr. Cross, the Government investigator: Total liabilities to share$\$ 2,040$ 634 leaving a deficit of $\$ 1,138,134$ are nearly other allowances, the deficit would probably reduced to $\$ 1,000,000$. It is therefore assumed that the Company will nay 66 cents on the dollar, though this will depend upon the disposition of the real estate, the chief asset
far company had, in all, 113,740 sharehnders, different classes of stock, issued at various time and in various ways by the Company. It willes for the courts to decide how these different classas of stock are to rank when settlement day comes. The finding of Mr. Cross will show a lamentabl the Government that the Company had no system of bookkeeping ; that the officers themselves did not know the real liabilities of the Company and had no clear idea of what had to be earned in order to fulfill their agreement to the shareholdwhat that the books were not audited, and that true were termed the auditors' reports were uning and misleading. The case is another warnwhich which propte have no payments of abnormal dividends,
held out as a bait.

Dr. Smele and the Hog Oueetion. There is a letter in this issue of "The Farmer's Advocate " from Dr. F. J. Smale, AssistantGeneral Manager of the wm. Davill make interesting reading, particularly for those who were present at the discussion on the hog-marketing question that took place at the ontario Winter Fair, in which Dr. Smale took part. Not unexpectedly, he takes exception to our resume of this meeting, and occupies some space in an endeavor to refute our presentation of the case, as brought out on that occasion. We do not see that he brings up any new points,or in any way lays our position open to question. The report, published in our issue of Deo. 28th, speaks for itself. Our readers will do well to reread and inwardly digest it.. For lack of space, simply, the part of the discussion which Dr. Smale thinks we slighted, viz., Prof Day's remarks on the cost of producinr pork, was not printed in the issue in which the rest of the report appeared, but, so far from considering it unimportant, we printed the full typewritten copy in the following issue (Jankary 4th), which, by this time, will have been in Dr. Swale's hands. As for the character of the report published by packers was certainly presented with admirable skill, but, seaing that we were fter the real ker nel, or truth, of the matter, and seeting that, in our opinion, the farmer has penvine grievence our opinion, the farmer has a genuine grievance,
our report of the discussion will natufaly have the appearance of partiality to those who were the appearance of partiality to those who were
espousing the cause of the packers. As for Dr . espousing the cause of the packers. As for Dr.
Smale's letter, we cannot refrain from remarking the meagre reference to the second of the three points, which the author complained three points, which the author complained we was completely at Guelph. The taciturnity of the packers on the matter of discrimination in price in favor of hogs of the right grade, does not contribute to our estimation of the packers sincerity regarding the other phases of the subject. At the beginning of his letter, Dr. Smale denies our charge that the representatives of the packers failed to get down to the root of the question-why they sometimes want to import hogs. He says : The reason we gave was that rightly or wrongly, farmers believed that it did not pay to raise hogs, and acted upon this conviction." Why they believe it does not pay to raise hogs may lue best answered by Duncan Anderson's opening remark that, while the average prices of the past few years had been fairly satisfactory, the occasional slumps in price, which farmers believe unwarrantably extreme, curtailed production unduly, and introduced an element of uncertaing from embarking so freely in the hog business as he Smale's cause, and aisetion root" of Dr part to deal earnestly with this on the packers tainty is what farmers ane louncer Farmer's Advocate ", are looking for. "The maintenance of constant values thend for the They must ordinarily be lower the year rolind than in other seasons, else everybo the autumn off his hogs then and choke the packin turn We do not say, although we think thg piants. thing might be done in that direction-th some arrangement can be made to fix prices and six months ahead; it may be that the es liacon barometer " is not sensitive enough to bacon what hog values should be so long in advance but from a limited though intimate acquaintance, with pork-packers, we suspect that the real son it is so difficult for farmers to approach rea

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ddreso-THE FARMER'S ADVOCATE, of
THE WILLLAM WELDD COMPANY (RLaersoob
understanding with the packers, is that the lat-tude-and attitude is tenfold more significant than argument-is unconsciously expressed, " between sentimental talk about partnershic words: " This ners and interested partners -is in the ar There are three phases to this b.isiness-raw ma terial, manufacture, and sale
However, now that Hon
However, now that Hon. Mr. Fisher has wisely shut out American hogs, the problem will adjust
itself, and the enterprisirg packers who have shown their confidence in the business by invest-
ing money in plants, may, in absolute self-interest, be obliged to adopt a liberal attitude.
Dr. Smale says there has been no combin among packers to depress prices, but Mr. 13owman, manager of the Montreal Packing Company. the fact of occasional telephone consultation cion that in some seasons, at least, virtual com-
bination does exist in an informal way. luut, whether this is the case or not, it is not beyond
the bounds of possibility that in the futare, consideration ior their own vested in-
terests, may induce packers to co-operate
amone each other and with the formion among each other and with the farmers
to keep the price from slumping disastrously in temporary periods
packers have it in their
onfidence and good-will

hus prevent the periodic shortage of hoge. an do we dispute Prof. Day's figures, although ho ho
only gave them as tentative, and did not take acy gave them as tentative, and did not tak,
capital invested, labor, and a risk, interest on items. As a matter of fact, we believe there is
good money in raising hogs, but if the business
is unduly procarious. is unduly precarious, and less remunnrative than
it might he, we want those evils rumedied. We believe they will be remedied, and until they are lin down": and the solid approbation of the
thinking larmers of this country for the pas thinking larmers of this country for the pas
orty years, and its record for fairness, is a sulti-
cient answer for the uncalled-for insinuat

## Getting What's Wanted.

 answering enquiries for a variety of articles some of them out of the ordinary run of things didly into prompts us to take our readers ca matter of publishers' ethics There is, perhaps no pay for the cost of producing it i" The Warm er's Advocate and Home Magazine," for costs us about $\$ 2.06$ for every 52 papers turne out. The commercial advertiser is the man who helps us out: but for advertising, practicall every paper in the country would suspend publi cation, or else push the subscription price away up. To the publisher, additional subscriptions are desirable because they extend the field which his advertisers reach, enable him to sell his advertising space for so much more per column, and with the increased revenue, still fur ther improve his paper and make it more useful elf-preservaders. main source of ith him to guard afford to give away space any more than a farmer can afford to give away his crops. Those who think pace costs us nothing, are sadly mistaken ; costs us printers bills, paper bills, salaries, and on we cannot other expenses. For this rea hough, in every case we do avor of the enquiring reader. If we were to start such a policy we would be besieged on being we would soon find ourselves on thequence For the accommodation of readers we the strect. olum.ns for live-stock advertising end special a."Want and for Sale" column for the exchange farm properties, pet stock, help and situations anted, and miscellaneous farm. articles. Realizable to us from a subscription standpoint, we make the rates in them as low as we can pos-sibly afford, and from a direct advertising point f view, these columns are much less remunera ive than the others. The service is cheerfully rendered, however, knowing that our subscribers'
interests are ours; but, having facilities for the exchange of farm stock and produce, we must, in all cases, decline to print ing articles for sale. We always cheerinlly offer nish advertising rates on application, and trust privilege subscriters will make full use of th privilege accorded in this way, and that none our paper a free medium for the exchange of

Cash or Credit for Dairy Supplies? miles on credit, one of the foremost manufacturin enquires, declares that so far, in reply the our notes pays 10 per cent. more than he could per
the same goods for in cash. In a good man
$\qquad$
$\qquad$ he invariably pays a big percentage for the of that money which he is holding back in pa
ment for his apparatus. The writer gous on t say : "We do not take long-time notes. W days. Fspecially in the United States, the dairy not pay cash for his apparatury apraratus should butter always bring cash. It is the practice month for the cream received during ther of ing month, but in some places they are gutting pay oftener than that-as often as ance a week.
thorough investipation with hat the practice of giving notes
cogressive System of Advanced Registry Needed
ne mater al a syst adry bran fion of pure-bred cows of the dairy breeds, base fat prosil superuld be dealt with energetically at the approaching mectings of the dainy bree associations. The idea should be quite feasible in consonance with the national-record scheme and we understand that Hon. Sydney Fisher Min ister of Agriculture, has agreed to furnish one spector to begin with
The day for guesswork in dairying is past. People are learning the great lesson that a cow' producing value cannot we gauged with any de gree of accuracy by her appearamce. Dairy nherent is, to a very large extent, a macte outward evidences. Hence the great importance of weighing and testing the milk of the individual cows and keeping a record thereor, in order to decide which are the profitable cows and which are the ones that do not pay for their kcep, and consequently, are likely to produce calves of the mong pure-hreds as amo serubs, and there is far greater need for selection. The usual prem ium in price of pure-breds depends upon their supposed greater value for producing males to in press the qualities for which they are bred more strongly upon their get when mated with the common stock of the country than could be done an otherwise equally good sire of mixed breeding. Therefore, since he pays an enhanced price oxpect that the bull, the purchaser has a right to producing ancestry, for what comes of superios to pay a high price for a prepotent sire to int press mediocrity upon his offspring
The plain truth may as well be pointed out, of purpose have helped and conservatism, and lack tion of improved blood of all closses of ssockita greater reason why we have not bettor hords, of dairy cattle, for instance, is that the rank and the of breeders of pure-bred stock have not aimed straight enough at utility, which is the principal quality that commends a breed for general adoptron by business farmers. Then, again, too many atriary bulls and heifers have been sold on tho winner as a showe somes, unfortunately, more valuable milk or con an economical producer of the best strains and are many weeds among even to perpetuate superior utility strains, is or pursue a relentless policy of knifing every female whose performance does not augur reasonabl probability of her dropping extra good producing
stock. This plan should bo followed in gent self-interest by every dairy-stock breeder who hopes to build up a high-class herd, for the time valued with regard mainly to individual dairy capacity, constitution, and the milhing capacity of the female ancestors, the latter point breed associat dary quality. The leading dairy
$\qquad$ riesian Associations, and Americun Holsteinsey Cattle Club, years ago institutid advanced registers, in which are kept the names, numbers and records of pure-bred cows and heifors, which onducted under the superision of competent and given milk and butter-fat yiolds above a Ilinimum. The Canadian Ayrshire Breeders' As soctation has alce oxtabliched an advanced regisan Cuernsey Club has done only yearly
$\qquad$
$\qquad$
$\qquad$ word of which was being wot by the Illinois Wypriment Station, were gratce Jursey, hoth in the prime of life. In the

Advanced
times with no attributable explanation except that of action and reaction. It therefore behooves us not to be satisfied with any system of
advanced registry based on tests of short duraadvanced registry based on tests of short duration. We make bold to say that, bust ns yearly tests are supplanting weekly and thirty-day tests in favor of breeders and dairymen, so will the former give way to a system of keeping track o shall find men who are advertising bulls, pointing to the average official tests of their dams and grandams over a. number of consecutive years. The yearly record may be all right to commence with, but our breeders may as well make up their minds now not to stop there; the wheel of progress cannot be turned backward, nor will it stand still.

We cannot in this article do more than allude to the immense advantage it would be to the dairy farmer, to the intelligent breeder of pure if a dairy cattle, and to the useful dairy breeds bull prospective buyer, particularly of a her in the herd know just what the individual cow capable of dom which he was about to ber care. Only authenticated-i.e, officially supervised -records are of any use, and records covering a year or, better still, the lifetime of a cow, ar infinitely more valuable that seven- or thirty-day records. It may be objected that such official
tests, covering a period of years, would involve prohibitive expense, but why should it? As the A. G. C. C. works it, the owner of the cow weighs the milk daily, and the experiment sta tion expert visits him only for a day or so once a month, and while visiting a herd it would take him no longer to test a dozen cows than one. In a large herd, where many heifers are continually coming on, it is likely that an enterprising breed er would seldom le without one or more individuals undergoing test, even if the test of each covered only a twelvemonth : and it being thus necessary for the inspector to visit the farm, he could, for very little extra expense, continue the ests of previously tested cows into the second, third or tourth years, and the immense economic benefit that would finally result from having official records of cows over several consecutive years, should commend the idea to the careful breeder of pure-bred dairy stock dairyman and know any other way in which a little public money could be spent with more advantage to
dairying and the country generally that in supplying the inspectors to do, at a minimum expense, this work of officially testing pedigred herds, with a ian lines the pure-bred, and through

## It "Makes Good.

One year ago I started farming for myself, and found I was in need of a good adviser. I happened to get a sample copy of The Farmer Advocate," and it did not take me long to see that that was the paper I was in need or. It has proven itself to be worth many times over the subscription price. I strongly' advise every farmer to have it in his home.
Brant Co., Ont. J. HARTLEY SHANNON.

## HORSES.

## Trimming the Hoofs.

The old saying, "No foot, no horse," is not nly true, but should teach the farmer to take toe often gets; too long, unbalancing the foot, and then come splints, spavins, and other ailments and blemishes, to which the feet and legs of horses are heir. See that the foot is kept rasped of
and level. Do not use a knife if it can be helped, as the first blacksmith that shoes the colt will probably cut away enough to last a lifetime. In no part of the horse's anatomy has he sufiered
so many wrongs or endured so much unnecessary suffering as in his feet. If there is the least xcuse, every blacksmith will use a knife. The frog should never be cut away or pared, but left Ploo
et that there will be no up with such strong feet that there will be no excuse for cutting them Use the rasp on the underside of the toe, and under no circumstances put the rasp on the out
side of the hoof. The entire hoof, from coronet to the sole, is covered by a fine coating of natural varnish, beginning at the upper margin or coronet, and gradually becoming thinner as it descends. Under cover of this varnish the new horn is secreted and protected until it attain economy to the perfection of the horn is retained within it, and the influences of wet and dry are set at defiance. It is easy to see that this most and that the foot should be kept level and in good shape from the underside.
Avoid Raising Plugs.-Never in the history of horse-raising has there been a wider difference in


Aberdeen-Angus Steers.
must give as much thought to the selection both dam and sire as they do to the breeding
cattle and other live stock. Of course, it is in the power of many to raise champions, but a coach horse that will sell for $\$ 300$ is as easily
raised as one that will bring $\$ 45$. Such a horse is useful on the farm until the time when he is
ready for the market, and can be used both on ready for the market, and can be used both on
the plow and on the wagon. In case he lacks price, he is still a general-purpose horse that will be profitable to the owner

## Crib-biting and Wind-sucking

I couple these two together because they often
co-exist, but I distinguish between the two, writes
a veterinarian. a veterinarian. Either may exist without the in the establishment of the may lead to and end playing with the by idle horses that staing It may be copied from the habit of another hors and therefore a crib-biter in a stable in undesir able, because it may teach other horses the habit
Just how and when it arises is a difficult tion to answer. I remember one case in which the habit was contracted in only a few days. horse may "" crib" and not wind-suck, in which state 1 hold the horse has a vice. When he wind
sucks, he is vicious or unsound? Mere cribhin does not diminish his usefulness. Wind-suckin may not interfere with the working capacity of horse doing regular, constant work, but shou stance, a lame leg or a sore back-he will soon diminish his capacity for work. Most horses re quire some resting place for their teeth or jaws before they wind-suck, but a few are
of wind-sucking, I assume, is the distension of th stomach by swallowed air. This leads to gastric defect. I do not believe that the habit has, as
predisposing cause, a gastric affection, nor do recognize any evidence that indigestion leads to wind-sucking. I consider it merely a bad habit-

Points of the Draft Horse In lis recent bulletin on "The Principles and of Horse-breeding. plains some of the points and characteristics he typical draft horse.
sixteen hands high, or somewh should stan sixteen ands high, or somewhat over that weight. width and quality, are unliked in the market, and many of them are prone to chore
(St. Vitus' dance). Abnormally tall horses, un ess wonderfully good in conformation, so tha the height is not ungainly, are difficult to match, and, therefore, not in demand in the market. Such horses of a three-horse team for hauling coal, etc. Weight.-A draft horse should weigh sixteen
hundred pounds and upwards. Weight is absolutely necessary for the hauling of heavy loads. the strength of his muscles and tendons, adds to the effect of his levers in motion, and gives him a firm grip upon the ground. It is a burden and
practically useless when not associated with perpractically useless when not associated with per-
fectly developed, exercised muscles, so far as actual work is concerned, but is requisite in every draft horse offered upon the market if he is a command a high price. Where the frame shows is bought by the professional feeder, who finishes him for the market. In a well-developed draft horse extra condition is considered worth twenty-
five cents per pound in the Chicago market. For practical purposes, the great weight of a draft horse should be made up of large, strong bones and powerful muscles throughout the frame. Fat ment of muscle rather than wealth of flesh and fat. A typical draft horse should still weigh
sixteen hundred pounds or over when deprived of Form.- The entire make-up of the draft borse
should suggest strength for heavy hauling. He should suggest strength for heavy hauling. He
sho ild be broad, deep, thick, round, with each oring parts, giving an appearance of symmetry and massiveness.
He should be low-down, blocky and compact, on short, strong-boned, clean legs, showing mizrled
prominence and development of tendons, and the lags should be properly placed and set to ensure Quality. This term applies to evident refinement in oharacter of skin, muscles, bone, tendons
and hair It infers, also, aristocratic breeding rated by high spirits, vigor, sprightly action. endirance, tamina and intelligence, and is plainly
indicated whe the legs are free from meatinuss. With " feather." the hair under kness and holks
eprimg as a silliy fringe fron the rear of the teen
dons. Quality offisets grossness, and combines grace with great weight and power in the best Action.-A draft horse will have to do most
of his hard work at a walking gait. It is, thereof his hard work at a walking gait. It is, there-
fore, of supreme importance that he should be able to walk fast without tiring, and, in order and level. The joints must be easily and fully
flexed the flexed, the feet must advance and be set down
without deviations from a straight of the feet should turn up and show plainly to the judge as the horse goes from him, at both walk and trot. The feet should be lifted quickly, fully and rhythmically, and set down squarely and
firmly. There should be no paddling, dishing, cutting or interfering; bo no should the fore legs roll or the hind legs be carried too close together
or too far apart. In judging of action, note the or too far apart. In judging of action, note the
movements of each leg and foot, the handling of each joint, and the carriage of the entire body as the horse walks and trots around an enclosure, from the observer and to him. Lameness should
be absent. The hocks should. be carried well together. Rolling in front is due to too great $\begin{aligned} & \text { gether. Rolling in front is due to tor } \\ & \text { width of chest. } \\ & \text { Stubby, stilty action in } \\ & \text { front }\end{aligned}$ indicates straight or too upright pasterns or shoulders, foot troubles or weak knees. Similar
action of the hind legs indicates upright pasterns action of the hind legs indicates upright pasterns,
unsound feet, hock disease, weak stifles, hip weakness or kidney troubles. Knee and hock action should both be free and comparatively
high. Temperament.-A draft horse should have a.
energetic disposition, but should be free fro vice, docile, tractable and intelligent. Sluggish ness, associated with obesity, is objectionable and " lymphangitis."

## LIVE STOCK.

Marketing Canadian Hogs.

paper, you deal with the discussion which took place zt
the Winter Fair, in Guelph. Without questioning the accuracy of your report of that meeting, it would, at least, have been only common courtesy to report to
your readers that the packers, through unfortunate in terruptions to the afternoon's programme, were no
given an opportunity to take up with any degree of
completeness the completeness the three questions raised, namely
$\qquad$
$\qquad$ This at least is true, that the representatives of the
packers-your report to the contrary-neither evaded the question nor sought to divert the discussion into other channels. When you state that they failed to get down
to the root of the question-the real reason of the
shortage of hogs-you state reason we gave was that, nightly or wrongly, farmers upon their conviction. This is raise hogs, and acted
une bed-rock of the Why are farmers raising less hogs than twelve months ago? Is it because they have had new light on the cost of raising and feeding hogs, which
shows them that during the past few years they have been marketing hoge at a loss? Or is it the ause of
the persistent campaign of misstatement and mis representation, carried on by "The Farmer's Advocate" by the ears? Journals, to set farmers and packers article to obtain an answer to the farther questions : ". The average pork-packer regards the farmer as his particular prey. They will stand it for a while, but...
and when it does, more or less acute, is bound to come, lose than the farmer.".
By such statements as the above, made without a vestige of proof to support them, you arouse suspicion
in the mind of the farmer that he is not having a fair
deal, and from that suspicion to the conclusion the there is no money in hogs is but a short step. ing, Prof. Day, of the ontario At the Guicultural ph inect-
gave some very valualile fipures on thio gave some very valuable figures on the cost of raising
and feeding hogs, which you apparently thought uranportant, although hy most people they were considered
the most valuable contribution to the nfternoon's pro-
ceedings. ceedings. In tests conducted at the college, in which
he was most careful to be conservative in his eatimate Prof. Day showed a cost of producing bacon hogs, un-
der best conditions, of 84.10 , and under worse condi-
 olose to the actual cost of production. At this cost,
does it pay to raise and fred hops The average price cwt.; or the averace profit upon the above basis of
cost has been a little over 32 per cent. The yearly marketings of hogs in Ontario have been, say yearly
000 hhogs, worth $\$ 10.50$ ench, or $\$ 12,500,000$, in round
figures.
 Under such conditions, in hag-raising an imduetry that
farmers can afford to go oue uf?

But, it is objected, the price has qallen away belnw
$\$ 5.70$ per cwt., live weight. Yes, and it has gone away above that figure. Average conditions must gutdo farmer in estimating the value of this business
For one period of six weeks only, during the p For one period of six weeks only, during the past six
years, prices dropped to the figure given above, which we take as actual cost. All the rest of the time the
market price of hogs shew market price of hogs showed a profit over the market value of grain used for feed up
showing on an average 32 per cent.

$$
\begin{aligned}
& \text { Again, it is objected that the bulk of hogs are } \\
& \text { marketed in the fall of the year, when price are al- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { marketed in the fall of the year, when price are } \\
& \text { ways lower than the average. It is true that d } \\
& \text { liveries are, as a rule, heavier in November and Deccen }
\end{aligned}
$$

$$
\begin{aligned}
& \text { liveries are, as a rule, heavier in November and Decpul- } \\
& \text { ber than during the other months. The packers are in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The heavier deliveries arise naturally out of a neces- } \\
& \text { sitous condition with many farmers. They are not }
\end{aligned}
$$

$$
\begin{aligned}
& \text { fortunate enough to have warm enough quarters in in } \\
& \text { fhich the en brod sows may }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 1ortunate enough oo have warm enougn quarters in } \\
& \text { which their brood sows may litter before April ; hence } \\
& \text { these phgs are on the market in December. Again. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Which therr brood sows may itter berore April ; } \\
& \text { these plgs are on the market in Deeember. } \\
& \text { feed may be scarce, and the hogs which should }
\end{aligned}
$$

$$
\begin{aligned}
& \text { feed may be scarce, and the hogs which should have } \\
& \text { been ready in August or September are not put on the } \\
& \text { market until a couple months later. This period of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { heavy deliveries unfortunately coincides with a period } \\
& \text { heary deliveries in other countries supplying the Eng } \\
& \text { lish market with bacon; hence the market is over sup. } \\
& \text { plied demen in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { plied, demand is lessened on ancount of the consump- } \\
& \text { tion of poultry at that time of the year, am prices } \\
& \text { are invariably lower. But, to a large extent, farmers }
\end{aligned}
$$

$$
\begin{aligned}
& \text { are invariably lower. But, to a large extent, farmers } \\
& \text { have the remedy in their own hands. As Mr. Simp- } \\
& \text { son Rennie put it at Guelph:."I never have any hoge }
\end{aligned}
$$

$$
\begin{aligned}
& \text { son Rennie put it at Guelph: I never have any hogs } \\
& \text { ready to sell in November or December. I al ways sell } \\
& \text { mine when orices are himh." }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ready to sell in November or December. I always sell } \\
& \text { mine when prices are high.". All farmers cannot do } \\
& \text { this. Those farmers who have good accommodation for }
\end{aligned}
$$ their hogs can, and if they were to stay out during

thest months, deliveries would be nearer normal, und prices more regular as a consequence.
But this fact remains, that
six years did prices reach a basis of cost, even in the
fall of the year. What about all the months that the hogs were the best profit-arners on the farm ?
Again, you state that. . farmers want an under-
standing whereby prices may be more uniformly susstanding $\quad$ whereby prices may be more uniformly aus
tained."
The only answer to this is that the The only answer to this is that the packe
would be happy to name such a uniform price, if such
uniform condition of sale of tacon a uniform condition of such a uniform of price, if such
English market. The Fnglish market existed on the English market. The Finglish market absorbs 85 per
cent. of the product of Canadian hogs. The bacon cent. of the product of Canadian hogs. The bacon is
mild-cured; deteriorate;, if carried, and must be sold pon arrival. Irrespective of cost or of loss, it must be cleared each week. Its value is determined by the
quantity of bacon of all kinds offering on the market. uantity of bacon of all kinds offering on the market,
and by other factors affecting the bacon market, mone or less dire tly, such as the price of beef, the pret, more
poultry, general trade of poultry. general trade conditions, etc. There are no
average conditions governing such a market. With all deavors to gauge the course of a market apon which Lapplies bought to-day will be sold six weeks from now. His point of view is colored naturally by the
cables he receives from week to week, showing bhe eales actually being made for his bacon, and by advices from land. Upon these advices, and his general knowledge of the market, gained by the experienco of yours. the
packer names a price for hogs. But, semeone objects:
is why hater Why should the packer have the right to determine
the price? He should consult the "'-the farmer."
Why should the has to proutect he set the price ? Simply because he
lish market won't one else will. The English market won't pro:ect him. It will sell the bacon
at what it is worth that week, no matter what the cost or loss. Will the "interested partner " prowect him, if
the market partner" has the money in his pocket for his hogs and it is the packer's own business to shift for himself.
This sentimental talk about partners" and " interested partners "一is all in the bin There are three phaseste to the business-raw materin. manufacture and sale. They are all independent, but
the nature of the business the nature of the business, the thousands of holders
from whom the raw material comes, precludes the idea from whom the raw material comes, precludes the idea
of partnership. What the hog and bacon industry neede
is coll has always existed, in spritnership. That co-operation
chief mongers. The meddling of mischief mongers. The breed and type of Canadian hogs
have been improved; the packe-s movey in helping do it, and continue to spent time and
worth more to the hogs are worth more to the Ontario farmers than ver hefore:
packers have shown their confidence in investing money in plants, and creating the business by ing competition; the reputation of Cangadian ancolithy buyimproved in England; Canadian packers have done it by care in cure, selection and marketing.
There has also been kind of co-operation which can ontain in this only
bamely, the absance namely, the absence of comblination or acreement, and
the keenest kind of competition atmons packers. This statement has been challenged, but the absoluters. Thacts of
the case are that the Wm. Davies Compe from 25 to 35 per cent. of the hogs marketed buy ing
tanwith other packers in in everard has had, any agreement
hogy. We have helieved the bying price of usiness along thrse lines. and industry, to dovelop the highest price which we believed we could mas heen the heal th, welther do we We are not in the mushesst for
decency, and we claim to be neither the brigands no
the extorvioners which your paper would denict us These, then, are the outstanding facts which interest
and affec the farmer. Hog-raising pays handsomely, and affect the farmer. Hog-raising pays handsomely,
and there io among packers that healthy comptil and there ie among packers that healthy competition
for hogs which insures to the farmer the fullest valu for his hogs week by week, no matter what the seaso
or where be may market them. (Per F. J. Smale. Ass't Gen Limited. Toronto, Jan. 3rd, 1906.

## How to Increase Lean Meat.

Leam meat is muscle, and cannot be increased by any system of feeding, writes $\mathrm{Mr}_{\mathrm{r}}$. John Wright-
son in the Agricultural Gazette. It is a desidera tum that carcasses should be full of lean meat, and it is important to study how this can be secured,
as it mo doubt can be. There is one point which must be kept in mind, namely, that, although the absolute muscle cannot be increased, it can be so interlarded with fat, distributed between the larged in volume and weight. In this sense lean meat can be increased and rendered more palatable and digestible. Muscle, or lean, appears to be a and digestible. Muscle, or lean, appears to be a
matter of breeding rather than of fattening, and no doubt is affected by exercise, as in the case of mired by butchers. They lay on fat in lumps which destroy the symmetry of the carcass, and coften leave gaps or hollows which want filling up. Firm handling, and a level, well-proportioned carcase, free from gaudiness, indicates fat well interspersed with lean, and are features which alwaye command the attention of judges. To say that amimals should be bred for lean meat, means
that they should be bred to lay on fat in the proper places, so as to produce an economical carcasis, or to develop what was termed by the
early breeders utility of form. Like milk thi is more matter of breed than of feeding, but like milk, it depernds a good deal upon feeding and management, as well as breeding. A young growing animal is more likely to increase in
muscle than an adult animal, and hence the preference for young steers. Neither should exercise be forgottem. Pigs which are allowed to roam
freely during their growth always develop hams freely during their growth always develop hams
abounding in lean meat; whereas closely-confined pigs yield hams which are often a mass of fat, mountain sheep, and Down sheep, are full of lean meat, while the lowland breeds are disposed to
accumulate fat in undue proportion on the loins accumulate fat in undue proportion on the loins
and lack. This may be said to be a matter of breed, but it is also a matter of activity. It may be lost by long-continued breeding under con-
ditions which encourage indolence. Just as truly ditions which encourage indolence. Just as truly
as exereise and freedom encourage muscle in horses, wo must it with young cattle, and a natural free . life and plenty of wholesome food, no doubt, incourage the formation and full develop-
ment of lean flesh. On the other hand, confine ment of lean flesh. On the other hand, confine-
ment and fattening from birth must lead to atrophy of the muscles, fatty degeneration of the tissues, and an accumulation of fat instead of $\xrightarrow[\text { Ani }]{\text { lean. }}$
for the dimals should be bred for lean meat-that is for the disposition to lay on fat in the right
places-and this is within the powers of breeders,
as it is indicater as it is indicated by the touch or handling. starchy or farinaceous foods are called fat-formers For an adult animal flesh-formers are less necessary than for growing animals, because in youth
the muscles are still growing the muscles are still growing. An adult animal
uses nitrogenous or flesh formers for producing
fat at, as his flesh is already formed, and all he re-
quires of nitrogenous food is sufficient to repair the waste of the system. This he can find enough of in Darley meal, which, although farinaceous
contains a fair proportion of the nitrogenous ele ment. Bearing in mind the fixed and anatomical haracter of mascle, it is difficult to see how any ystem of feeding can greatly alter it. Also, re haracter of fat, it is easy to see how it can be -ncouraged at will, so that, as Sir John Lawes ang ago stated, fattening is actually the accumuvidently fat in the animal body. It would be
errons to say that it is the accumuation of erroneous to say that it is the accumu-
lean the animal body, and it never 2y. special dietary, therefore, give up the idea that

Wour paper very much indeed, and think it anthy maprovige. I Io not know of a general farm
that io equal. I can show it with pride to


## The Four Great Beef Breeds.

SHORTHORNS.-Continued
Favorite (252), a light roan bull, born in
1793, died in 1809, the greatest of old-time sires and the most potent in improving old-time sires,
anded, has been described as "a large, massive bull, of good good loins, and long, level quarters. His shoulderpoints stood wide, and were somewhat coarse, protruding into the neck; his horns were long and called him 'low in the back.' Waistell suid he a a grand veast, with a good coat, and as good Bolingbroke (86), called by Coates the sest bull he ever saw, and the dam of Favorite (252) was
Phœonix, daughter of Lady Maynard, by Fol-


Charles and Robert Colling.
gambe (263), a white bull with a few red spots. well system of inding of Phomix that the BakeFavorite, having a double infusion of the bloud of Foljambe and of Lady Maynard, represented the first fruits of the application of that system meet with Mr. Colling's views that he began with this bull a most extraordinary course of inbreeding, using the bull for years indiscriminately upon his own offispring, often to the third, and in one
or two instances to the fifth and sixth generaor two instances to the fifth and sixth genera-
tions. His get were the most celebrated Shorthorns of their day, and his descendants constitute a large percentage of the foundation stock upon back to his own dam, the produce being the heifer Young Phoenix, who was then bred to her own sire, and the issue of that doubly incestuous breeding was the famous bull Comet (155), the
first bull to sell for $\$ 5,000$. irst bull to sell for $\$ 5,000$.
The Duchess Cow," and the second dropped by that was afterwards castrated, and became famous as "The Durham Ox"' (a roan, like his was a grade cow, probably exhibition. His dam her color was black. This steer was fed up to his greatest flesh-taking capacity, until, at nearly five years old, he had attained a reputed weight
of 3,024 pounds, when he was purchased exhibited and carried throughout the country in a large van, making his owners much money, ow-
ing to the crowds ing to the crowds coming to see him at an ad-
mission fee. After five weeks travelling changed hands at the price of $£ 250(\$ 1,250)$ and it is said, could have been sold a few unonths ater for $\$ 10,000$, which was refused. He was

cident, and was slaughtered soon after, his nesh, tallow and hide weighing a total of 2,620 pounds, at the age of eleven years, and ainful lameness. of "The White Heifer that Travelled," born in
1806 , and reared by Robert Colling, was annther 1806, and reared by Robert Colling, was twinned of the get of Favorite (252). on exhibition, her live weight being given as Her portrait shows her to height 1,820 pounds. Her portrait shows her to have been very heavy
in the front quarters, considerably lighter vehind, and quite patchy on the rumps, but of great size and substance.
THE KETTON AND BARMPTON SALES.

THE KETTON AND BARMPTON SALES. The dispersion sale, in 1810, of the Ketton traordinary agricultural prosperity, and- the sale,
which was well advert marked an era in which was well advert marked an era in selling for an average of 40 4s. 7 d. , or $\$ 745$
 the cattle were got by Faworte 52 ) and his
son Comet (155), and a large proportion of the fon Comet (155), and a large proportion of the females were in calf to Comet, who sold for
1,000 guineas $(\$ 5,000)$. The highest-priced female was one of his daughters; Lily, a white three-year-old, sold for 410 guineas. Comet was the great attraction of the sale, and his close ite (252), out of Favorite's (252), dam it is waid did not detract from his value or appearance. He was a light roan, with red neck, and it was ad-
mitted by eminent breeders that he was the hest mitted by eminent breeders that he was the best dicate of four breeders. Robert Colling, of Barmpton, in 1815, made a
partial sale of his stock at partial sale of his stock, at which 61 head of
 (360). While the Shorthorn history of this early period deals mainly with the works of the fsollivg brothers, there were many other breeders of the
same period that were doing intelligent work in same period that were doing intelligent work in
improving the breed. "Whether the Collings really earned the right to be called the first greent improvers of the modern Shorthorn, or whether they gained their fame mainly by reason of the
novelty of their methods and their terprise as advertisers, the fact remains en more pedigrees in the English and American herdbooks trace to the Colling herds than to any and their superior judgment and skill c.s mbinet, was generally acknowledged and admitted hy con-

## Oullook for Sheap Industry

 been going on for a quarter of a of sheep has tisticians have been pruarter of a century. Stanumber of sheep in various countries, which, in nearly every case show a falling of in recent ed is not at this decline can be suddenly urresttime to restock. The demand for mutton take lamb is growing in this country, and will ofiset any tendency towards an oversupply for some taken by those who think it is pessimistic view out of the sheep business, we consider it to get time to stay with it. To those who intend say : Begin on a good foundation, and stick to it through thick and thin. The sheep thdustry like every other, has its ups and downs, but every "up" is higher than the previous one, and no "down" goes as deep as the one that went bemade money this year, the extensive flockmastersof the West being especially fortunate. Those siderable time, who have seen the day when they could not part with their sheep as a gift, and
were obliged to sell wool at less than one-third of its present value, are most deserving of congratulation. This unprecedented period of pros-
perity has awakened a world-wide interest in perity has awakened a world-wide interest in
sheep, and has helped to break down the barriers of prejudice which have prevented them from be of prejudice which have prevented them from be-
ing estimated at their proper value. Among
farmers a new lifo has been infused into the sheep farmers a new life has been infused intor the sheep husbiandry. The high price of wool, the increased
demand for mutton, and the value of sheep as a soil restorer, have convinced these tillers of the soil that the sheep is the most profitable of tarm
animals. From every section of the country, esanimals. From every section of the country, es-
pecially from the corn-belt region, cone roports pecially from the corn-belt ragion, come reports Anything which could be considered c:apable bearing a lamb has been placed at a premium. It must be admitted that a good deal of stuff the number of small flocks which have been started this season. The wisdom of this policy is questionable, but we have no desire to dissuade
those who can afford to make the experiment, those who can afford to make the experimen
though it were to be wished that the desire increase the number of sheep were less persiten than the efforts made to improve the quality. The demand for long-wool lambs has been a
feature of this year's Western lamb urade. The desire to produce a dual-purpose sheep is doub less a strong factor to be reckoned with in ex-
plaining this demand. Many flackmasters have plaining this demand. Many flackmasters have expressed a wish medium-wool rams for this purpose, while others are on the lookout for Cotswolds, Lincolns or Oxfords, as a means of improvinz the
size and frame of the finer-fleeced types.- S . size and fram

Breed as a Factor in Feeding Animals.

## By Prof. G. E. Day

Nearly every farmer who feeds stock bas his favorite breeds, and is armuly convinced that certain breeds are more proutable little doubt that, ione breeds of stock are better adapted to cartain conditions of climate. systems of manage ment and environment than others, it is a significant
feet that when different breeds of flesh-producing animals have been fed side by side under the same condihas been discovered, so far as ability to make econom-
ical gains is concerned. Even in such extreme cases as where steers possessing ith steers of the purely beet been led in comparisonatage in economy of gains on the part of the beef breeds has been found to exist. Such a statement seems almost incredible, yet investi-
gators have never been able to show that cattle of the gators have never been abh more cheaply than those of
beef breeds produce fiesh other breeds. It is only when it comes to marketing
the cattle that the difference between the different classes becomes apparent, the beef breeds producing much
superior beef, and consequently selling for a much superior beef, and higher price per pound.
Comparisons of the breeds of sheep have not been very fully worked out, but, so far as they have gone, the ind
true. swine, experiments with breeds have been con-
In sucted by the Ontario Agricultural College. At this institution six breeds of swine were compared as to the cost of producing 100 pounds gain live weight, and the
table which follows shows the standing of the breeds table which follows shows the standing of the breeds
with regard to economy of production in each experiBreeds arranged in order of economy of production. 1st Exp.-1, Berkshire : 2. Tamworth ; 3, Poland China;
4, Duroc-Jersey ; 5, Chester White ; 6, York2nd Exp. -1, Bhire.
4, Berkshire : 2, Tamworth: 3, Poland China;
Chester White : 5, Yorkshire ; 6, Duroc1, Yorkshire : 2, Berkshire: 3, Duroc-Jersey 3rd Exp.-1, Yorkshire : 2, Berkshire ; 3, Duroc-Jersey
4. Tamworth ; 5, Chester White ; 6, Poland China.
4th Exp. -1, Berkshire: 2, Tamworth; 3, Yorkshire ; 5th Exp.-1, Berkshire ; 2, Yorkshire ; 3, Duroc-Jersey :
4. Chester white ; 5, Tamworth ; 6. Poland China.
If we considered only the Ontario experiments, we would come to the conclusion that the Berkshires, Yorkshires and Tamwerths had scored a decided advantage,
but when we refer to the Iowa Experiment Station's but when we refer to the lowa experiment
tables, in similar experiments, we find the Dey tables, in similar experiments, we ang place, while the
and the Yorkshire taking a leading If
If.
Iame is anything in the breed to which swine If were is anything in the breed to which swine
betong which influences their ability to turn food into
feesh, hwir is it that some one breed did not inaintain

is only one way of accounting for the variations which
occurred in each experiment, and that is on the ground of the individuality of the animals. There is little doubt, therefore, that animals possessing good consti-
tution and quality will make economical use of their food, no matter what breed they may belong to. When it comes to the question of marketing, we find that, as in the case of cattle, there is a
marked variation in the kind of moat furnished by some breeds as compared with others. The carcasses from swine used in the Ontario experiment were sent
slaughter-house and critically compared by experts, and the following tables show the breeds arranged in order the English market
> fecture of Wiltshire sides.

1st Exp.-1, Yorkshire ; 2, Tamworth ; 3, Berkshire ; 4, Duroc-Jeres ${ }^{2}$ 5, Tamworth; 3, Berkshire; 4, White. 1, Yorkshire; 2, Tamworth; 3, Berkshire :
4, Chester White ; 5, Duroc-Jersey ; 6, Poland China.
3rd Exp.-1, Yorkshire ; 2, Tamworth ; 3, Berkshire ; 4,
4th Exp.-1, Yorkeyhire: 2, Tamworth; 3, Berkshire : 4, Chester White ; 5, Duroc-Jersey ; 6. Poland China.
-1, Yorkshire : 2, Berkshire ; 3, Chester White : 4. Tamworth ; 5, Duroc-Jersey
6. Poland China.
Bth Exp.-1, Yorkshire ; 2, Tamworth ; 3, Berkshire ; 4, WhiteA mere glance shows that there is much more conones. The Yorkshires and Tamworths hold their place at the top of the list in each of these tables, except
one, where the Tamworths were placed as low as one, where the Tamworths were placed as low as
fourth place. The Chester Whites, Duroc-Jerseys and Poland Chinas appear at the bottom of the list in nearly every case, being essentially fat-producing breeds,
and suitable for the production of the type of hog popular in the United States, but entirely unsuitable for supplying the markets to which Canadian packers cater. The Berkshire, it will be noted, holds a sort of intermediate place between the bacon and fat type. Though unsuitable on the whole for making the best meeting the requirements of the packer than the three

How Shomid Breed Associations' Grants be Divided?

> [Froma our Manitoba and Western edition.]

There seems to be some misapprehension in the minds of many as to the principle underlying the principle is to advertise each particular breed as
much as possible, and to stimulate emulation much as possible, and to stimulate emulation tensely loyal to their Province or locality, would have the grants divided pro rata, based on their
contribution to the association's funds, which, contribution to the association's funds, which, if
followed out to its logical conclusion, would mean the dissipation of the grant into a lot of small prizes at local fairs, with no correspon
fit to the breed association contributing
We are entirely in accord with the idea that the Provinces should each receive a share of the
association's grants for shows, the size of that association's grants ior be based on the membership and registration fees paid, and that the members of the
association in each Provincial live-stock associa tion should advise the executive of the breed association as to how such grants might be dis-
tributed, but believe that the final allotment should be in the hands of the Dominion executives, which, of course, should be representative If the methods.

If the methods advocated by some were followed out, the Provincial associations would have the
handling of the moneys, which would then be divided among the smaller shows, and might go
into the pockets, via the show-ring of cours of the breeders happening to be on the live-stock associations' executives, and the advertising re-
sults for the breeds would be nil ! At present, the Dominion Shorthorn Breeders' Association gives annualy from dollars to Manitoba, which has generally
dred
been allotted to Winnipeg and Brandon. The suggestion has been made by some interested people men enthusiastic for the success of their local berry, and shows of that class, should participate
in these grants, a suggestion that is ridiculous in these grants, a suggestion that is ridiculous
when the basic principle-advertising the breed in competition with other breeds-underlying such
grants is clearly understood, and also that such shows are merely county shows, and local in their
patronage, although striving to do good work in their respective districts.
Time brings a good many changes in its and five yriars hence opinions changes in its train. and five years hence opinions may, hy the igic of
events, be forced to change, but from an experi-
ence of the various shows in the prairie country. events, be forced to change, but from an experi-
associations to make grants, bearing in mind the breeders to each breed, and not of individual Regina, Calgary and Edmonton. The breed associations would do well, however, to stipulate to the quintette of shows mentioned, that the size of the grant would depend somewhat on the so as to ensure and to prevent the recipients from pruning down their own list and substituting the breed association grant therefor. Further, we would suggest associations, that the major grant be alternated between shows, so as to get the maximum amount of advertising, by giving the big end of the grant allotted to each Province, or all of it to Winni-
peg in 1906, to Brandon in 1907, and similarly to Calgary, and Edmonton. By such a method the best herds would move around more, and bring the breeds mentioned to the attention of
people who are not yet interested but have the money to invest, and only require their attention to be drawn,

## THE FARM.

## The Farm Labor Ouestion.

That the scarcity of farm help is hampering farm operations, is a fact apparent to all familiar with the agricultural conditions of this of a considerable portion of the available supply is far from satisfactory. Now, we are facing a knotty question, and it rests with the farmers to find the solution.
A recent writer suggests that the source of the trouble lies in the common schools, wherein most or what is taught alienates the child's thought with ambition from rural hife, and imbues him The remedy that manual labor is degrading. the rural schoggested by this man is reform of some reforms are being prove to be effective. Whil I blieve hope wit close to the mark, there are other reasons. The remarkable development of manufacturing indug tries that has taken place during the past few vears has attracted thousands of men away from farm life to places where they secure increased ages.
vative in his that the Canadian farmer is conser detriment, and in the methods employed we can tind a key to a partial solution of the problem.
We find that the work is generally so planned to keep men employed only about eight months in the year, and the rest of the time they have to find some other employment. They find it in when spring comes do not feel obliged to return to farm life, so the farmer loses his men. Such being the case, does not one remedy life in increasing the earning power of farm labor by the use
of more intelligent business methods? We should put more brains into our work, and plan so as
to economize labor in our stables and fields. Nuch mand faster saving of unnecessary plowing and other by the by the culture, in suitable sections, of some hardy peremnial forage plant like alfalfa. Then,
the work should be so arranged as to find ment for a man during the whole ye find employprofit. To put it concisely, the solution of the of more businesslike methods, thereby increasing earning power of farm labor, and the use of ma-
chinery operated by steam or horse power, or any power other than hand labor, wherever possible.
$\begin{array}{ll}\text { Missisquoi Co., } & \text { Que. } \\ \text { C. A. WESTOVER. }\end{array}$

How to Reach the People.
 - $-1-1$

## tion.

## ople

Soil Fertility.
$\qquad$ nution at Washington in November. Dr. Cyril Hention at washins, of Illinois, read a valuable paper on
Hopkin
.. Soil Fertility in Relation to Permanent AgriSoil Fertility in Rela
culture," saying in part ". Are there fields in Virginia where once great crops of corn were grown, and now no one cares
lo pay the taxes? Are there farms in the mous Mohawk Valley that can be purchased for
less than the farm buildings once cost? Are there less than the larm in the Western Reserve which
agricultaral lands in
were sold a half a century ago for $\$ 100$ an acre, ow bought for $\$ 50$ or less? Are the wonderiul prairie soils of the West producing less and less?
To all these questions men who know the facts
answer, yes.
Without agriculture America is nothing. tensive agriculture may be supported by large
cities. Europe may support her farms from the ceds and phosphate rock sent from America The United States can never hope to draw from
The colonies for supplies of foods and fertilizer. its colonies for supplies of foods and fertilizer.
The dairy system of farming, where only butter is sold, will nearly support itself, but we can-
not all live on butter. If meat and milk are sold, and feeds are purchased, fertility is main-
tained, but meat and milk are not sufficient. ained, but meat and milk are not sufficient.
" Eighty pur cent. of the farmers sell wheat,
orn or cotton, and probably always will. Let. no man presume that he had found a permanent system of agriculture that will not produce
bread and clothing. pal promulgated by the Bureau of Soils that soils contain sufficient plant food for good crop
yields, and that to-day pot cultures show esults from non-nutrient substances like carlonaccept the evidence of chemistry and mathematics and the experience of ages regarding soil depletion. four thousand miles deep in theory. In practice however, it is limited to a few feet in depth, and the process of nutrification is limited to a iew inches. Given six to eight feet of soil, open and
retentive of water, with a rich surface, and we can grow crops, but of what use is a rich subsoil the surface is gone? The Rothamstead expend on capillary rise of soil solutions. They fiso found that the main loss of nitogen was
from the surface soils. The mixture of sub- and surface soil by earthworms is another theory, but investigating in Illinois to determine how deep mifferent plants feet, and I urge assistance in this about using fertitity much below eighteen inches.
"I start with the premise that we cannot grow the great staple premise that we cannot. nitrogen. The general farmer may buy water,
hut he should never buy nitrogen. In our Illinois soils, to a depth of seven inches, there is less
than twelve hundred pounds of phosporous, and more than thirty-six thousand phounds of pous, and
sium. One
One hundred bushels of corn an acre sium. One hundred bushcls of corn an acre
would exhaust the phosphorus in fifty years. The
potassium would last nineteen hundred years, and potassium would last nineteen hundred years, and
the next seven inches of subsoil has enough for another such term. Our potassium is, therefore,
permanent, and our nitrogen we can supply. The permanent, and our nitrogen we can supply. The
problem, therefore, first, is to utilize the potas-
simm. We hope this may le accomplished through COMMERCIAL FERTILIZERS.

## food. Next comes the problem of commercial plant The truck farmers of New Jerey will do well to follow the teaching and advice of Direce tor Vontheos and

 tor Voorhees and use liberally of commercialnitrogen, but for the farmers of America to try
10) raise the $2,500,000,000$ bushels of corn upoun commercial nitrogen is not only absurd, but im-
bossible. There is no great nitrogen problem. It was solved by Hellriegel and Atwater fiftern
ears ago. Limited areas of swamp lands noed
notassium, and German salts may be used. The analysis of forty-eight samples of Maryland soil tave practically the same determinations of agriculture is the element phosphorus. From available information, its absence limits the rro-
duction of fully 80 per cent. of our soils. The duction of fully 80 per cent. of our soils. The
supply is at present drawn from hasic slag. hone
and the natural phosphate deposits of the Central Sinthe natural phosphate deposits of the Central A WOFFUL WASTE.
More than one and one-half million tons are More than one and one-half million tons are
aneme and more than two-thirds is exported. Is wit this exportation America's greatest crime
igainst her prosperity? And what is being done ainst her prosperity? And what is being done
th this 500,000 tons of rock? It is mixed, for ton, with sulphuric acid, and that which Is $\$$ at the mines is reduced to 60 per cent.
I piaster and 125 pounds of phosphorus a ton.
iller of two tons more is further added, and the
no more phosphorus than the original ton of raw rock It is said that raw rock is not available, Make it so ty the free use of organic matter.
am grateful to Directors Patterson, of Maryland and Thorne, of Ohio, for planning systematic, long-termed experiments with raw rock. Patterson found, when turned under with crimson clover, it was as valuable as bone-meal; and Thorne
found, when used with stable manure, it was more profitable than acid phosphate. In Illinois the profitable than acid phosphate. In Illinois the
results are essentially the same. So far as 1 can learn, those who have used the raw rock with warded beyond thecir expectations. Howe been rewill American farmers pay $\$ 80,000,000$ a year for fertilizers containing less total phosphorus than and export to Europe for $\$ 4,000,000$ at the mine,
Two dollars an acre is not counted a large hill for complete fertilizers, but $\$ 2$ an acre would pay for a ton of raw rock every four years, and
this would actually double the phosphorus content of the Illinois corn soils in twenty years. The following experiment is interesting :

|  | 1902. 1903. <br> Corn |  | $\begin{aligned} & \text { 1904. } 1905 . \\ & \text { Oats. Wheat. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Plant food applied | 37 | 60 |  |  |
| Nitrogen | 35 | 60 | \%0 | 31 |
| Phosphorus | 42 | 73 | 73 | 39 |
| Potassium | 38 | 56 | 63 | 3 |
| Nitrogen-phosphorus | 44 | 78 | 85 | , |
| trogen-potassium | 40 | 59 | 66 | 30 |
| Phosphorus-potassium | 50 | 75 | 70 | 38 |
| Nitro.-phos. potassium | 53 | 81 | 91 | 52 |
| Average gain for phosphorus | 1 | 4 | 11 | 6 |
| A verage gain for nitrogen..... | 10 | 18 | 15 | 14 |
| Average gain for potassium. | 6 | 0 | 0 | 1 |
| Value of increase .............s | \$3.85 | \$7.00 | \$5.00 | 814.70 |
| Average gain for phosphorus when added to nitrogen. |  | 30 |  | 21 |
| Average cost of 25 pounds phosphorus rock phosphate |  |  |  |  |
| amed bone-meal |  |  |  | 250 |



Plank-frame Barn.

## A Plank-frame Barn.

In answer to your request, I send you photo-
graph of our plank-frame barn. I might say
that there is not a stick of scuare frame. The basement posts are three pieces of Flank. $2 \times 10$, spiked together.
The beams are made of five pieces of plank,
spiked together, breaking joints every spiked together, breaking joints every four feet
spiked every 20 inches, spikes being 4, 5 and

The main posts, purline posts, are $3 \times 10$. 'Th
deck plank $2 \times 12$ center, $2 \times 8$ ends.
The end posts are made of plank $3 \times 12$ with The end posts are made of plank $3 \times 12$, with the main posts. False rafters and beams, $2 \times 10$; girts and rafters, $2 \times 6$; braces, $2 \times 4 ; 70$ bolts
$\frac{7}{4} \mathrm{in}$.10 im . long ; 100 bolts $\frac{1}{8}$ in., $4 \frac{1}{3} \mathrm{im}$. long 2 kegs
kegs of 4 -in. spikes; $; ~$
4 -in. spikes ;
2 used in putting up frame. The barn was raised with a movable scofo The barn was raised with a movable scaffold
piece by piece.
JOHN C. ASHTON

Cottle versus Chemical Farming. To the Editor "Farmer's Advocate ": ". agriculture, the best means of increasing and maintaining the fertility of the soil is an interesting subject, becomes is becoming more important as age in Ontario soarcer. Most
Province have known of no kind of fertilizing but by animal manure and plowing under such crops as clover. The temptation to use chemicals is not strong where live stock is raised, but where
animals have been dispensed with chemicals have been tried instead.
I was raised in the central part of Ontario, and have worked on and known of some 1894 I began to make my home on the west end of Long Island, N. Y. State
The soil around my early home is varied, such as clay, sandy, and even gravelly soil. The soil
of Long Island, where I have been dwelling, is of Long Island, where I have mostly of a sand and gravel kind. The fertilize used in Central Ontario is animal manure and any roughage from surplus vegetable matter. The chief means of enriching the lections of New Jersey State where chemicals are used with sod and ma nure, but the most convincing comparisons are by the use of either animicals on the other, irrespective of the kind of soil.
Having been taught that animal manure and
clover sod were absolutely necessary to the fer tility so the it was strange to see people sprinkling a dusty powder in a row, or putting a handful in a hill. A kind of intuition gave me an impression that the theory and practice were
wrong. However, I took time to watch and conwrong. However, sider results during seven years. I did not force conclusions on the advocates of the chemical theorv, but let results speak for themselves. The agents were, first, the cost of putting on the aniagents were, first, the cost of putting on the ani
mal manure; second, there would be no need of mal manure; second, there would be no need of help to care for them. It was said that the cost of putting on animal manure would buy the
chemicals for the land, irrespective of the size of the gronnd to be fertilized. The better to understand Long Island conditions, it must also be 50 said that peavines and notato-tops, etc., are, all
20 carried off the ground where they are produced, as 20 carried off the ground where they are produced, as
00
they interfere with the working of the land for a second crop the same season. The green-pea season is over by the first of
July, and early potatoes by the middle of August. The con.bined cost of fertilizer and rent forbid the sod condition; all the land
must
be e cropped $\underset{\text { must }}{\text { me }}$ ever. cropped least amount of fertilizer allowed is half a ton per acre
every year. With every year. Wenth
these requirments and conditions, the following are some
of the results, and they may be taken as a fair average where the conditions were similar.
The resulting condition of the land was that of sundried brick. Every
particle of seemed
pletely to be comstirring was necessary to retain moisture and enable the rootlets to permeate the soil. An eleven-acre
field of hard corn, which was considered very good, and would yield nearly 50 bushels of shelled corn to the acre, was produced at a loss ; the reurns, inciuding stalks, would be about \$35, and that amount. good average crop of marketable tubers is 150 bushels per acre, at 50 cents per bushel. The
cost of producing is, fertilizer rent and marketing, \$12. This leaves less than $\$ 25$ per acre for work and a surplus to help other crops. Last summer I saw a crop of polatos which had been well fertilized, but did not
yield 50 bushels per acre. Now it is a general practice to put soda onto crops which have been put in with fertilizer in which there is sode. The is that the amount of chemical-fertilizer farming each year, and both the land and the tiller be come poorer. As to the results to the fertilize producers, we ask them to be honest enough to
hopelessly in debt to the agents is a large one, and carries with it some very tragic stories.
A look at the affairs of the live-stock farmer
gives a much brighter picture. I have gone over last sixty in fertility. While chemicals steadily increasing good yellow turips, calle good yellow turnips, cattle and clover will pro-
duce a crop of generally 600 and sometimes 1,000 bushels of turnips to the acre. Wheat ranges from 20 to 30 bushels per acre , barley peas and oats, from 30 to 60 bushels. While Long Island tenants are being put off farms because they cannot pay their fertilizer bills, and have years of debt before them, the same class in Ontario are steadily becoming proprietors
There are two substantial factors in favor of
ive-stock fertilizing. One is that the fertilizerproducer is a permanent, sure investment; and the producer is a permanent, sure investment; and the
other is that the fertilizer produced lasts more than one year. The chemical kind is principally useful for only one season. Another thing about the cattle means is that half of it-that by both even more cheaply than the chemical kind. serious objection to the chernical farming is lack of intelligence applied. Repeatedly have I seen a man drive to a field in the morning with a
load of bags, distribute them along the end, be gin to plow, and before night the crop was inand this on land which the man had never seen or known of before; and in more than half such in-
stances the crop did not pay the cost of the stances the crop did not pay the cost of the
chemicals. How different this is from the intelligent manipulating of soil by the use of clover. and manure. The chemical treatment. of the soil is in line with the precarious depandence on specifics. The
one who depends on patent medicines for health is on a doubtful path to health; so it is with tonics in animals' feed, and chemicals for soil fertility is pursuing a doubtful course. Even chemists themtheories advocated. The poverty of the land so treated, and of the farmers who use the chemicals, both prove that there is something very erroneaus in such farming. Much more should be done in
testing by experiment stations before any farmer can depend on this method. Three important results must be produced, yet, by chemicals as fer tilizers, they must produce more permanent
sults, they must be lowered 60 per cent in present cost, and they must produce larger crop and vegetables of very much superior quadity to what they have hitherto done.
The results in the use of chemicals on the land point to the inference that they are not plant rendering the plant food in the soil more avail able. One of the most striking differences b tween the chemical farmer and the manure farmer is that the chemical man depends on chance, and
few read or take an agricultural paper, while 90 per cent. of the live-stock men do take such a paper. I have been able to compare a Canadian paper with the Yankee ones, and I must say that
Canada farmers are being as well iniormed as the Yankees are. I am still looking for a good chance to compare two Canadian papers, but, although I have visited about twenty farmers' Advocate." and 1 have visited farmers in the Advocate and 1 have visited farmers in the ford County nearly as far west as Woodstock.
The conclusion to a publisher is that the "Farmer's Advocate"" man must have been a hustler
or the "Farmer's Advocate" fills the bill so well that " no other need apply." If the "Farmer's the conditions which are here. it is entiteled to if Springfield, I
Note.- The above contrast. but ween the efficcts
of a prolonged dependence on chemical fertilizers
on the one hand, and live-stock manure and on the one hand, and live-stock manure and
clover on the other, is not, we believe. overdrawn,
and wir correspondent's comparison of the effects of the two systems upon the hustandmen is borne
cut iby not a few instances "ithin our own knowlcoge. For the great majority of farmers, re-
liance upon purchased manures lads to shiftless-
ness and poverty. It may be just as well in
passing to correct a possible misimpression some might gather from the abow. 1.ater, that chemibrands of fertilizers are not stimulants in any quantities of th. ....essary elements of plant icool. proper physical conditions of the soil. without
Which plant food is applied to little purposes.
While ve do not believe the gu,



Cement Silo Satisfactory
You ask some questions about wooden and cement silos. Silos are gone well past the " perimental stage, so that in any district where
corn matures, no one who winter feeds cattle for either dairy or beefing purposes can most profitably do so without corn silage. I am fully convinced of this, not from observation alone, but from actual experience as well. stave one, 16 feet by 30 feet, at a cost of $\$ 80$ for material which to-day could not be obtained for less than $\$ 120$. For a few years nothing
could keep ensilage better, and there was not a particle of waste, but the last two years not a particle of waste, but the last two years slaves
have been decaying, and possibly another year will end its usefulness. Where gravel can be obtained, I would istrongly, recommend building cement silos. With the steel rings now in use,
any one accustomed to cement work can erect them, and they keep silage satisfactorily. 35 feet 14 feet in diameter, $2 \frac{2}{3}$ feet below and 35 feet above ground. The wall is 18 in. thick to
the surface of the ground, then, beginning with 1 foot, it tapers to 8 inches at the top. To the in-
side was applied, with a brush, a coat of thin side was applied, with a brush, a coat of thin
cement. This makes it air-tight, and while a coment. This makes it air-tight, and while a surface, it requires a very much greater amount of material and labor. In the center of the bottom a hole was dug down to sand, and filled with stones. This carries away any excess of mois-
ture in cases where the corn is put in wet green. The cost of building this silo was $\$ 5.00$ for every foot in height. and 1 had to supply
gravel on the ground, 2 horses and 2 men. This gravel on the ground, 2 horses and 2 men. This
help, with three men supplied by the contractor help, with three men supplied by
filled two rings, or five feet a day
The chief advantages of a cement over a wood-
en silo are that it is practically everlasting, it n silo are that it is practically everlasting,
won't collapse or blow down in dry weather won't collapse or blow down in dry weather, it the most economical to build. ROBT. McENEN.
Middlesex Co., Ont.

## Cement Silo Experience.

the Editor "The Farmer's Advocate":
With regard to my experience with wooden With regard to my experience with wooden
and cement silos, cost of construction, etc., I perform. My first silo (a wooden one) was buil in 1890. It was a square silo, with the corner a heavily-stocked farm in the dry seasons we perienced in the past, when corn flourished and other things wilted. While my experience was
most gratifying, yet there was always considermost gratifying, yet there was always consider-
able waste and loss in the corners. It was also quite noticeable in a few years that a wooden
structure for silage would not be lasting and structure for silage would not be lasting, and when I Sold my old stock farm near New Dundee.
in 1901, the inside lining was very badly decayed -so much so that it required remodelling. Having once experienced the benefits derived firom the
use of a silo, I Celt that I could not well get When I purchased my present farm there was no silo on it. I built che the first year, con-
sidering it one of the most important improve ments rerguired on a well-regulated stock farm. had gathered considerable information of valu
in regard to the different constructions of silo and I felt folly convinced that a round of silosent silo was the most satisfactory and lasting.
have now filled my silo for the fourth time; an more than pleased with the results, and have no
regrets to offer. The chief things in the tavildin of a silo are permanency and convenience. hines everything to be desirid alant silo coninor rust will corrupt it." It is storm, fire, de-
cay and vermin proof, and if property constructed
it will last almost an indefinite time. There is not a particle of waste anywhere. warept as in
all sills.s. a litle at the top, not the slightest
along the sides; there being no corners then is


fill we reached the top. Every $2 \frac{1}{2}$ feet a $\frac{1}{4}$-inch iron rod was put in to prevent cracking. We
used 28 barrels of cement in the 30 -foot wall. about 33 barrels in all, including cement floor
and plastered on the inside. It will generally and plastered on the inside. It will generally
take from 30 to 36 barrels for a silo the size of take from 30 to 36 barrels for a silo the size of the cement needed considerably. I used a Hodgert mixer and steel rings $2 \frac{1}{2}$ feet wide, which
makes a very complete outfit, and you can build makes a very complete outfit, and you can buila
a silo any size, from 10 feet upwards. A person a silo any size, from 10 feet upwards. A person
should never stop short of thirty feet high, rather go higher. I have put a wooden top on mine. 6 feet high, and a round roof, which makes very neat and attractive. I would rather go
higher with the cement and no wooden higher with the cement and no wooden top. The
cost of the concrete wall was $\$ 150$, without top. It will take from six to seven days to put up 30-foot silo. It requires four men for a gang;
more can work at it, but you can build only a teet a day, can work at it, but you can build only o in very exceptional weather. must have time to set
Nobody will ever make a mistake in building a cement silo, if properly constructed. Where the fault of the silo, but the fault is in construc tion. A. C. HALLMAN

## Cement Silo Construction

ence and observation during several years past become very familiar wuring several years past concrete silos, believes that these are past the perimental stage, and constitute the proper solufor holding ensilage. part Portland cement to 12 of good sharp bedding in plenty of stones; using steel rings ; size of silo varies according to capacity in tons wanted; walls 12 inches thick at bottom, 6 inches below frost. every an 18-inch footing down bars; five openings for taking out ensilage, $20 \times 30$ inches each, and $2 \frac{1}{2}$ feet apart ; give a coat of pure cement whitewash inside or plaster, with a spectively ; roof flat made of matched parts. resections. so that it can te removed for filling properly built it may be filled in ten days after construction; bottom should slope to center, wher running tile drains to silos is the danger of getting in, causing great waste.

## Cement Silo Approved.

Replying to your letter of recent date, would say that on our farms we have displace w two
wooden silos with cement. and we find the cement wooden silos with cement, and we find the cement
gives altogether better satisfaction, giving no
trouble in shape trouble in shape of repairs. The ensilage is cement being more durable, makes it cheaper the

## Friend of the Power Windmill.

and highly-prized Advocate "' is the most useful have admired its editorials, and an Canada. ropounding questions through counsel given to thost time ago one asked advice as to what power you would recommend for general use on the farm The answer given was, after summing up the evi-
dence for and against, that, aiter all, the power
windmill was the cheapest windmill was the cheapest and most desirable for
farm purposes, to which my own experience oi three years heartily agrees. I am convinced that
harnesing the wind which a wise Creator cause frequency to discharge every reasonable duty is looking around for a substitute for the hors




 $=$ $=2$ $=-2 x^{2}+2$

jandary 11, 1906 The FARMER'S ADVOCATE.
man who has no patience to wait, nor energy t
heep everything in readiness to put on the bel
when the wind blows, had better nut invest in wind power. But to the energetic man, wh emergency, lubricates, cares for and overhauls ma sight, the same as he would his binder in th field, will rarely be disappointed.

How Timber is Handled in Temiskam

I will explain how the timber is handled here 1 described in my last letter how the main draw-
road was cut. Ii this is well done the work is well begun.
are placed at work. Assuming that you hav quire abbout 85 men to keep your teams busy. The first work will be to get the camps and stable
in ceadiness, comprising good solid floors, and stalls and mangers for the horses, and also good comfortable floors for the camps, and sufficient sleeping berths for the men. Generally they
place those in tiers of three, one above another place those in tiers of three, one above another
The lulk of the best men had better be put at this job at once and the rest get up sufficient
wood for the winter. It will requires about
threo stove three stoves-one cook stove and two heaters-to ng wood here is dry cedar and tamarack, using this a very hot fire can be started quickly You must have engaged a first-class cook, who com-
mands $\$ 60$ a month wages, and also a foreman mands $\$ 60$ a month wages, and also a foreman on see that every department of work is proceed-
ng along rightry. When everything is ready to
ng in he orders them out, and then he selects each gang in order. There must be two sawyers,
two trail cutters, two skidders, and one chainhearer. Besides the teamster, in each gang you must have at least one expert timber man also He must direct where the best skidways should be and they generally cut those skidways out first, to get the teams into the woods. When the good start, and they soon have uptive, have a fine large be an axe for each man except the teamsters and the foreman, two canthooks and one pevie, two
log chains, and also a pair of skidding tonss log chains, and also a pair of skidding tongs,
and the most useful of the lot will be a steel line might mention that all those skidways must be placed so there cam be cut a draw-road to connect
with the main draw-road. If this is well done, large quantity, of logs ready. If you have enough
to keep the teams busy from about New Year's thl the last week in March, that period comprises
the best months for drawing to the river or to he local mills. You can then discharge the
holk of your men; you will i. ist need two rollers
to load the sleighs and two to unload, three men O keep the draw-road in good repair, and a
teamster for each team. Besides, you must still retain the foreman and the cook. The timber here
i drawn on very heavy sleighs. You would
think, by locking at the sleigh, that it would be a very heary load itself. but it is surprising what
: I arge load of timber can be drawn, apparently
anite easily, if the rand is well kent have drawn an example of quite a a large camp,
t think that a smaller number of men and horses Whl make more profit in proportion. I know
?ile man who cut and drevw eight hundred dollars'
corth of timber to the river himself last winter.
will explain in my next letter how we clear this

English as She is Heard

## THE DAIRY.

## An Improved Cheese-curing Room.

$\qquad$ shareholders. During the last four years the sum-
tur cheese has been cured at the Woodstoak, Ont.,
cool-curing station. The value of the shrinkage
saved on our cheese in that time by cool-curing
amounted to $\$ 927.66$. proved so satisfactory that the experiment has similar to the curing-room on a plan somenewhat stock. dry-room consisted of a frame building $52 \times 32$ feet, with a wooden floor. The walls lumber, air space 8 inches, lathed and plastered,
stripped and doubleboarded with matched lumber strd two ply of tar paper between. The ceiling
and consisted of joisting $2 \times 16$ in... supporting a
jointed floor, and lined undeneath with matcred lumber. This constituted the old curing-room.
In remodelling it, the shelf posts and floor were In remodelling it, the shelf posts and floor were
taken out, and the filling up done by the patrons free gratis. From that point we estimate the Cotal cost of repairs. Now, the roof is re-
shingled, the floor is cement-concrete about 5 in thick, laid slightly lower than the ground sur-
rounding the factory titioned off for an ice-chamber. The walls of the curing-room, commencing from
the outside, are constructed as follows : Doubleboarded with inch lumber, air space 8 inches, lumber, two-ply tar paper, matched lumbet, 6-in. space filled with shavings, two ply of damppronf paper, matched lumber. It is intended to of matched lumber on the outside when finally
completed. space ceiling ronsists of matched lumber, $10-\mathrm{in}$. space filled with shavings, matched lumber. Two
galvanized ventilators, 9 inches in diameter, rise from the ceiling through the roof, having closing
slides. slides: this is a very important fixture, as witholl the ventilators the room is subject to be-
come so moist that the cheese mold. There are six windows, with double sash, and board shutters
on hinges. The door is constructed of three-ply of matched lumber, two of damp-proof paper, and
one-inch air space, and padded around the edge with felt another outside door is made of
matched lumber. along the ceiling, to convey the warm air into the ice-chamber. The inside measure of the room
is $28 \times 36 \times 10$ feet, which has a capacity ing about 880 cheese.

## The walls of the ice-chamber are the same as the curink-room, except there are 8 inches of havings instead of 6 , and a double ply of lum shavings instead of 6, and a double ply of lumber on the inside, instead of one.

 inch air space, two ply damp-phoof paper, match-ed lumber. ten-inch space filled with shavings,
matched lumber two The floor has four cedar pieces $6 \times 6$ x 6
nches running lengthwise on the cement, the spaces between filled with coal cinders: then, ten-
inch iosts run across the cedars, and it is floored
with matched lumber and galvanit with matched lumber and galvanized iron, above
which racks are placed for the ice to rest on ; two openings at the bottom convey the cooled air
into the curing-room. The inside measure is 10
ft. 7 in. $\times 27 \times 9 \mathrm{ft}$., which gives a capacity of about 80 tons of ice. Which gives a capacity of
The makn-rom is supplied with six vats and fixtures for stirring the milk, the press-room with
four gang-presses, and both rooms laid with cement floor. The press-room is utilized during the
winter for the manufacture of butter. COST OF REMODFLIING CURING-ROOM AND The cost of cement and labor was $\$ 97.55 ; 150$
bundles of shavings and freight, $\$ 35.93$ teaming terial for woodwork and labor, $\$ 403,46 ;$ making a
manufacturing, which, after paying all other expenses, leaves a balance each year for repairs.
The yearly nake ranges from 185 to 150 tons, this year it is about 138 to of cheese and

## English Dairy Shorthorn Men Draw Up

 Rules.Many who are accustomed to hearing people ueride such a thing as the dual-purpose cow, and a good milker, will be reassured by the following from the Farmer and Stock-breeder. The new
association is made up of men owning. English Shorthorn-Herdbook cattle
The rules and by-laws of the association, as
drawn up by the committee appointed for that drawn up by the committee appointed for that
purpose, were approved of, subject to a few alpurpose, were approved of, subject to a jew al-
terations, and the following conditions, applying to prizes to be given by the association, were unanimously agreed to, viz.
All cows and heifers competing in any class in prize-money, shall be clean milked out to the satisfaction of the stewards at six p. m. on the evening previous to the show.
eifers are to milked in show all cows and ence of the judge, who shall also see each animal's milk weighed; and any animal that does not in the ring shall not be awarded a prize


25 lbs of milk. 20 lbs of milk Cows, 8 years old and
under 4, not tess than.
Heifers, under 3 years 20
Judges, in awarding prizes, great regard to the size, shape, and general apboth before and after milk ing, as the prizes are only intended for animals And it was also agreed that a list of gentle
men who the council consider qualified to acts as judges of Dairy Shorthorns be printed to, acts as to all agricuitural societies, who must agree to select one of these gentlemen to judge any classe
to which is The Dairy Shor book) Association" contributes (Coates' HerdThe aims and objects o? the association. are to promote the breed of the pure-bred Dairy Short horn by the giving of prizes, recommending mation, publishing milk records and other infor time, as may seem desirable to the members of the association.
N. B.-It is not intended to establish any sep-

## Ice Supply at Creameries

The season is now at hand when the creameries reports of Mr. C. E. Mortureux, Mr. F. A. Knowlton
and ther show that members of the Dairy Commissioner's staff, of ice before the creamories have in the past been out
finished. No creamery ha right to solicit the support of milk producers has keeping it prepared to take proper care of the butter by keeping it at a sufficiently low temperature to prevent
undue deterioration in quality. undue deterioration in quality. The age of butter is to
be calculated more by the temperature at kept than by the number of days that may have of the idea that no marm. Creamerymen must get rid ature, say 50 degrees, when the butter a high held temper-
a a few days. If the butter was consumed in the for the butter iot be so important, but it is weeks after consumer, and it ced before the bulk of it reaches the ature one hour, to say nothing of days a high temperwhich it life; or, in other words, the period shortWhen the writer was in England last summer he of Canadian butter is that it does the weakest points high a temperature at the creamery is one well. Too ike cheese, is at its bery serious defect. Butter, unher fermentation tends towards rancidity made. Any furduce objectionable flavors. Fermentation staleness, or reamery the temperature. The temperature in every the lower the better and be kept bslow 40 degrees Now if this matter is being attended to. Our records
how that very few of
ept below 40 degrees.
Creamery owners ar sults if the buyer of the butter finds no fault with the
that it is not the business of the buyer to point these things. In is his businoss to purchase the butter
and to sell it again at a proft. When he has done that he has no further interest in the matter. It is
not so with the creamery owner or the patrons, whose not so with the creamery owner or the patrons, whose
real interest in the butter doos not coase untilit is
dis
 that time will determine whether the demand for it
will bo increased or not ; and demend for any article on account of its superior quality is a most important
 Creamery owners should make sure of having an ample supply
1906. A. RUDIICK,

## The Dairy Stable

At this season of the year, when farmers are making ones. a fow general ideas might help some to avoid be bealthy should be light and well ventilated stable should have as much of a southern exposure as posible, and the upper two feet of the wall should be at least half glass ; that is, it the stable is sixty feet it gives more afternoon sun) there should be four windows eight feet long by at least twenty-four inches ${ }^{\text {doep. }}$ Do
Do not depend on the windows and door for ventilation; the foul air should be carried of above the
table by means of ventilator chutes. Theses ehould be hot less than two feet square, and should run directly o the cupola above the peak of the barn. They should hay is stored, or if they are to be used for hay chutes hell as ventilators, they should be fitted with tight doors, which should never be opened except when hay is being put down; of course, if they are to be used Ventilators should be supplied with slides or doors at the lower end (i.e., the ceiling of the stable), so that one or more may bo closed in cold weather. The windows should be so arranged that the upper sash may
o lowered to admit fresh air. especially in wary weather. I have found it a good plan to have two and eighteen or twenty inches long, fastened to th pper part of the upper sash by a hinge, and havin otches at onto the experience is that we do not need to worry very muc about how to let the fresh air in if we will provide Care should be taken that there is no draft under the cow stable, and this is one of the greatest objec tions I have to a manure collar under the stable. old air is allowed to come up through the cracks in their udders, and I have known cowe that hava hee milking for months to have their udders become sadly caked from this cause.
Some of the other things that should be considere are convenience, warnth and water supply. Try to
have the roots as near the stable as possible, and and the same level, so that they will not have to be carried stable wall the best, but it one has a good foundation there is no reason why a good enough
built with lumber and building paper. The water supp:y is one of the most important all things to be considerea, for cows , MII neanty alway ore the cows in basins, so that they may drink when ever they wish; but if this cannot be ensily managod,
the water should be brought to the stable in some way (pump or be made for
the winter


A Good Milk Record.

##  I would be cellent paper <br> Rank. Name of Cow. Agr. Lbs. of Milk  <br> Wentworth Fremerick stewart <br> I beg to ncknowledge with many thanks the knife Which you sent me as a premium. I am well pleased 

GARDEN 站 ORCHARD.


Apples Suitable for New Brunswick.
short time ano extract from a letter received Fredericton, N . 1 . , who is President of the New Brunswick Fruit-growers' Association, and one of New Brunswick sploneer fruit-growers. He is a
very careful orchardist, and a view of his orchard shows clean cultivation with cover crops as his
system for obtaining best results system for obtaining best results
We have had a fine fall
orchard. The crop though not work in the greatly the last month of growth. The Duchess, Wealthy and Alexander are most generally grow
to supply the market with cooking apoles till holidays. Perhaps we have no one variety that is more generally planted than the Fameuse,
Hardy in tree, fairly early bearer of thowy fruit and very fine quality, with so many good points we will have to look far to get a better variety is a great favorite with many buyers, and on some soils grows very clean. It generally scabs more good to drop for that one faunt, and it is too has disappointed us, being too tender in tree ; top graiting appears to be the only chance for it here.
We are very much in need of one or two kinds to supply the market after January good local way, we cannot think of any that would le generally satisfactory. New ones are being
tested, and we hope to see some yood hairdv king ested, and we hope to. see some good hardy kind
that will fill the bill. With all its drawbacks. cold climate, etc., New Brunswick still offers good
hances for many to grow apples, if they will go it it in the right way." i. e., a variety suitable for winter that will be of
good quality and perfectly hardy. No one variety has so far been decelopedt that is equal toricty Mc-
Intosh Red in quality, will heep until April., and prove hardy too. The Milwaukee is a good-look
ny arple, that will fill the bill for cooking until March, and it will sell readily, no doubt. It,
hoverere, is not a dessert apple. 1 It conld quite
properly be called a winter Duchess. The tree is properly be called a winter Duchess. The tree is
perfectly hardy The Northwestern (Greening is
another excellent hardy winter apple. mother excellent hardy winter apple. As grown
at the Exprerimetal Farm, Nappan, N. S., how-
ever, it had a tendency to go bad at the core Ittor Jamary, somechine after the fashion of the
iideon in its season. This trouble is not noticeable in this variety grown in this section, conse-
quently that may not be a fault when grown in thought much of, on account of being a shy bear
er There seems to be a wide diference in the
bearing hatit of trees of this varietv. Sno trea bearing habit of trees of this variety. One tree
on the Fxxperimental Farm, Nappan N. S. plant-
od in 1890 hos fruitad ed in 1890, has fruited only in 1903 and 1904
vielding 11 pecks. Another one, planted in 1890 has fruited in 1903, 1904 and 1905 , and vielded
 Russet is hardy, of excellent quality, and we find a fairly good cropper. The trees are hardy,
Care, of course, is necessary in storing the russet ruits to prevent wilting. This can be overcome
y barrelling tightly and placing in a cellar not Again, it is well when considering apple-grow
arieties suitable and hardy for some of the camn Lees along the St. John River valley and Grand eing done by the New llrunswick Departmont of Agriculture, in planting out commercial illustralion orchle, will be productive of very great good I would, therefore, advise those who are starting out in orcharding to communicate with Mr. Thos. A. Peters, Deputy-Commissioner for Agricurure, and Secretary of the New Brunswick Fruit-growers Association, as esective sections. Ho is always
able for their respectan glad to give what information is availablo, and information on this point is rapidly being accumMlated by his department. Ane is, P. Q.
Macdonald College, St. Ane

## Cover Crops.

| " Cover Crops: |
| :--- |
| tility and Moisture |
| $\begin{array}{c}\text { Their Relation to the Fer } \\ \text { Content of orchard Soils," }\end{array}$ | was the title of an instructive paper read before the Fruit-growers" Association of Ontario, Nov perimental Farm, Ottawa. While much of the information is contained in his annual reports, a number of points brought out will bear emphasis. Leguminous cover crops sown in July, and plowed under the following spring, are he most

economical means of adding to the nitrogen and humus content of the soil. They not only appropriate nitrogen from the air through the bacteria on their roots, but they take up soluble
nitrates that would otherwise be lost by leaching, and they also make considerable quantities ing, and they also make considerabailable ly converting them into organic form, to be utilized by
the trees in future seasons.
Cover crops take up excess of plant food and moisture in the late summer and fall, and thus tend to an earlicr ma urity of the new wood of trees, greatly lessen ing the danger of winter also does much to pro Not the least advantage of the cover crop that it lends itself to many adaptations. If th he crop may be left for a year, being moved ${ }^{\text {a }}$,
couple of times during the summer. ${ }_{\text {If }}$ the elimate is a dry one, the crop may be plowed dow in April or cark May or farly June. In most cli mates cultivation is necessary in June or Julv, sut clean cultivation from year to year withouu Why should we enrich the orchard soil ? Some leterminations made to answer this question showed that an acre of apple orchard containing
40 trees in full bearing, removed from the soil in fruit, leaves and wood growth, 600 to 650 pounds of nitrogen, 135 to 150 pounds of phos-
phoric acid, and 700 to 730 pounds of potash Thile apples are not so exhaustive as some other hat they require rather generous fertilizing with so har plant food, and it is unwise to attempt
to narest onother rop besides rruit from the
land. In taking off two ton fo per acre there is more plant food removed by ,re hav than by the trees. On the other hand lose more fertility than they would under judi-
couss cropping. Untler all ordinary circumstances
thare oulht food to the soll, and this can be sismered most to $2 \frac{1}{2}$ tous of organic matter per arro. and $1 \frac{1}{\frac{1}{s}}$ Con some soils alfulfa doess very well as a cover in its favor is that halif ty nitromen found in hounds of nitrogen lur acre.. as compared with,
18 pounds by red clower, and it is a very prom-
 None cannot furnish any spring growth. conserves the clean cultivation in early symmer is neerous supply diring May and June when it crop uth July, Aucust and semtember-the cover the soll out to somm extent, checks growth on hew wood growth hefore winter
He beli.ved that the character of the autumn as to rainfall and tomperature had me matumn
with to to dry fall gave the trese a chance to mature, and
the exhanstion of the soil the exhanstion of the soil moisture by a cover
crop in late summer and fall had the same


ANUARY 11, 1906
THE FARMER'S ADVOCATE
Varieties of Apples for the Ottewa Strain Necessary to Improve Egg Yield. of liver or meat scraps bolled in watar. Add to water a pint of soaked beans and the samo
 Region.


## POULTRY

How to Improve the Laying Capabilities of a Flock.

## Owing to the results achieved in the variou

abroad, in the United States and in New South ical purposes are realizing that it is possible under certain conditions to obtain 200 or more eggs
from a single hen in the course of a year. The correspondent in question having learned that this and expresses, his willingness to purchase at a fair ,rice a number of birds of a remarkable laying type, even though the number of eggs they pro-
duce is smaller than the figures which have been suggested. It is remarkable how little practical nowledge many poultry-keepers possess. A man
who owned hens which had laid an average of 150 gggs per annum or more, as the case may be,
could not possibly gell them with any guarantee hat they would produce the same number in a
succecding year. As a matter of fact when a hen succeeding year. As a matter of act when a hen
lays a large number of eggs it is within her first vear-i. e., from the time she commences laying as
apullet to the expiration of twelve months-after a pullet to the expiration of twelve months-after again, as a rule, produces a much smaller number lisappointed, for a hen is not like a cow which increases her milk supply year by year until she has
attained her zenith, for the older she grows, the smailed heo her producing powers become. On the
other hand, it does follow that a hen having laid large number of eggs in her first year may to a arge extent be relied upon to produce pullets,
she is properly mated, which will do as good work as she herself has performed. As a matter of
fact, it is impossible in practice to buy remarkfact, it is imposible in practice to buy remark-
able layers which will continue to lay as before
abe pen, and thus secure in future what is actually Theded. large numbers of eggs, or who compete for prizes
with considerable success in the same direction have in most instances produced these birds in the mrocess of selection. If the owner of race horseg
tesires to obtain the highest speed in his foals he employs sires and dams which are themselves
the swiftest within his reach. If the dairy farmor desires to increase the quantity of butter or
hilk produced in his herd, he selects the deepest milkers or the best buttermaking cows for the purpose, mates them with a sire whose, and, in
that of a milking or butteraking family, and
consenuence. naturally expects to obtain heifers which in their turn will produce large quantities
of milk. And so it is with the poultry-keeper: if milk And so it is with the poultry-keeper
if he will obtain a large number of egry from the hens he owns he must discard every bad layer.
and hy the aid of a recording nest ascertain which
of the remainior hens in his possession lay the of the renaining hons in his possession lay the
largest number of cygs and these he must retain
later as his creeding sate them with a male eir ir which
aking care to mate
has been produced from an erg laid by the best has been produced from an eqg laid hy the best
laying hen within his knowledge. ancier has produced his most perfect specimens
 method of procedure. Like produces thike, and
whatever quality we wequire we must loo for in he parents, and if we are patient, and strive to reach a particularar standard, we are certain to
so in the long run. - Farmers' Gazette.
the dreed with a derinite object in view. Among shape and eggs, the last mentioned stands preeminent as a financial proposition. Notwith-
standing that eggs of the desired color and shape are the most coveted prize in poultrydom, yet
breeding to improve the flock in egg production is more difficult than for the improvement of any
other point. If we want well-shaped birds, we breed from well-shaped ones, and if we want eggs
we must breed from producers and the descendwe must breed from producers and the descend-
ants of such. When breeding for all the other qualities, the points considered are prominently before the breeder's eye, and all he has to do is to use good judgment in selecting his matings ; but not so in mating for heavy laying strain. No
man can select the best laying hens from merely looking them over. Frequently a favorite in appearance is seldom found at the nest if watched.
Non-production, to a great degree, accounts for or fine appearance. There are some claiming to
now the points which go to make a layer, yet
not they can only talk and speculate. The only way roduce of each hen, and in that way the profit-
atble ones will be found.
There are hens which lay as many as 200 eggs in a year, and a very few do better, while
some don't exceed two dozen. In fact, some speamens have been found never to lay an egg.
If one could secure a male from a $200-\mathrm{egg}$ hen tor better), he would be worth from five to ten
times more to put with a flock than one from the two-dozen-egg hen.
hen will only lay a few eggs during the most
favorable seasontin the spring, when any old crub strikes up for a few days. This, also, is he time for hatching, and inthe she will likely resting for six or elght months, she will likely way to inculation. A cockerel from a chance of
this kind will outdo the rest in the flock, and, i course, be kept for breeding purposes. Well,
what can be expected from his pullets?
The raits their ancestors possessed, and nothing betnor. Is it any wonder, then, that, where there is we are not making the progress we would wish for. This accounts for so many flocks degenerating so rapidly.
Trap-nests, records and pedigrees may not be practicable with busy persons, but these should
take advantage of every opportunity to secure
breeders or elggs from those who have used time, breeders or etggs from those who have used time,
patience and money, and have produced a firstlass strain
Wentworth

READER.

## Poultry Feeding.

ground grain and any available vegetables, as soon as they are awake and active in the morning. It is best
that the food be mixed and mashed together, with a little salt added, and fed warm. One should be careful o see that the feeding troughs are kept clean. red pepper mixed with the food will aid digestion red pepper mixed with the food will aid digestion. But
condiments should, of course, be used sparingly. A suitable variety of wholesome food is the best tonic. A
recular system in feeding, with frequent changes of diet. will keep fowls in a healthy condition-always provided their apartments are warm, well lighted and ventilated, In feeding, the object to be obtained should be conexcess of fattening food will injure the laying qualities. Give no more food at a time than the fowls will eat up clean. Better let them go a little hungry and make hem scratch-especially when feeding for eggs-than have larger mopeeds, such as the Partridge Cochin, being rather autet, are more apt to become too fat; while smaller orexcessive fat. With a little care and judicious obIn cold weather a greater amount of food is required
to sustain the vital force. Plenty of pure water must always be supplied to the flewls. of pure water must high percentage of water in eggs ( 64 to 65 per cent.)
laying hens particularly need an ample allowance. Galvanized iron drinking vessels, placed a little
above the feeding floor, so that they will not become above the feeding floor, so that they will not become
filled with litter, are a satisfactory watering arrangeFor the noon-day meal, allow the fowls what they
will pat quickly of a mixture of ground grain and sour grain, preferably corn, oats or barley consist of whole Poultry should have access to some form of vege-
table food at all times. Cabbages, are all relished by them, and all contribute to keep them in healthy condition. To give the birds exercise, we
feed these vegetables whole. For egg production, srme animar food is needed every day as meat scraps, beef
heads or livers, either raw or boiled. This can be cut heads or livers, either raw or boiled. This can be cut
un and fed to the hens, or hung in their feeding place.
of linseed meal. When cooked, thicken are a stifl dough, dlings or corn meail
Crumble and feed.
Crumble and feed.
Charcoal should be placed where the fowls can get at it, as perhaps no one thing is more conducive to their health. Also, lime or old plaster oyster-shells, for egg-shell material
As poultry masticate their food by a grinding process in the gizzard, the grit box must not be neglected. Lot ashes. Broken crockery or granite and gravel are also ashes.
used.
hen breeding fowls have free range, much less food need be given. Scatter the small grains through th nitter in the morning. colored flesh: aerley aesi, sund buckwheat. Corn-fed fowls have yellow-colored flesh of inferior quality.

Whitewashing, with the addition of a little carbolic
Whesh Whitewashing, wifting of air-slaked lime about the poul-lry-house occasionally,
down unhealthy odors,
The better the care, the more varied the food, th greater the profits.

Good Results from Our Ads.
Our thanks are due to Mrs. M. Howard, Sut-
On an enthusiastic readers of "The Farmer's Advocate." We shall certainly make these a feature of our columns. Re our advertisements, Mrs. Howard writes : "Am happy to "in the poultry columns of your valuable paper." Will others columns
who hav
of this.

## APIARY.

## Running a Wax Press.

There are some things about the operation of print, and a few words on the subject may help some readers of "' The Farmer's Advocate who are operating one of these machines for the first
time, or who have just been trying to, and have time, or who have just been trying to, and have. The writer had considerable trouble the first time or two, caused by the wax "freezing " before it
ran out of the press, and clogging up overything, ran out of the press, and clogging up overything,
so that it had to be cleaned up with boiling so that it had to be cleaned up with boiling
water before the work could be continued; and this is the trouble which causes many people to
condemn this method of rendering wax. Now, condemn this method of rendering wax. Now, the fault In the first place, it must be borne in mind that wax will stick to wood, or anything else or damp surface. In the. second place, get acquainted with the fact that wax will " freeze" when it strikes a cold object, or when a cold curso long as it is hot. These two facts not ireeze by nearly everyone who has anything to do with beeswax, and yet it is because conditions are not as they should be that the wax press gets bunged ap and makes trouble.
To have everything run fast and smoothly, it is necessary to have the room where the work is
being done very warm. A temperature of 85 or 90 degrees will do away with most of the trouble room for a couple of hours before commencing operations, so that every part of it may become thoroughly warmed up. Take out the follower and the slatted bottom, and stand everything up it, and it will warm up much more quickly. Just before putting in the first "go " of melted wax, have ready a kettle of boiling water, put the in place, and the burlap to hold the melted concha between them, plug up the spout of the pan, and then pour your boiling water slowly into the press. Don torget to give the corners their thing to get thoroughly hot and wet. Now let out the water, remove the follower, open up the hurlap. dip in the melted combs (you will soon the burlap over the wax, put in the follower, fold screw it down slowly. Be sure the screw presses fairly in the middle of the follower, or it will not you can turn it, and you think nearly as far as out, ease it up a little, and then turn the wax is far as it will go. Give it time to run out ; then to run out. You will be surprised how much out. Don't be afraid of breaking the be all but squeeze it down for all you are worth. If it bursts, gets a new one-stronger. When you
cannot persuade any more wax to come out, re lease the screw, take out war to come out, re
burlap, and dump the refuse (and burn your repeat the process until you are done. Have Your repeat the process until you are done. Have your
boiler for melting the combs on the stove boil-
ing and ing, and have a kettle of water boiling to replace What is dipped out with the boiling wax; and
have a pail of cold water handy in case your
boiler takes a notion have a pail of cold water handy in case your
boiler takes a notion to boil over; and have a
few dozen old newspapers spread around on the few dozen old newspapers spread around on the
floor; and have your press right up close to the floor; and have your press right up close to the
stove for convenience; and have a tap in the ves-
sel into which the wax and water from the sel into which the wax and water from the pre
flow, so that the water may be drawn off as
vessel fills vessel fills up. When you have finished, any little bits ai wax that may be in it. It is generally advisable to melt the wax again after it comes from the press to get it into a solid, clean cake before selling it or serding it away to
be made up into foundation. To prevent cracking when cooling, wrap an old piece of pet or something around and over the ves nam too rassibl
G

How about the date on your labiel? Has it been

## Bees and Footboll

o the Edicor "The Farmer's
Year's resolutions, and would suggest that list of Ne ollowing: I regret the way in which those hive bees have been neglected. They are of no profit, ain may be a seed-bed of foul brood and a menace to
neighbor's bees. I will either see that they neighbor's bees. I will either see that they are got
to a profitable, healthy condition, or else dispose hem." Let me also commend your attitude towa recreation at O. A. C. While it is agreeable and a ight for those having an indoor life, it should be po. ent who is in earnest as to reductiv minimum. MORLEY PETTIT.

## NEWS OF THE DAY

## President Phillips Arrested

As the last form of "The Farmer's Advocate " goes press, Mr. Joseph Phillps, Mresis Ad the Yor onto, charged with conspiracy to defraud the public by false statements published and returns to Gover
nent. The arrest was the result of the report jus made of the Government investigation. An outline the history of this concern appears on our editorial page.

Canadian.
earthquake, which lasted for ten seconds.
St. Paul's Industrial (Indian) School, near $W_{\text {inniper }}$
has been destroyed by
Premier Tweedie, of New Rrunswick, has announced at St . John that the Legislature will introduce pulsory Education Act in the neir future
al G. .. R. has placed orders, Chleny with Mout real and Toronto firms, for the building if 81 new
locomotives. The entire cost will exceed $\$ 1.000$

It is expected that the Macdonald Institute, in con nection with
will become
will become aff
the near future.
British and Foreign
$\qquad$
Hon. Edward Bla
A terrible earthquale has hen whonted fi,
Nicaragua, where the volcano San Dieno is in cruplion
A London. Fing, firm has been entrusted with
preparation of mourning docorations: and the erection
vey the body of the la
The Government of \ow
manufacturers to exhilh at at the New Ze.lard Inter national Exhibition, whi

Washington, has ellman, a newspaper correspondent Kecord Herad to ben, a nemissioned by he Chi ship, which is to be constructed and navigated trip will be made by wing. Continuous reports of th cables. The airship will, it is calculated, be complete
by the July or August.

## THE FARM BULLETIN.

Did you notice your labe
Mr. H. Noel Gibson, of Delaware, Ont. leaves this enterprise, known the management of a large farming Graham F. Blandy, in the celebrated Shenandoah ley, near Winchester, Virginia. The pure-bred stock cattle and Shropshire sheep. The best wishes Her fo


## Evidences of Progress


Their share (which, by the way, is a very small portion
of the total a,mount which they produce), the question
$\qquad$

$\qquad$ of flatery, I have no hesitation in saying from actuan
observation that, as a rule. I find the wealthiest most uri-to-date of our farmes's and stockmen are dili
gent readers of "o The Farmer's Advocate." The fre quent prisence of the coumty engineer is another The fre tion of the prosperity of the farmer, as it shows that ha is prepared to put his surplus profits into the most economic permanent improvement that he can make, nnd been record-breakers in this respect. From all parts o of engineers' ditches being put through, and in hewer in tances of mutual agreements by farmers without the experts aid. Rut the extent and nature of most cases
ussally. prevents this plan bring adopted. The intoo litule developed to. of most communities is as yet
 at surely adding to the permanent wealth of the going into liquere is still too much of his hard earnings Some Distinctive Expressions in Eastern Parlance.

Why, a pung is a sort of light sleigh, like that Fointing out of the window at a apussing cutter, tor
 a cutter is' built lighter than that. There's a difierence between the two." Is that word in the dictionary? said. "Cert, you Ontario people must be squirrels. (Etymol. uncertain), a kind of plaiu sleigh drawn one horse; originally a rude oblong box on runners n. [New Eng. and Canada], a low box sled for ond side, which serve for both shafts and runners." This then, was what a pung ought to be-a sort of rough where I was, though, the term seemed to be used with widely varying significance, but nearly always to desirg co get at the precise local significance, but every one the forty or fifty people I asked gave me a more another ween the cutter and pung lay it the dashloand
and runners, but nearly all had different idea from the dictionary. The word cute.
was not aiten used at anl, it was generally sleigh .".
$\qquad$
$\qquad$
$\qquad$ to Welster's opinion, is "tenm," Go into a livery
and ask for a team, and "Single or double?" will be the first question asked. Whether the rive is suppose
to make up the second party of the "single", teane An expression heard frequently in the great minitime marsh districts, where those immense areas rich, low-lying meadows have been built up from th
ocean flats by means of a system of dikes or cmlanh ments, is "English hay," which is the way they have of distinguishing the timothy and clover hay from that made of other grasses growing on the marsh.
Another expression that I have heard Another expression that I have heard remarked by myself, is the habit of greeting people in the evenin with "Good night." One man in particular, a native New Brunswicker, who had lived a good while in the
States, used to speak of this frequently ./ tates, used to speak of this frequently.
night," he always maintained, should be used parting word, but never as a salutation. ins not as are

## Canadian Jersey Cattle Club

## Club was held in Toronto, December 3oth. The cather- 

 in enthus:asm over the qumeers of the more than made und The President, Mr. R. J. Fleming, not being presmitat the opening, Mr. D) O. Bull, Vice-President. thooh the chair and reviewed the "ork of the past year, showing necessity in every high-class dairy, and as a famit cow, for milh. cream and hutter, is and as a family
outlook for the broedders cutlook for the breeders of this " mortyage lifter" is Messrs. D. Duncan and R. Reid were a commitiee appointer at the last annual meeting to visit the O. A. Jersey in the herd and there was only one typicai Jersey in the herd, and an effort will be made to have
an excellent reiresentation of Jersess at our a
turur
$\qquad$
$\qquad$
$\qquad$ present, Hod Howis. I.ixa-stock Commissioner, was

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


 office where I worked. 1 had occasion to read a prowot
$\qquad$
$\qquad$

Lumbering and Dairying in Quebec

one most suitable to meet the farmer's requirements at the present time. generating current for electric light by te accomplished gasoline engine. This might, however, be ally.
by steam, but certainly not more economically

If iteam, but certainis not were adopted and were charged t the same time that the engine was being run for chopping or other purposes, then there wa far as fuel
be a little in favor of the steam engine, as be a little in favor of the steam engine, as ar as
consumption is concerned, and especially so is sitraw consumption is concerned, and especialy so in in fuel
were burnt in place of coal, then the economy in realized would be in the same proportion as between the gasoline and steaim engine when threshing, but it when we have to produce the light direct from the gen-
erator that the use of the steam engine becomes prohibitive, for it would be necessary then to keep two
men employed, an engineer and fireman, during the men employed, an engineer and freman, during the
whole of the time that the lights were in use ; that is, whole of the time that the lights were in use; that is,
if straw were being burnt. If coal were used one man would suffice, but even then the wages of the engineer, assuming he was paid at the rate of only $\$ 1.50$ per
day. would amount to about 75 cents, and cossibly the day, would amount to about 75 cents, and possibly the same amount would be expended in coal, so that with-
out taking anything into account for interest, wear and tear and depreciation, the cost for supplying only 10 lights would amount to $\$ 1.50$, or 15 cents per light per day. An average cost of lighting by electricurs
50 cents per month per light, running 24 hours 50 cents per month per light, running 24 hours per day. can only be approximate, since circumstances will natur-
ally vary considerably, but they may saffice to enable ally vary considerably, but they may squfice to enable
the farmer to judge for himself as to whether or not the adoption of electricity for lighting the farmhoyse, etc., is feasible.
etc., if course smaller sizes than 25 light generators are made, but as is the case with all classes of machinery,
as time goes on more and more is demanded of it. It is therefore wise to commence with a machine with power sufficient to meet probable extra requirements, and especially so if the extra cost does not exceed, say,
The ideal motive force for generating electricity the, of course, that of water-power, but, unfortunately, there are not many farms in the West where this is availabie, but if it is, there can then be no doubt that the gen-
erating of electricity for farm purpose can be carried erating at aty
Windmills can be employed for generating purposes, and in connection with storage batteries might give satisfaction in some districts, but in connection with
the direct lighting from the generator, it would bie the direct lighting from the generator, somewhat awkward if a calm set in at dusk, which often happens, and in which case the dazzling light of our old friend, the oil lamp, would be necessary for rescue

## Go to Guelph.

The January short courses in stock and seed judylng looked 10 , be looked for as an annual event. Hundreds of men dnd
boys attend, including not a few experienced breeders, who find the judging pavition a congenial and invaluable place to exchange opinions with each other, to get hola of the latest ideas in stock-breeding and husbandry ${ }^{\text {oto }}$ faculties of perception and comparison by competitive scoring and judging of animals. The course this year commenced on January 8th, and continues till the 20th. On January 8th there also commenced a practical short
course in poultry, which is intended to run until February 3rd. The dairy course began January 2nd and concludes March 23rd, and in April there is to be a special course from 10th to 20th for milk producers and milk dealers. Fuller particulars, regarding any or and
of these, may be obtained by writing President $G$ : C .

## Live Stock and Grain <br> Meeting.

 Meeting.The annual meetings of the Manitoba Live-stock Associations may be held in Brandon in 1906. Secretary
George H. Greig was in consultation with Brandon civic authorities recently, as the holding of such meetings is cational work to The date of the holding of the show will be February 27th, 28 th and March 1st. The Manitoba Graingrowers will take advantage of the other gatherings, and convene the latter part of the week at the Wheat
City. The rough draft of the programme is as
Tullows Tuesday, a.m., annual meeting of the S . and S. association; p. m., regular class and stock judging; evening, convention and lectures. Wednesday, a.m., ahnual
meeting of Cattle-breeders' Association: p.m., stallion meeting of Cattle-breeders'
shows ; evening, convention. Thion; p.m., stallion
Thursday, a.m., Horsebreeders' Association ; p.m., grain fair and stock judg

Not in the Big Combination.
rumors, Hon. Melvin Jones, President of the Massey Harris Company, declared:, "We have not had, nor
ever will have, any connection with the lnternational Harvester Company, or any other implement company
in the United States or elsewhere in the United States or elsewhere. Our company is
absolutely independent, and runs its own affairs."


THE FARMER'S ADVOCATE

## THE CANADİAN BANK OF COMMERCE

Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,509,000$ HEAD OFFICE, TORONTO
B. E. WALKER, General Manager $\qquad$ ALEX. LAIRD, Asst. Gen'l Manager

BRANCHES THROUGHOUT CANADA, AND IN THE UNITED STATES AND ENGLAND

## BANKING BY MAIL

Business may be transacted by mail with any branch of the Bank. Accounts may be opened, and deposits made or withdrawn by mail. Every attention is paid to out-of-town accounts.


## British Cattle Market.

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difficulty in churnine ; cement blocks
or soly

THE FARMER'S ADVOCATE.
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## F. A. and H. M. L. S.

 In our last issue appeared an an-nouncement which, we trust, proved
of more than ordinary interest of more than ordinary interest to
our readers, viz., the forming of tion with our paper, the discussions
and debates thereof to be carried on by our readers, and to form a lead ing feature of our Life, Literature
and Education page. Now, having laken this thing in hand, at the readers, and, needless to say, with
much pleasure upon our own part, me are minded to make it an out and-out success, and this we can do
only with the whole-hearted co-operation of our readers. We want this wit polisher to those who take part, and a source of information and receation we want you our read supply the material, rub and be rubbed, good-naturedly, of course, and
so help us to keep things moving. The more mechanical part of the work, which must be done here in wish to render to our readers the best services in our power.
Have you read the conditions, as offered in our last issue? Possibly here it is, in a nutshell: If you wish
to become a member of this-which hust become the most extended Literary Society in Canada-and so ulus which, perhaps, you cannot
easily lay hold upon in the place Where you live, all you have to do
is to write us, requesting that your name be enrolled as a member. That alone will entitle you to write us
upon any topic that may be presented, or to offer any suggestion that
may occur to you for the improvement of the society.
The first topic-and, by the way, Waper on this topic may accomwany your application-is: "Which
do you consider the most important went in the year 1905, in (a), your Province; (b), in Canada; (c), in

Cireat Britain; (d), in the United Hates; (e), in the world? Give | fasons for your answers. Keep |
| :--- |
| four essay within a limit of 500 | ris, and written on one side ons prizes of books

paper n. not as an emolument, but as ight toker of our gratitude to
who may help in establishing

Writo us inmediately how you up the votes on each side, and doot ? And remember that all con tributions upon the first topic must The prizewinning essays will, of course, be published. Remembe contributors to the "F. A. and H

## Literary Society : Mock Par

 liament.Mr. J. R. V. asks for a few subsion in a Literary Society, also for some hints regarding the conducting of a Mock Parliament..... In Mr. J. R. V., with much pleasure, to our issue of Dec. 14, which contains an excellent list of subjects. Con-
cerning the Mock Parliament, the following hints may be of use
boose leaders novernmant first $t$ choose leaders, government and op(for convenience) for fictitious stand stituencies : a speaker, who coninto none of the debates before the house, but whose duties are to pre house, but whose duties are to pre
serve order, put motions, and decide on all questions of order; and a clerk, whose place it is to enter in his posed by the speaker. The clerk in Parliament, it may be noted in passing, takes no notice of members the Hansard reporter, who records all the proceedings of the House.
a fuil © Cabinet or Ministry is also chosen.
In Parliament, due notice must be In Parliament, due notice must be
given of any motion which is to be
brought forward. We quote from Bourinot: All motions shall be in writing and seconded, before being detated or put from the chair.
if No motion is regularly before the House untion it has been. hefore the House unt11 the chair, when it be-
posed from tuestion may
comes a question. A quen comes a question. A question may solved in the affirmative, or 'passed
in the negative,' as the House may decide. When a debate on a question is closed. A. the speaker proceeds to say the speaker says, "Is the
House ready for the question ?. House ready for the question ? The
sense of the House being unequivocally in favor of closing the debate, and
no member rising to speak, the speaker again reads the motion.
In the House of Commons, the speaker says,
vor of the motion, (or amendment)
will please to rise. (The clerk has before him a list of all the names printed alphabetically, and places a
mark against each name as it is
called. The assistant clerk calls out called. The assistant clerk calls out
the name of each member as he
stands up." The names of those opposed are
similarly taken. The clerk counts
up the votes on each side, and de-
clares them, and the speaker says: affirmative,". or "passed in the
negative," as the case may be. In negative," as the case may be. In
case of an amendment, it will be remembered that any member has the
right to move such without giving notice. Again, to quote from Bourinot: "When it is proposed to amend a motion, the yuestion is put
to the House in this way:The speak er will first state the original motion, (Mr. A moves, seconded by Mr.
13 that), etc. Then he will proceed to give the amendment: : 'To this,
Mr. C moves in amendment, seconded by Mr. D, that, etc.' The speaker will put the amendment directly in he first place to the House: ' Is it
the pleasure of the House to adopt the amendment? '," If the amend ment be negatived, a debate may en sue, and an amendment may be pro-
posed, " That the main motion, as amended, be further amended, etc." In this case, the speaker will submit the three motions in the reverse of the order in which they are made
and take the vote of the House on the last amendment first.
There are, however, innumerable
ules and regulations governing the procedure of Parliament, for which
we have no space here, and which are yet essential to the
carrying on of hence we would strongly those who purpose organizing such a debating society to procure a copy of
Bourinot's "Procedure of Public Meetings," or, better, of his " Parliaoportunity. Probably some of our readers have had experience in a well-conducted concisely their method of successfully conducting Mock Parliament.

## Partnerships.

 of life when his fancy turns rational tionally ", variety is not being considered just growr. This young man is well mind and body, and of reasonably good appearance. He has found
young lady who is in every way good mate for him, and he thinks of marriage. The thought of marriage brings with it the thought of home The young man finds that he has no money of his own. The sweetheart is in the same financial situation. parents nor the parents of the moun's ady are financially able to give the young people a start. Under such the young people conclude tonder if unmarried. And so, in many cases the question of to marry or not to marry is a question of finances.
In view of this, I submit the friends. $\begin{gathered}\text { suggestion to our farmer } \\ \text { It is worth thinking }\end{gathered}$ at least: capable of appreciating daughter is ing done, let the child be made partner in the financial welfare of
the home. At first the child's shar may be very small, but it should be large enough to engage his hearty
interest. It must be a genuine part
nership, not a side-line interest, into Which the child enters. What he
does must be of such a nature as he sees will affect the financial returns of the firm, such as an increase in the butter or egg yield, or additional
neatness and convenience of the heatness and convenience of the
farm or its furnishings. The judicious mother will readily suggest ways and means of taking her daughter into partnership. As
years pass, and as the capacity of the child grows, his share in the partnership will be increased, till, inally, the family will, in all matters alike. The result will be better work, because of deeper interest in the home; the boys and girls will,
in many instances, stay at home, and in many instances, stay at home, and
resources in the farm, undreamt of heretofore, will be developed. Further, the old ," people will not have to "move out", as the young people man wants to marry he will have his own earnings, and a deal of good experience to boot, wherewith to

## Flaw-seeing Eyes.

Lowell speaks of " flaw-seeing, eyes like needle points." They travel over a piece of cloth with preternaden defects : they theor in the same way Peor people lookout for flaws find People on the they are always sure that they in everything and it the succeed in detecting them at first sight in any instance, they go over the track. It, like a hound thrown off such a vision, for it makes the possessors unhappy and others unWe say that it is pitiful to hav such imperfection-seeing vision, but those who have it do not think so rhey congratulate themselves upon Others sinarter than other people. they-never $\quad$ So with their needr sight they go pricking into thinge and people, not realizing to how many good persons they are making find one scamp. But they so they over discovering him! Their chuck ing over their shrewdness, however. is no compensation for their loss. They cannot enjoy a superb painting
because they are endeavoring to tect some defect. After hearing de solo you will hear them speaking more of a slight break than of the so it is with everything else. And pleasure is spoiled by the foibles in all thing faults, flaws they behold in all things and in everybody-but eyes are blind.
It is exceedingly uncomfortable to heeing the same house with a flaw one may strive to However much and however well he right thing those penetrating eyes see some un forgivable shortcoming. Under such up altogether is very strong give many yield to it. Wherefore, and gainst ", flaw-seeing eyes, like needle


GLENGARRY SCHOOL DAYS.
How Thomas could have brought
this disgrace upon him, he could this disgrace upon him, he could no
imagine. If it had been William John, who, with all his good nature,
had a temper brittle enough had a temper brittle enough, ho
would not have been surprised. Anct then the minister's sermon, of which he had spoken in such open and enthusiastic approval, how it con demned him for his neglect of dut,
towards his family, and held up hi authority over his household to scorn. It was a terrible blow to
his pride. "It's the Lord's judgment upon me," he said to himself as he
tramped his way through the woods. "It is the curse of Eli, that is hang ing over me and mine." And with
many vows he resolved that, at all many vows he resolved that, at all
costs, he would do his duty in this crisis and bring thomas to a sense
of his sins. It was in this spirit that he met their return from the Gaelic servic "What is this I hear about you
Thomas?" he began, as Thomas call" ? and took his place at the tabl"What is this I hear about you to maintain a calm and judicial
tone. Thomas remained silent, partly be
cause he usually found speech difti cult, but chiefly because he dreaded his father's wrath.
". What is this that has become the talk of the countryside and the dis-
grace of my name? continued the
father in deepening " Not very graat disgrace, surely, father's angor.
'. Be you silent, sir !'" commanded
the old man. starn! our opmion when I require it youl need to learn sour placis,
Billy Jack made no reple, fearing
to make matters worse, thouch hi. to make matters worse. though he
found it hard not to. ris.nt this
taunt, which he hnow whill was flume
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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

$\qquad$
-me. mean. should have heard it
$\qquad$
$\qquad$
demnation, and yet, struggling
$\qquad$ through his slow-moving mind there At the taking of the looks that told his mother all the tale, finish could not define, there was justifica- night, the prayer, "Whath was spoken ing his story with the words, "Al tion for what he had done."
"It is not often that Thomas has grieved you," ventured the mother
timidly for, audible solemnity, was for the most part an exaltation of the majesty and righteousness of the government
$\qquad$of God, and a lamentation over the
wickedness and relpellion ofarickedness and rebellion of man- it, ard, I know you couldn't "Nolp
 the old man, asif if he had been wath was no good augury that it closed Thomas, sitting up suddenly in great ing for her words. It is not for tain the honor of that government are too fond of that work, and your jesty in all the re'ations of life. It ". Never you mind Thomas, it will children are reaping the fruits of it." was a woeful evening to them all, be well." and she leaned over him
Billy Jack looked up quichly as if and as soon as possilile the him. Thomas felt heusp hir to answer, but his mothrer turned hold went miserably to bed. house face wet with tears, and his stolid har face full upon hims and command- Before groing to her room the with steady "ons, giving, her- mother slipped up quietly to the loft mother, I don't care self, no sign of emotion except for a and fornd Thomas lying in his bunk now, he "Tied, his breath coming i
slight tightening of th.. hips and a dressed and awake. He was still great cobs. I don't care at all. touch of color in hur faces dressed and awake ${ }^{\text {D }}$ He was still
$\qquad$
$\qquad$ continued her hoshand. allowing his somehow he could not regret having his I howhow, laddice, I hnow." whispered unto the Thord I will put an end to stond up or Jommie and taken his his thother . Ne Never you fear, never It now, whatever And 1 will give At his iather 's hands next morning
you to remember, sir," torning to The pinishment he know, would Thomas, "to the end of your days, cruel emough, hut it was mot the Thomas found himself again with this table. Iet me not see your was dmoly strugglinge with the sense fast, his bis bout he held his mother then, if the Tord spares me. I shall of outrage, for ever since the mo- sobs deal with roulfore a moment as if he hist hatlonger to the master, he hat $\qquad$ had not quit. taken in his inthers
words, then, leaving his supper unaouched, he rose slowly and without ared how he collel not unasine hime
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ took, and commanded himself to $\qquad$
$\qquad$


The Four Sunbeams. Four little sunbeams came earthward one Shining, and dancing along their way,
Resolved olved that their course should be
blest. Let us try," they all whispered, "some kindness to do.
seeking our own pleasures all the seeking our own pleasures all
day through,


## Progressive Farmers.

## Photo sent by Mrs. M. Howard, Sutton West, Ont

## One sunbeam ran in a low cottage doo And played ". hide and seek " with

 child on the floor,Till baby laughed loud in his clee
mate so bright,
The little hands grasping in vain for the
That ever before him would flee
One crept to a couch where an invaiid lay
And brought him a dream of the sweet
summer day,
Its bird song and beauty and bloom,
Till pain was forgotten and weary unrest,
And in fancy he roamed through the
scenes he loved best,


Young Canucks.

## One

An

## An

For lifted her white face again. Their cheeks are like apples-as round ana Lot,
And finds something sweet in the dreari- $\begin{gathered}\text { And red as a " Northérn Spy." } \\ \text { They pity }\end{gathered}$, And est spote all labor and pain. And who play 'neath a southern sky.
nd one, where a little blind girl sat $\begin{aligned} & \text { alone, } \\ & \text { sharing the mirth of her plavfellows, }\end{aligned}$,
On hands that were folded and pale,
And kissed the poor eyes that had never
known sight.
hat never would gaze on the beauliful
Till angels had lifted the veil.
last, when the shadows of evening
And the sun, their great father, his chilTren was calling,
Four sunbeams sped into the west.
All said, "We have found All said, "We have found that in seek-
ing the pleasure ing the pleasure
of $\begin{gathered}\text { others we fll to the full our own } \\ \text { measure., }\end{gathered}$ Then softly they sank to their rest.

The Paper Dolly's Petition. Come hither, little maiden fair,
Don't look so sad and melancholy If you have any change to spare,
Pray buy me for your Paper Dolly

My name is Mary, Mary Hill
But call me May or Moll or Molly Or even Polly, if you will,-
But buy me for your Paper Dolly
Kitties will scratch and tea-sets break, And jackstraws, they are naught but
folly: But how much comfort you might take When When winter fings his snows about.
And nothing's green but pine or holly, And girls are kept from going out,
How nice to have a Paper Dolly! But when the summer skies are fair, And summer birds are blithe and jolly And summer flowers are everywhere,
o, don't forget poor Paper Dolly !
Your money is all gone, you say? But go ask grandma; she will pay Then I shall be your Paper Dolly.

## Young Canucks.

All our young Canucks greet eagerly
A splendid fall of snow.
Their warm coats and caps are donned
Then out of doors they go
'Tis little
efore obtaife, reading-glass and 'o your most valuable farm
Thry were all far ahove my ex
bith in quality and finish. ath in quality and finish.
send more subscribers. Dec. 25th. 1905 . WATSON.

## Winter in St. Petersburgh.

The peopie run so fast in the street they were to stand still, they would he
frozen. Little children cannot go our at
all in the midst of winter, but boys who all in the midst of winter, but boys who
are fast runners can. The people wrap
themselves up in fur, with only noses and themselves up in fur, with only noses and
eyes peeping out. Sometimes you will see a man's nose grow very white indeed.
He feels nothing, but some kind person passing by will call out, " Father, mind your nose ! " and then the man will take up some snow, and rub it.
There are large rooms in St. Petersburgh. where poor people may always go and warm themselves. The rich people keep themselves very warm in their
houses. They have double windows, and they put salt or sand between. In the sand, flowers are planted, and so little gardens bloom in the winter, between the shape of litule houses, trees and hills. dows would you put between your windows, sand or salt? There are two or other, to keep the cold from getting in and there is a large stove in the middle

## How the Professor Apolo-

 sized.turiny turing to a new class, some of whose
members he did not know wer members he did not know very well. A book in his left hand.
". Sir,", thunderad Blackie, "hold your "Sir," thunderad Blackie, "h hold your
book in your right hand !"-and as the book in your right hand!"-and as the
students would have spoken-" No words, sir ! Your right hand, I say !" word, The student held up his right arm, end-
ing piteously at the wrist. "Sir, I hae ing piteously at the wrist. "Sir, I hae
nae right hand,", he said.
a Before Blackie could open his lips there rose a storm of hisses, and by it his
voice was overborne. Then the pro voice was overborne. Then the pro-
fessor left his place and went down to the fessor left his place and went down to the
student he had unwittingly hurt, and put his arm around the lad's shoulders and drew him close, and the lad leaned
against his breast. against his breast.
"My boy," said Blackie-he spoke very softly, yet not so softly but that every word was heard in the hush that had fallen on the class-room-" my boy, you'll forgive me that I was over-rough ? He turned to the students, and with a look and tone that came straight from his heart, he said, "And let me say to am teaching a class of gentlemen" Scottish lads can cheer as well as hiss, nd that Blackie learned.
Do the work that's nearest;
Though it's dull at whiles.
Helping when we meet them
Helping when we meet them
Lame dogs over stiles; See in every hedgerow, Marks of angels feet, Underneath our feet.

## The One-tolent Man.

 He couldn't sing and he couldn't play,He couldn't speak and he couldn't pray He couldn't speak and he couldn't pray,
He'd try to read, but break right down, He'd try to read, but break right dow,
Then sadly grieve at smile or frown. While some with talents ten begun,
He started out with only one. With this," he said, "I'll do my best, His trembling hand and tearful eye Gave forth a word of sympathy :
When all alone with one distressed,
He whispered words that celmed that And little children learned to know, When grieved and troubled, where to go
He loved the birds, the flowers, the trees And, loving him, his friends loved these His homely features lost each trace There beamed a kind and tende That made surrounding features brieht When illiness came he smiled He said, " Good-by,"
He made of life a grand success.

I received the handiag saiely, and I am
well pleased with it well pleased witi it. It is a beauty.
Accept thanks. IAMES SHELLEY.
"Where There's a Will There's a Way."

Christ-who has set us the one perfect The soul of the sluggard desinath, and
hath nothing : But the soul of the diligent shall be made fat. -Prov. xiii.: 4. 4 . o woman, great is thy faith: be it unt, theo even as thou wilt. be And her daughter was made whole from that very hour.-St. Matt. xv.: 28 .
Never be idle, find something to do Never be idle, find something to do;
Water grows stagant when still,
Tools, if neglected, will rust-so win youn ;
Work, while you can, with a will, Wirk, whine you can, wat
And hotience and zest.
Aor the best. And hope for the best,
Whate'er the position you fill Men who were poor
Have pushed to the And toiled to the top of the hill
What they have done What they have done
You may do if you What they have won
You may win by and by

```
Man is a wondrous self-acting machine,
```

Made with unmatchable skill;
Sloth clogs and injures him, work keeps
Shoth clogs and injures him,
him clean,
And potent for
Man needs no oil
Other than toil,
Labor-oiled works
Action ne'er clogs
Action ne'er clogs
Cranks, pistons, or
Labor gives :trength, sloth makes weak.
Be this your plan
To persistently
To work when you try
And to rest when you die
If you should call on another farmer
and find him standing gossiping with a
chum over the fence, and then if you
noticed that his fences and barns were
tumbling to pieces and his fields were
tumbling to pieces and his fields were
overgrown with weds, you would prob-
ably make up your mind to two thinge.
The first, of course, would be that, as he
The first, of course, would be that, as he
set out to farm, he ". desired "-like the
set out to farm, he ". desired "-like the
eluggard-to make his farming pay. But
the second thing that you would know
the second thing that you would know
without being told would be that he did
without being told would be that he did
not ". will " to be a goed farmer. There
may be exceptions to the rule-"where
there's a will, there's a way "-but they
there's a will, there's a way "-but they
are scarce. The Syrophenician woman
obtained her " desire" because she
obtained her "desire" because she
strengthened it with the whole power of
strengthened it with the whole power of
her will.".
one record in the life of the Good Physi-
cian, when He apparently turned a deap
ear to unselfish, earnest, faithful a prayer.
Over and over again she pleaded, prayer. until-
like Jacob wrestling with his mysterious
Ke Jacob wrestling with his mysterious
opponent-the bessing she had set her
heart on was poured out richly on her
head. And not only to her is the
promise given:
aromise given, ". Bee it unto the is the
as thou wilt.". I suppose we all oven de-
sire " to be good, but do we all ". will ",
sire " to be good, but do we all all ". will",
it ? ". If any man willeth to do His
will, he shall know," says our Lord-I
am quoting St. John vii.: 17, R. V.-
and how many sit down conter
and how many sit doonn contenterly un-
der the burden of doutt and uncertainty,
der the burden of doult and uncertainty,
when the path to light is so clearly
jointed outat He does not say it is
enough to .. desire. ."

the '. will must to the the pursuitt of horoiness.
No one ever does that persistently for
yo one ever does that persistently for
years without having enough light to
walk by. If the prayers ane careless and
walk by. If the prayers ane careless and
hurried, Bible-reading almost entirely
Hurred, Bible-reading almost entirely
neglected, and no daily attempt made to
conquer sin and grow in holinest in
conquer sin and grow in holiness, it does
one little good to say. hopelessly.
one
wish I was as good as so-ind-so.:
wou
wish I was as good as so-and-so." You
would know it was folly to look at an-
other's farm or house, and say : "I wish
other's farm or house. and say: "I a wish
mine was as well-ordered as that !". un-
less you went to

1. 9 : and the law

who not only desires, "rlut
to be a good farmer will surely
to
if he should live lont
if he should live long
nie, mun or women who not only
but will " to become like
and more of His image. Failing over
and over again to obtain their heart's
and over ayain to obtain their heart's
desire, like the poor woman of Canann
they will follow Him woman of Canaan,
thead with Him
until they wi
until they win the rich reaward of His
commendation, "Well done
commendation, "Well done, good and
faithful servant......
the joy of or thy thou ind
the
the joy of thy Lord." About 300 years
ago a strange, mystical doctrine was
ago a strange, mystical doctrine was
preached, which has been called
CQ Quietism." The chief business of
Quietism." The chief business of the
Quietists was to attain a state or passive
rest or "" quiet," in which total inection
Qumetists was to attain a state or passive
rest or "quiet," in which total inaction
of will and intellect
rest or "quiet," in which total inactio
of will and intellect was supposed t
bring the soul into the best
bring the soul into the best condition fo
becoming one with God through the
becoming one with God through the
operation of the Holy Spirit. Perfect
operation of the Holy Spirit. Perfec
prayer was considered to be a state o
absolute quiet, with no thought or wish
absolute quiet, with no thought or wish
or hope. Any word of confession, peti-
tion, or even of praise, was considered
hindranee
tion, or even of praise, was considered a
hindrance. Probably most of us ordi-
nary people would
nindrance. Probably most of us ordi-
nary people would go to sleep if we tried
to pray in that
to pray in that mystical fashion, and
this is too practical an age for ". Quiet
this is too practical an age for "Quiet-
ism "-as it was taught in those days-
to gain much ground. But too many serm
to gain much ground. Isut too many sem
to think that goodness is like a self.
oo think that goodness is like a self
propagating weed. Like the "Quietists."
they
propagating weed. Like the "Quietists.'
they leave their souls in a state of inad.
tion, and then wonder, in a state of inac surprise,
that they are no better than they were
that they aren wo better, in great surprise,
year ago. Better! the wonder is if they
have not lost ground. Our life may ber

victory all along the line," but it certain-
ly will not be unless we fight; really make a
steady effort to conquer
steady effort to conquer our own beset-
ting sins; unless we sow seed of high
ling sins; unless we sow seed of high
ideals and holy throughts; and grow the
fruit of love, joy, peace, longs suffering,
forle
gentleness,
temperance.",
goodness, face, faith, meserering, mess,
These will not grow of
temperance." These will not meekness of
themselves, and they. will be a very poor
crop unless we live a life of a verayer-com-
munion with God.
munion with God. Prayer is no more al-
together "petition than communion
with an earthly friend than altogethunion
ing favors from him.
Mind, I am not raising the vexed
question of salvation by faith or worked
about hol talking about salvation, but
saved, just as he was; but he was hard-
iy what would be called a "holy man,"
or he would never have declared that the
terrible punishment of cruclifixion that the
just reward for his misdeed
Just reward for his misdeed. St. Paul
in his first letter to the Corinthians, ex-
plains that some will be saved, " yet so
as by fire." If their work cannot stand
the fre for "/ the
as by fire." If their work cannot stand
the fire-for ". the fire shall try every
man's work of what sort it is is, -then
the work shall be burned, but the worke.
the work shall be burned, but the worke",
if he have built on the foundation of
Jesus Christ
Jesus Clarist, shall on the foundation of
the salvation. Is that all
the salvation you care about? Is that all
be rescued from to punishment
be rescued from punishment!? If that to is
all you want. then it is waste of time
for you to ever look at the "" Quiet
Hour," Ior I have no message for you. I
cannot underon
cannot underetand a sessage for you. I that has no
aspirations after holiness. Surely
aspirations after holiness. Surely any
man who is made in the image of Gord
man morn
man who is made in the image of God
must, sometimes at least, try to be like
$\mathbf{H i n a}$. But let
Hina. But let us never rest satistied
with high ideals. Hear St. Paul's warn-
with high ideals. Hear St. Paul's war
ing to some who made their boast
God, approved the things that are excel
lent, were not only
lent, were not only instructed in the law
but quite
int
ind
but quite willing to be instructors of the
ignorant.
He declares that because the
ignorant. He declares that because they
were untrue to their own ideals, and
broke the
were untrue to their own ideals, and
broke the commandments of God, they
brought dishonor on His
brought dishonor on His great, Name,
which, as he says,
which, as he says, ". is blasphemed among
the Gentiles through you." One who has
thi centiles through you." One who has
high ideals and rests satisfied with them
without putting them into practice, can
do more harm to the cause of Christ
do more harm to the cause of Christ
than an open enemy.
Marden says: Whemy, Whover evades the
burden. misses the
Marden says: "Whoever evades the
burden. misses the blessing. True living
is never easy,
is never easy; there nevever comes a day day
whem noming
when a noble life can be lived without
effort." The soul is like the body, it
needs
needs food, pure air and exercise to keep
it healthy. The food may be obtnine
it healthy. pure air and exercise to keep
in the Iood may be obtaned
in the Lord's Supper, study of obtained
ninhle
ind other good and helpful broks, hearing
of sermons.


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to bake is the "Five Roses" way. "Five
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| :---: | :---: |
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|  |  |
| surely |  |
|  |  |
| uld be as easy to doubt |  |
|  |  |
| Heavenly Father. Each victory won |  |
| es another more possible, just as a asked me to say a few words to cheere child learns to add one and one those who, through force of circum- |  |
|  |  |
| ther, then two and one and mounts stances are cut off from the outward |  |
|  |  |
| our help and comfort and to bind uscloser to toHimself andto each other. |  |
|  |  |
| perfected in a hurry, any more tran Perhaps the following verses will meetbody grows in a year from childhood the need: |  |
|  |  |
| nhood. But no smallest |  |
| cver wasted: the litlle temptation tocrossly resisted, the little kindnes |  |
| sly resisted, the little kindness to e of the least" of Christ's brethran | Lord ! Lord ! I plead for all, who |
| one of the least "of Christ's brethren to me- |  |
|  |  |
|  |  |
| ing time of prayer and Bible-reading on a Nor have we share in that all-wondrousbusy day, these, and hundreds of other |  |
|  |  |
| things which may be small taken sepa- <br> feast. <br> rately, are not only faithfully recorded Yet, leave us not bereft, dear Lord, I |  |
| pray: thin the corners where Thy 1 |  |
|  |  |
|  |  |
| that thought make these little battles Raise Thou an altar that our souls may |  |
|  |  |
| notice them, but a beautiful soul is the So shall we feel that we are not alone.grandest, noblest thing on earth; and it |  |
|  |  |
| possession open to anyone who |  |
| ils," with all his heart and mind and gth, to do the will of God. What- |  |
| strength, to do the will of God. What- Priest ! |  |
| never give up the fight. As Jeremy Oh, wopdrous mercy ! and, oh, wonTaylor says: " Nothing that is excellent drous feast ! |  |
|  |  |
| ou wouldst work for God, it must prayer. |  |
| If thou wouldst win the garland for thy We feast on Thee in spirit, hearing |  |
|  |  |
| Redeem the time |  |
|  |  |
|  |  |
| for |  |
| Fold not thy hands! But, still, we long to greet Thee in Thy |  |
| crown And kneel with other |  |
|  |  |

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5 Eubl
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1. A. \& E. J. WIGLE, Kingsville, Ont IRPMance phone in residence.
A. J. C. C. Jersey Cattle He property of GEO. LATSCH, Freeport, Ont The property of GEO. LATSCH, Freeport, Ont
 TUESDAY, JAN. 30, 1906, commencing at 1 p.m.
JOSEPH MICKUS, Auctioneer. JOSEPH MICKUS, Auctioneer. o GEO. LATSCH, Valley Home Stock Famm
SHOR sale: seven young




## Stam num tree verex.

 sem mane some land helonging to an old farmewho distiked seving his wheat trample
down. The men produced a down. The men produced a paper plity
which they said they had leave tren th. poles where they pleased. The ol after the men, and the old farmer, seain
them ruminn from the field, shouted a
the tup oi his voice .l show


Who wrote her to send him the secret of wrote lack that he must consider
cost,' she said. It is a cost that
of his fasionable patients would make, 1 rise at 7 or 7.30 , ride or walk in
country roads, live close to my book Tew people, and retire at at oo. What
fashionable woman could endure my life I remember thinking about it one winter morning, when 1 was walking alone, the
crisp. crackling snow under my feet, the fairy outline of a gossamer frost revealing every twig of bush and tree, and I was so invigorated and happy I could but if I had been a woman of fashion Couldn't have endured the silence, the empty distance, the quiet; why, a woman guite sure I should in hers.' and am quite sure I should in hers.' It is in
such solitude and close communion with nature, in the home of her childhood-an
oldt-fashioned, rambling country old-fashioned, rambling country home in
Albermatle County, Virginia-that much of Ametic Rives' literary work is done.'

Recipes.
New England Cake. -1 cup butter
2 cups brown sucar (beaten), aup molasses sugar, 3 egg raisins. $\frac{1}{2}$ lb. currants, 2 tablespon fruit-preserve juice, 4 cups "Five Roses tartar. Gems.- 1 erg, small piece of butter,
cups Graham flour, 1 cup ${ }^{\text {and }}$ Five Roses

With if Flowerts
 proper treatment for a Maidenhair fern. shade, warm or cool place, and if they require much water? I think a great many of the hints given in 'The Farmpot large enough to afford plenty in a foom, and see to it that the drainage is of the pot with fully an inch of broken crockery or such drainage material next 0 it. Give the fern a rich soil, consist ing of good loam and leaf mould in position, and morderately morist. Thated
temperature should be from 60 to 65

St. Martin's Summer

QUESTIONS AND ANSWERS. 1st.-Questions asked by bona- -fide subscribers
to the Farmers. A Avocate" are answered in
to denartment free shd. Questions should be clearly stated and
paninly witten, on one side of th paper only
and must be accompanied oy the full nan plainly written, on one side of the paper only,
and must be acomparice by the ful name
and address of the writer
srd. - In veterinary questions, the symptoms
 ot her wise satisfactory replies cannot be given.
uth- When a roply bpa nail ui required to
utgent veterinary or legal enquiries, 81 must
be enclosed.

> Miscellaneous.
ownership of slabs.
Farmer employed millman to saw lum-
beterend did not sell the timber to him.
There was nothing said about slabs in the bargain.
the slabs belong to? A SUBSCRIBER.
Ont.
Ans.-In the absence of a well-eatablished custom to the co stitchmort Give name and habits of the enclosed
plant. It grew profusely in a hay field
A SUBSCRIBER. this year. A SUBSCRIBER.
Ans.一This is one of the European sitch worts. In the absence acso and
leaves, having only the seed capsules and
stems to judge from, we are not surg
which one, but think it most probably Which one, but think it most probably
thie plant called by botanists Stillaria graminea. The weed just named is a
perennial, with small white star-like blosperennal, with small white star-like blos-
soms, slender, angular, spreading flower
stems. in short, stems : in short, it looks like a
yling, narrow-leaved chickweed. not ikely to prove troublesome.
a colt killed. A. and B are farmers, and live side by
side. A owns the back half of fence, and
$B$ the front. B's stock pastured beside
clipping wings of market poultry CLIPPING WINGS OF Market poultry.
Would it he practical to clip the wings
of pullets and cockerels destined for thi
market, to prevent them getting over the poultry enclosure?
Ans.-Clipping the wings of P. L.
poultry is a cheap and ppactical way of
raising the poultry-yard fence. We have cream hard to churn. We have spent hametimes hard to churn? charning some
cream. Cows are fed corn ensilage and straw (mixed) twice a day, and hay once.
They are milking well. Is there anything
$\qquad$
fbeding mare to brebd in prbruary I have a mare which I wish to breed
during the first part of February. How
should I treat her to make her show in hould I treat her to make her show it
heat? L. . . .
Ans.- iradually increase the feed, ing a fairly liberal ration of oats and
han, also mixed clover hay, darnpened,
if necossary, to lay the dust, and a few
corrotion carrots or turnips to keep the bowels blanketed in a comfortable warm stable,
and give moderate regular pexercise and give moderate regular exercise. In
a word, try to simulate June conditions preparing sod por alpalfa. I plowed a ten-acre field this fall that
had teen in sod 30 years, and intend
planting half of it with haans and planting half of it with beans and half
with corn, und the next spring seed to alfalfa. Would it be better to leave
sord down next fall and disk the next
spring, or to fall plow it? Land rolling and drains goord.
Ans.-Many excellent
farmers
R. H.
would $\underset{\text { Answer - Many excellent }}{\text { without }}$ farmers ${ }_{\text {hesitation surface-work }}^{\text {would }}$ only in spring, but our own preference
would be to have it also plowed in fall.
The extre The extra stirring would, we think, give
more favorabie conditions for the alfalfa
ration for stebrs. came to see abount it; and some time
aiter A met B at the fair and asked him
"1that wast hat was he satiefied to do about it, nere ive saw ps mares in the field, and
I ardl his hired man put them out, and they jumped over B's share of the fence.
There was one person who saw the mares fiyht. Can A make B pay for colt under
the circumstances, as B refuses to settle Ans.-We think that $A$ is in a position
ton legally recover damages from $B$ for the drainage for ing ichovee - propagat
$\qquad$ ping. How should they be mixed to get vis sule to buy bran, as I have consider-
able lilue grass hay to feed? How muth Ans.-You colld scarcely get w. C. Ans.- - ou cowd scarcely get a better
grain ration for fatteming cattle than a
mixture of equal weights of oats, barley
teinant's improvements - in litiga

## GOSSIP.

## Messrs. S. J. Pearson, Son Meadowvale, Ont., breeders horns and Berkshires

offering some Berkshires, write: We are
horn bulls as we ever bred, being the low-down, thick, even-fleshed sort, with
good coat of soft hair-the right kind to head a herd. We also have some of our
best young Berkshire are due to farrow in February March and $\Lambda$ pril, bred to the first-prize boar at Toronto and London Exhibitions in 1904 from prize stock, and all froms, bre prolific strain. As the Berkshires are growing very popular, this is a good
chance to secure the right kind." Meadow-
vale is Owen Sound branch of the C P R... and the farm is only one mile from the sta-
tion. Call and see, or write Messrs.

## H. B. WERSTER'S SHORTHORN SALE.

 The dispersion sale of Scotch andScotch-topped Shorthorns, to be held on

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| Sols | ITrobuatron wwrrb of tiad |
|  | Sears od. Brow hir and ofeer |
| ateme | - ${ }^{\text {a }}$ |
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| chance to secure the right kind." Meadow- vale is a station on the Streetsville and | .th |
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| H. I3. WERSTER'S SHORTHORN SALE. The dispersion sale of Scotch and Scotch-topped Shorthorns, to be held on |  |
|  | QUESTIONS AND ANSWERS. Miscellaneous. |
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Cut of Mr．David Zarbrigg＇s house at Tavistock．Which
roofed and sided with our Galvantzed Goods， which will not rust，and need no repairing．


Cut of Mr．Fred．Weicker＇s barn at Haysville．Ont．，whic
is covered with our Gaivanized cavered with our Gaivanized Roofing．
farmers who hames of hundreds of other
fare ne our roofing to

WWANT the names of every farmer who intends to build or repair any of his buildings．If you will write and state your intentions，we will send you cuts and prices of Roofings，Sid－ ings，Ceilings，or any other goods you can use to advantage．We will also send you cuts of many barns and houses，and plans showing their arrangement

We can help you to build a barn with fire and lightning proof roof，at same cost as wood shingles．Our roofing requires no paint，and and we will mail you some interesting cata－ logues，etc．

## （h） <br> Our literature fully describes construction and operation．

## The Beath Litter Carrier

Patented Feb．9，1904，and July 18， 1905.
Awanded Diplomas at Canadian National Erhibition，Tononto， 1905；Central Fair，Lindsay， 1904

We claim that the Beath Carrier
the only perfect machine on the market， and solicit inspection and comparison

No farmer will try to get along without＇a Beath Litter Carrier，when he under stands their perfect and durable construction，the ease of installation and operation，and the great saving in work which they affect．

This is the season to install them，and no progressive farmer will try to get along without one．

Send us a plan of your stables，and we will mail you copies of letters from users and make you an interesting proposition．Where we have no agents，we are quotin special prices to introduce．We guarantee complete satisfaction．Write us at once

The Metal Shingle \＆Siding Co．， PRESTON，ONTARIO．

## JUST A FEW HOURS

## spent in calling on friends and the following

 VALUABLE PREMIUMS are yours ：
## Gent＇s Watches．

Lady＇s Watches．
No．3．－Sterling silver，open face，with genuine American jewelled movement；engraved plain or scribers．Retail price，$\$ 8.50$ ．
No．4．－Gold－filled case，guaranteed for 20 years， with genuine American jewelled movement；ver finely timed and stem wind．Eleven New Sub
scribers．Retail price，$\$ 11.00$ ．

## Lady＇s Hand－bag

Size， $4 \frac{1}{2} \times 7 \frac{1}{2}$ inches．Just what every lady wants．A magnificent leather hand－bag，leather－lined，leather handle，nickel－plated clasp．For Two New Sub－ scribers．Retail price，$\$ 1.50$ ．

Lady＇s Bracelet．
Handsorse Curb－linked Bracelet－Sterling Silver． For Two New Subscribers．

Your choice of any two of the fol－ lowing for ONE NEW SUBSCRIBER

A Three－inch Reading Glass． Powerful lens，nickel－mounted Useful Glass：

The Brass Band Harmonica Finest instrument in the world，extra full tone．
Fqual to a silver cornet．Every boy and girl should

The Microscope
Tripod Microscope，with strong magnifying lens，use－
ful for examining weed and ther small objects．Is a means of great entertain－ ment and instruction in the home and out of doors．
Will be found invaluaole in carrying on Nature Study how becoming a specialty in rural schools． Mariner＇s Compass． （Two inches in diameter），Nickel Plated；Ring At
tachment for convenient carrying．A useful article，

We must have honest workers．Changing the name from one member of the household to another，or deception of any kind，will not be allowed．If discovered，the premium will be withheld．
The William Weld Company，Ltd．，London，Canada．

JANUARY 11, 1906
QUESTHONS AND ANSWERS
Chronic bronchitis in dog Dog has been eick for some time. H is dunt; will nol oat, and coughs most all the time
Ans.-He has chronic bronchitis, which is win hand the warn breast and chest well. Apply mustard breast and chest well. Apply mustard Leave it on for an hour, and repeat daily for three times. Keep comfortable; drafts, etc., and give him 4 grain quinine three times daily Give him anything he will eat.
WORMs.

Mare throws her head up, and turns up her lips as if in pain, and I have notice
a white substance around the rectum. Ans.-This is probably only a habit. and is possibly caused by intestinal iron, sulphate of copper, tartar emetic and calomel. Mix, and make into 12
powdere. Give a powder every powdere. Give a powder every night
and morning. Give bran only for 12 and morning. Give bran only for 12
hours after she takes the last powder, then give a purgative of 8 drams aloes
and 2 drams ginger, and feed bran only and 2 drams ginger, and feed bran only
for 24 hours longer. Do not work after giving the ball, untili her bowels regain UtBrine irritation. The placenta had to be removed by
hand from our cow. She discharges a is getting thin. Is the trouble infec tious? Is the milk healthy? A. G. Ans.-There is an irritable condition of
the Hining of the uterus. Flush the the Hining of the uterus. Flush th the nozzle of the injection pump will enter easily, with 2 gallons of a threo-per cent. solution of Zenoleum heated to 100
legrees, Fahr. Give, internally, 80 drops degrees, Fahr. Give, internally, 30 drops
carbolio acid in a pint of cold water as a drench three times daily, unth the discharge ceases. I think it would be wise oo call your vetertaarian in, as an in
jectiom pump is necessary, and it requires
ome alcill to ome alcill to use it properly. It is no
infectious, and the milk is healthful. unterifty mare

1. Mare maised a foal last summer.
Her caat is dry and bard, and urine Her caai is dry and hard, and urine
scanty and high-colored.
She is in foal argain. Killed a hen; wife opened her and found several soft-shelled eggs of differ-
ent sizes in her. Was her flesh fit to Ans.-1. Give her a diuretic compound esin every night in soft food for three osees. Feed on good hay, chopped oats
nd bran, with a pint of lingeed meal each day, equally divided in the three
meals. Give one dram each sulphate of
iron. Wice daily. If she will not eat this in
er feed, mix with a pint of cold water and drench. Give regular exercise.
$\qquad$
SPAVIN-ENLARGED LEGS
Oriving mare has blood spavin.
$\qquad$
$\qquad$

## - I prosume you mean a bog spavin.

## the io lamee, or you want to reduce it,

her rest and blister. Take 2 drams
biniodide of mercury and canthar-
hair off the parts, tie head so that
third day wash off and apply sweet
Let head down now, turn into
stail. and oi
ane orm blister again, and
Faum rab and Dandage the leg, and
1 dram iodide of potash internally

THE FARMER'S ADVOCATE


Galvanized Watering Bowls


Metal Shingle \& Sidind Con, Limited, Preston, Ont

MEW IWPORTATION OF: Clydestale Stallions
dust arrived trom sele
A grand lot of stallions and masres, combining size with quality, and the beat of breeding.
WRITE US FOR PRIGES AND PARTICULARS.
SMITH \& RICHARDSON, columbus, Ont.

## Hackneys and Clydestalaes <br> From suoh noted champions as Baron's Pride,  Fos fuller desoription and prices writa: o T. H. Hassatl, Mullbrook, Oit:

HACKNEY AND SHIRE STAILIONS FOR SALE Shimes from 1800 to 2200 ibs.



 R. KEEVIL, Gmampton, ontarfo.


INNIS \& PROUSE
New importation of CLYDEsDALE STALLLONs represent
such noted blood as : Baron's Pride, Hiawathe
 Fauntleroy and Lord stewart. They were selected with great care ; combine size and quality. They are an Al low.
${ }^{21}$ head to choose from.
INNIS \& PROUSE,
Woodstook and Indereoll.
TO SECURE THE BEST RESULTS Plact an ind. in the Fartimers aldectifh

## GRAHAM BROTHERS <br> "CAIRNBROGIE,"

Imponters of i: HACKNEYS and CLYDESDALES



- "Psychine" has restored chousands of people to buoyant ion had been regarded as hopeless. It is at once a tonic and flesh builder, containing bremarkable properties as a blood purifier and germicide. It will strengthen and heal the weak lungs, force out the phlegm, and drive away the cough, no matter of how long
standing. "PSYCHINE" tones up the whole system and drives out disease, heals the decayed tissue and restores lost energy. Its use most subtle disease consumption.

GREATEST OF ALL TONIOS

$\qquad$


## Clydesdale Stallions and Fillies.

Avo Hackmey Stallions for sale.
At reasonable prices. Come and see
obem.or write to ADAM DAWSON. Cannington, Ont. sandy bay stock farm, rosseau. haCKNEY MARES,
both privewinners at Toronto, and good
aatoors. One of them hroken to harness
Will Apply for particula


GLAYFELA STOCX FARY CIylesiales, Shorthorns and Cotswolds
 d. C. ROSS, Jarvis, Ont Cljdesiales, Shorthome and Cotswold
 earting bull, by imp. sire; also some yearlin Advertise in the Advactio P

## QUESTIONS AND ANSWERS

 Miscellaneous.OBIENTT FOR PIGPBN WALLS AND FLOOR 1. How do you mix concrete for walls,
and would you mix it the same for
hoors? Do you use sand? and would you mix it the same for
foors? Do you use sand? IS so how
much?
2. Would it be any cheaper by mixing
in stone in wall? What 2. Would it be any cheaper by mixing
in stone in wall ? What consistency
should it be ?
3. How thick should the wall of a pigpen be in a building $15 \times 60$ and what
depth for the floor 9 INQUIRER. Ans. - 1. Concrete for walls is mixed in
abount the seme proportion as for the about the same proportion as for the
lower layer of floors, viz., one part Port-
land cement to ten of gravel; or one part land cement to ten of gravel; or one part
rock cement, to - six of gravel. With
gravel graded in size from a grain ol gravel graded in size from a grain of
wheat up to a hens's egg, no sand is ne-
cessary; with cessary; with very coarse gravel an ad-
mixture of clean coarse sand would be advisable, using bay $1-4$ or $1-8$ sand and 2. With fied stone available, is they
are on most farms' it is much cheaper, and makes quite as good a wall to work in all
the stone possihhe, taking pains, however.
to keep them a couple inches from ither to kep them a couple inches from ither
outside or inside of ti.e wall, a..il to have
each stone surrounded with mixed con-
crete crete. The thickness would depend upon the
3.
height: We presume it is proposed to
build the wall all the way up with ce build the wall all the way up with ce
ment, making it eight feet high or more.
In this case we would suggest making it In this case, we would suggest making it
10 inchees thick at the bottom, tapering to
6 or 7 inches at the top. The floor 6 or 7 inches at the top. The floor
should be three inches thick.
FEBDING VALUE OF RYE AND BUCK pgeding valut ora git and buck

1. How is rye grain as a milk-producer? Would it be better for me to sell the
2. We mat buy other grains? If so, what
rye and but rye and buy other grains? If so, what
kinds?
B. How is buckwheat grain as a milk4. How is brickwheat straw for feed ?
Cattle seem to be fond of it. C. M.
Ans.-1. So far as chemical analysis is Ans.-1. So far as chemicał analysis is
concerned, rye does not differ materially concerned, rye does not differ materially
from wheat. Prof. W. A. Henry states,
however, in." Feeds and Feeding," that,
it is ithounht. it is 'hought, rye imparts a characteris-
tic. flavor to milk, and may cuase bitter
butter, though he adds the butter, though he adds that the limited
use of rye will probably prove satisfac use of rye will probably prove satisfac-
tory. In the writer's somewhat limited
experience with rye experience with rye, he never found it ob-
jectionable. 2. Rather than feed more than two or
three pounds per head a day we would
exchange some of the rye for wheat bran exchange some of the rye for wheat bran
and shorts, oil meal, pea meal, and,
and to stock, but it has is not often fed Value, its nutrients running somewhat The black, woody hulls of the grain have
little feeding value, but the middlings, or
the portion immediacely inside the hull the portion immediautely inside the hull,
is rich in protein and fat, and has a
hish high feeding value. The miller wishing
to sell as much of the hulls as possible mixes them with the middlings; designat-
ing the compound buckwheat bran. The intelligent feeder will buy little of the
hulls and much of the floury portion.
Buckwheat bran and middling hore Buckwheat bran and middlings have the
reputation, deservedly, in our opinion, of


## OLD HORSE IN POUND

 owner can be found, and it could the
proved that he turned the animal out to
die, could he be prosecuted for cruelty to
daimals?
keeper proceed to prosecute, or wh
should bo the prosecutor ?
AN AN OLD AND CONSTANT ADMIRER.
Ont.


BURNS \& SHEPPARD, Props


Cor, SImooe and Nelson ste, Tomant Auction Sales of
Horees, Carrlasion, Butilios, Harnoes.
oto., every Tuesday and Friday, at 11 o'olock. Special Sales of Thoroughbred Stook conáucted. Consignments solicited. Corrospondence
will receive prompt attention. This is the best market in Canada for either
boyer or seller. Nearly two hundred horsee sold Shire, Percheron, Clyde, Belgian Standard-bred and Coach Horses, IISO SPANISM-BRED JACKE, for sale

W. R. GRAMAM, Bot 29, Rent NEW IMPORTATION
 I have landed one of the beet
importations of CLYDESDALES, SHIRES Hackney ${ }^{\text {and }}$ Stallions males and Allies ever landed
in emerican They Are got by
such sires es Beron's Pride.

 importers are asking for theirss. For full par-
ticulars write
DUGALD ROSS, Stmeeteville, Ontarlo.
SHOE BOILS Artama W\% ABSORDINE yun teore mine mo




 WUESTON P.O.i. C.P.R. and G.T.R. 10 miles
west Toronto. Telephone at house and farmile WATCH FOR MR. THOS. MERCER'S
 Iand. Address:
THOS. MERCER, Markdale, Ont


ANUARY 11, 1906
THE FARMER'S ADVOCATE.
rs! Use CBAULTB ustic Isam Humisix Nive wix Hixame Toronto, Ons

## sitory

## rD, Prope.

Trumans' Champion Stud, Bushnell, illinois.
shire, Perbheron, belgian and hackney stallons

an
4-yoai-olde
3-yoar
2-your-old


Also Champlon and Resonve Champion Hackney Stallions


 any causo, if desirird.
Sertember and Nilutroved cathlotogue of our horres. Importations arrived, July,
TRUMANS' PIONEER STUD FARM LONDON . . ONTARIO


25 Percherons, also French Coachers, Hackney and Clyde Stallions



 buying ilsewhere. Inspoct our stoek and get our prices. Terms made to suit purchasers.


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

Largest importers in America of Oldenburg
German Coach, Percheron and Belbian




J. Crouch \& Son, Lalroyette, Ind. rite us at London, Ontario

## 125 Percheron, Shire and Hackney Stallions and Mares.

At the Fondro pair at 5 Lt LLuis I won More premier championship award. than any  prizes, and in 1905 , on 19 head, I won 34 prizes, of which 19 were firsts, including gold medals and 3 championships. I have the Goobs, and will save you $\$ 500$ to $\$ 1,000$<br>OFFICE:<br>109.1 South Wash- LLW ington Street. CRAWFORDVILLE. INDIANA. West Main Street? -n Veonen, Big Four and Vandalia Railroads, and Interarban from Indianapolis.<br><br>J. B. HOGATE'S<br>Shires, Clydes, Percherons, Hackneys and Spanish Jacks.  and flllies, Clyde stallionsand fillies, Hackney and Peroheron stallions and Spanish Jacks, many of them prizewinners in England, Scotland and France. This is a giltedged lot and the best we ever imported, combining size and quality.<br>, be woston, ON<br>J. B. HOGATE, Proprletor

cossip.
only an acouaintance A Scot, who served an Englishman last trip, had a weakness for claiming retationship with all the induential families in that part of Scotland.
One day the Englishm.
One day the Englishman met him on
the road driving a pig, and saw a little
fun. Well, Donald," safd he, " is that one your grand relations ? "O Oh, no," said Donald, quietly. "T AMERICAN ABERDEEN-ANGUS
CIATION OFFICERS.
At the regular annual meeting of the
American Aberceen-Angus Breeders' Assoclation, and at the meeting of the Board
of Directors, held in Chicago, the evening of December 20th, the following named officers were chosen: President. J. S. S.
Goodwin, of Hlinois: Vice-President, C. Goodwin, of Illinois; Vice-President, C.
J. Martin, of Iowa; ; Secretary-Treasurer,
Thos. McFarlane, of Illinois. Directors Thos. McFarlane, of ilinois. Directors
for three years, J. S. Goodwin, of
Mlinots: $\quad$ E. Marvin, of Ky .; Geo. Mlinois ; C. E. Marvi
Kitchen, Jr., of Mo.
the chicago poultry show. The show will be held January 22-27,
inclusive, 1908 , in the 7th Reximent inclusive, 1908 , in the 7 th Regiment
Armory, 16 th St., instead of the Collseum, as previously announced. Extenaive re-
pairs have made the Armory equally
 O. Prescot
Wyandotes,
Whenett will Judge Bun
White Wyandottes, White Piymouth Rocks,
Partridge
Balymouth
Rocks, Bums, Bantams, Anaconas, Dominiques, Dork
ings ; E. J. W. Dietz-Exhiblition Games, all Bantams except Buff Cochln, Sillkes,
Sultans, Sumatras ; W. O. Denny-Buff Rocks, White Leghorns, Moinorcas, SpanIsh, Creve Cooure, Favovelles, Frizzles, Malays ; W. R., Graves-White WyanCochins, Ducke, Geese, Indians, Langshans, Orpingtons, Rhode Ieland Reds, Turkeys, Buckeyes, LaFlech, Brown Log-
horns, Black Leghorns, Red Caps, Rumples, Secillans, Russtans; Thos. F. RiggAndalueclans, silver Wyandottes, Goldon
W, Wyandottes, Black Wyandottes, Partridge
Wyandottes,
Silver-penclled Wyandottee Wyandottes, Silver-pencHied Wyandottes,
Hamburge, Houdana, Javaa, Polimh, Jer sey Blues, Buff Leghorns, Blaok Lewhorns; and H. P. Schwab-Barred Plymouth Rocks. The various poultry clubs will
meet in the Association's club-room during show week.
The offcial premium lists and entry Flanks can be procured from Secretary
Fred L. Kimmey, Room 510 , 825 Dear Fred L. Kimmey, Room 510, 325 Dear
born St., Chicago, Ill. -

WARNING TO STOCK BREEDERS. Breeders of pure-hred stock in Ontario
are warned to be on their gulerd to evold being imposed upon by a notorious crook,
who is making a tour of the Province, masquerading under various aliases, some times professing to be an agent of "The
Farmer's Advocate." Farmer's Advocate," and in other cases
as a breeder in search of pure-bred as a breeder in search of pure-bred stocks,
his main object being to secure free board his main object being to secure free board
and lodging for a few days, thougtild
generally concludes the purchase of generally concludes the purchase of sonio
stock, and promises to mail a cheque or often short of expense money. and
modester modestly suggests that if he had enough
to pay his fare to the to pay his fare to the abode of some
well-known breeder he needs on his cheque or his cheek. He is really a tramp of the meanest sort. and a nuisance that should be run out of
any neighborhood in which he apper antter, perhaps, arrested as a vears, or and jailed. There is, it is satd, evidence of his having stolen articles of clothing
from homes where he hes from homes where he has been enter-
tained, and farmers will do well to fully scrutinize any caller of whom they have cause to be suspicious, and if this
one shows up, make it interestis one shows up, make it interesting for
him. His alias used during a recent tour in Elgin County was R. H. Reild, the name of a Bruce County breeder, but this will doubtless have been exchanged for
another before this reaches our reader The following description may aid in his identity: Height about 5 ft . 6 in ., dark hair and moulstache, welght about 140
lbs., wears his hair a trife long beht as., wears his hair a trife long behind,
a black euit, black stif hat and prairio
woll overeont woll overcoat. Koep a sharp prairio and make it Hot for mim is ho shows

Young bulle for fele grom 6 to 18
months old. all

R. Ji. Pohinilli, woblor puon ovit.
 \&
 HEREFORD CATILE por sale
 w. BENHET.
 THE SUWNYSIDE MEREFORDS
Twelwe high-olhin bull
calves and 4 yearling and 2 .

 Ilaerton 8 th. $H$, H, \& B.i Lnotan s a, $G$. FOREST VIEW FANIT HEREFORDS

 HEREFORIS-We are now offering a op

 ottawe and Sherbrooke. Breoding stoock and young things for gale. Writo for prioss abendeell-anous chrfle-piz
 all agos, by lmported bull POLLEP ANCHS OATTL 2 Anumber of thoroughbes froltaly Angus oatile for sale, inolyding cows. These cattle will be sold verto
reasonably. For particulars apply THE DALTON CATTLE CO. Drille Ont Dootola Inowehno rat

 CHAS, RAINKIII, Wjobrilige, Oilti
 OXFORD DOWY SEDMBP.
 SHORTHORNS FOR SALE 17 bulls from 7 to 13 monthe old, hired by Im . cown and heifierse , those of breeding ase bred to
Imp. Loyal Dulke Fltzterald Prose, Mt. St. Loule P.O.
Glenvale Stn. Hillsdele Tele. \& Telephone Omo. SHORTHORNS Cholce young buills for sale, readr for servieo dohn Elelop, Forticulars write to Po.. Ont Shorthorns Fiop balle-Two choioe red yeat dems; also fomalos of all amported siriand ALEX. BURUB, Rockwood P.O. and statloi, G. T. R. SCOTCH-TOPPED SHORTHORNS Five choice young bulls, 8 to 18 monthe; also
 SHORTHORNS FOR SALE Both male and Pemale, difforent agos. Prices
very reasonable. Tottenham sta., G.T.R. PORTEA, Mown, ont

Cown o. Mormionton, Briokloy P.O., Onts.
Hastings Station.


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 $1-\mathrm{mbou}$ ditu dointo


SCOTCH SHORTHORNS

Eitght nowly-imported bulle, right
for
quanity, color and breeding. Ir home-bred bulle, mostly from
Chportel orows, gired by imp. Bapton
Chancellor, by giver Plote. Importal Oow and Heite. in oalip Areeding, at easy prices.
H. J. DAVIS, Yomporkter and Breedor WOODSTOCK, ONT.
Scouch Shorthorns
HOLLEMOUNT STOGK FARM
Young bolle and ed sires and dam for sale at reason able prices. For partioulars W. J. THOM PSON, MItohell,Ont BELMAR PARO SHORTHORNS

 Address correspondenee to
PETER WHITE, Jr., Pembroke. Ont

## 6 Scotch-bred Bulls


DAVID MILNE.
ELIW GROVE SHORTHORIIS

 | Eari (imp.), our protesent hex herd bull.) or $\begin{array}{l}\text { For prilices } \\ \text { and particulars address }\end{array}$ |
| :--- | W. G. SARDERS \& SON, HURON HERD OF HIGH-CLASS SHORTHORNS The great stock bull, Imp. Broadhooks

Goodden Fame, at head of herd. Young
bull A. H. JACOBS, - Blyth, Ont A. H. JACOBS, $\quad$ Blyth, Ont
Snorthorns and Yorkshires Yor kew bir
pizg, either sex, from imn, sire and dam. Alir


## cossip.

| Mr. Wm. E. Hermiston, Brickley, Ont., Writes that he has disposed of all his Shorthorn bull calves, and has purchased for a stock bull, a roan calf, of good quality, eleven months old, sired by Morning Star (infp.). <br> Messrs. W. J. Shean \& Co., Owen Sound, Ont., write: " We have recently sold a beąutiful Shorthorn bull to Mr. Geo. Tolchand, Chesley, sired by Famous Pride (imp.), first-prize buill at Toronto, and out of Orange Blossom 2nd (imp.), a Marr Roan Lady, and a prizewinner at Toronto, London and Winnipeg, also first at County Show, Owen Sound, 1905. He will, no doubt, make an excellent stock bull for his owner. To Mr. John Atkinson, Strathavon, a beautiful three year-old heifer, Duchess 10th, a good representative of that grand old family, the Duchess. She is, no doubt, a good investment for Mr. Atkinson, as she is the right kind for a start.' <br> Mr. J. G. Truman, Manager of Tru- |
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|  |  | Farmer's Advocate" Farm, whiter date of Janu-

ary 1st: "We have shipped to-day to our London stables what we think is the
best carload of draft stallions ever
shipped to Ontario for cale. Included in this shipment are Shires, Percherons
(blacks and grays) and Belgians, a.ll imand four years oidd, with all the weight
all
pone, substand bone, substance and quality possible to
get. From a breeding standpoint. they
are number are number one. In fact. they are
strictly first-class young stallions, either one ready to go into the show-rings.
Our Mr. H. W. Truman, who has charge of our Canadian business, wolected thase
horses in person, and had the horses in person, and had the choice of
upwards of one hundred stallions to select them from, and I think when your
Canadian readers call at our stables in Canadian readers call at our stables in
London and see them together with those London and see them together with those
that we shipped him leat month, they will quite agree that they month, they first-class statboe of horses, and atrictly
to the Truman standard. Am pleased to to the Truman standard. Am pleased to
say that our trade in Ontario this year is all we could ask, we having sold more
horses up to this time than we did any previous season. During the three years
that we have run our stable in Lendor we have tried to ship there the very best
horses possible to import from the old Countries, and each year trying to out-
do oureelves. A great deal of the cretit
for this business, we cheerfully pive to The Farmer's Advocate,' believing it to livest
tinent
 of the great Duthie bull, Star of Morin
ing, and out of Imp. Carnation Queen,
of of the so many Remizewinning and highpriced bulls. Royal William, a red-roan,
also by Imp. Cyclone, and out of Imp.
and also by Imp. Cyclone, and out of Imp.
Dutchess Anne, will be 18 months old at
date date of sale, and should prove a very
desirable bull, as also should Gran Prince, a red imported 10 -months-old cal
bred by Mr. Robt bred by Mr. Robt. Bruce, of Heatherwick
and sired by Winning Hope, a Bruce-bre bull, got by the Marr Maud bull, Gold en Hope. These together with the 22 young cows and heifers, three of which
are imported and several others from imported sire and dam, will make an at tractive offering, and should find ready buyers at fair prices in these prosperous
times, with the encouraging prospect times, with the encouraging prospect for
an increasing demand at improving
prices from the States and the new Westprices from the States and the new West-
ern provinces. This sale will afford ern provinces. This sale will afford a
good opportunity for breeders to meet in good opportunity for breeders to meet in
a district famed for its excellent herds a district famed for its excellent heras o
Shorthorns, to make new acquaintances
and renew old ones, and we anticipate Shorthorns, to make new acquaintances
and renew old ones, and we anticipate a
large gathering of stockmen from many port
A U WONDER MUTTON IS HIGH A United States representative who ha
been studying quite fully the subject of mutton consumption and supply reports
that from 1873 to 1904 the flocks of Germany have declined over 60 per cent.
Since 1869 the Since 1869 the flocks of Austria-Hungary
have decreased 49 per cent. Since 1873 have decreased 49 per cent. Since 1873
those of France have been reduced 30 per cent., and since the same date, those of
the United Kingdom have delined per cent., while it is estimated that the
sheep of the United States 25 per cent. less numerous than five or six years ago. The only two countries So which there has been any advance are South Arrica, where the increase is slight, 7.500, 0 gen fina, where the increase was 1838 to 1895 , since which date it is though there has been some decline. These figures indicate that
the flocke of the world have decreased
93 the flocks of the world have decreased
$93,000,000$ since 1873 , or an average of
about $3,000,000$. Offcial records of 89 Holstein-Friesian cows from Dec. 7 th to Dec. 28 th, 1905 ,
have been accepted. The avera ages were as follows: The averages by aged cows averaged: age, 6 years
months 12 days; days months 12 days; days from calving, 21
milk, 415.3 liss.; per cent. fat, 3.50 .
14.539 14.539 liss. Twelve four-year-olds aver,
aged : age, 4 years 6 months 5 days aged: age, 4 years 6 months 5 days
days from calving, 24 ; milk, 414.4 lbs.
per per cent. of fat, 3.56; fat, 14.744 lbs
Fourteen three-year-olds averaged: ag
3 years years 2 months 28 days; days from
calving. 23 ; mill, 338.3 lbs. : per cent.
fat, $2.52 ;$ fat. 11.915 lbs. Twenty-nine Pat, 2.52 ; fat, 11.915 lbs Twenty-nin
heifers classed as two-year-olds averaged
age, 2 years 2 months 8 days; days from age, 2 years 2 months 8 days ; days from
calving, $55 ;$ milk, 280.7 lbs. ; per cent.
of tat, 3.53 ; fat, 9.925 lbs. Elzevere Barnum Metchthilde, 18.57
lbs. fat from 560.1 lhs na Ruth, 18.403 lbs fat from and Johan
milh, lead the aged cow class. milh, lead the aged cow class.
As in last issue, it mayy again be profit
able to consider these 87 heifers as consider herd. These 87 cows an
week the 87 animals produced in on $1,096.82$ lbs. butter-fat from 31,113.4 lbs. milk
showing an average for the herd of 3.53
per cont fat. The average for each ani
mal was 12.607 mal was 12.607 lbs., fat from each ani-
mik, and the record averaged 33 days
from calving. This is about 51.1 lass
milk, and the equivalent of tenth pounds of best creamery butter per
day. Included in the list are the for-
ing owned in Canada by Geo. Rice, Tillsonburg, Ont.:
Belle Devdrop 67841 , age 4 years 2
months 11 days; days from calving, 14 months 11 days; days from calving, 14
Milik, 402.1 lbs., per cent. fat, 3.98 fat, fat,
16.005 lis.
Winnie Winnie R. Countess 66182 , age 3 years
2 months. 16 days; days from calving, 11. Milk, 375.6 ibs.; per cent, fat 3.73;
fat, 14.042 lbs.
Boutsje Q. Pietertje DeKol 66031 , ace
 Calamity Jane 2 nd's Josch 70288, age
1 year 7 months 22 days; days from
 wood
family.
by Imp.


GIREMEGKLL EBRIR SHORTHORNS

bull oalves, of ering for sale 19 high-class femalos, all a alises, at
modarate moderate prices. The herd is
headed by the great breeding headed by the great breed.
bull (Imp.). Lord Roseberry. Mitohell a sons. Felson P.O., Ont.i Burlington Junc. Bta. Rivorviow Shorthorns and Oxiords Ehorthorme reprenent Orimeon Flownan. We have for sale eight bulls, inoluding our stook
bull, four yearlings, and the balanoe oalves;
 and one-year-old Oxford ram
Potor Ooohran, Almonte P. O, and gita. And Sootoh shopthorn Oattlo Herd headed by the Duthicobred bull (imp.
Joy of Morning, winner of fres prize at Do mindon Present offering ; young Shorthorns of

 JOHM GARDHOUSE \& SON8, Highfioh P.O., Ont. Scotch Breeders of




GLENAVON STOGK FARN Shorthorns Have from choice milking strains two registere W. B. ROBERTS, Spanta P. O
 Young stoak of either sex by imp. sire at reason
able prices. For particulars write to
 PROSPECT STOCK FARM. For sale: \&
 ville and Streetsville, C.P.R.R. Brampon, G.T.B
Peel Co. F. A. Gardinar, Britannla, Shorthorns, Leicesters and Berkshires-1 Leicesters For For partioculars address
 LAKEVIEW SHORTHORNS. pirch King (Imp.) at head of herd. Young bulls
for sale reasonably. For prices, etc., apply to THOS. ALLIN \& BROS., Oshawa, Ont.


Whitechuroh P.O. and Station. BARREN COW CURE mankes any anmalal under 10 years old breed, or
refund money. Given in feed twice a day
Petion L. F. SELLECK, Morriebure. Ont. SUNNYSIDE STOCK FARM
 JAMES GIBB, Broole Po SHORTHORNS AND DORSETS ewe lam, seven to nine months old ; also a few
reesonable and ewes in lamb for sale. Prices Mapleview Farm. HARDINGo
Wm. Grainger \& Son. horns. Aberdeen Hero deep-milthing Shomt
Eight grand
Sigh horns. Aberdeen Hero (imp.) at head of herd
Eithtyrand yougb bull by Prince Misty $=37884=$
Prices reasonabile.

Londesboro 8te. and P.O.

Scotch Shorthorns

SHROPSHIRE SHEEP.
4 yearling bulls.
12 young bulls 8 to 13 monthe, all from imp. sires and dams
heifers under 3 yoars
he

W. G. PETTIT \& SONS, Freeman, Ont. Burlington Jet. sta. Long-distance tele HILLYIEMETOCKPRRM SHORTHORNS, clydesdales and Present offerings: Choice young bulls and
heifers. Also a few good young oowe pply to JOHN E. DISNEY \& SON,
 $1864+$ HILLHURST FARM +19 SHORTHORN CATTLE

 JAS. A. COCHRANE, o Compton, P. Q
R, A, \& J, A, WATT, sackemporin 13 miles north of Guelph,on the G.T.R. \& C.P.B.

This season's offering comprises ten youns red in the equal number of heifers, ric
pricteh blood.
Ouenston Holghts Storthorns Straight Scotch. Two bull calves at easy prices.
HUDSON USHER, Queenstom, Ont
SHORTHORNS
Headed by imp. Old Lancaster. Young
stock for sale. For particulars, write or
 GEO. AMOS \& SON, Moffat, Ont KENWOOD STOCK FARM. SHORTHORNS.
 young bulls; also heifers; from imp. and home
breed oows for sale chome Lincoln sheep
Berkshire and Tamworth hoge offered. SHORTHORNS AND LINCOLNS.


FOR SALE OR EXCHAMGE
Scottish Baron $=40421=($ imp in dam).
Also several young bulls and heifers. H. GOLDING \& sons, Thamesforfi, Ont. BONNIE BURN STOCKFARM Offers Scotech and Sotch-topped bulls,
cows and heifers. 50 Shrophire rams and eves,
cown cows and heifers, 50 Shropshire rams and ewes,
and Berkshire pigs, from imp dame and gires,
not akin. A bargain for quick gale. D. H. RUSNELL, Stouffilile, Ont Shorthorn Cattle, Leicester Sheep,
 BOWHILL SHORTHORNS AND LEICESTER yow for sule. Smooth, ven. good size, and gooo
individuals a also a few good home-bred bulls and
 SPRING VALLEY SHORTHORNS.
 Wen very best breeding and prices ri
And correspondence invited.
-E BROS., Ayr. C.P.R.I Parle, G.T.R CK PARML SCOTCH SHORTHORNS milies. Herd headed by the grandly
ender bull. Wanderer's Star $=48585=$











Sulto, Wosulito mul lisect Bltus.


## Maple Shade

 condex


 JOHN DRYDEN \& SON, Brooklin, Ont.
 T. DOUGLAS \& SONS, SHORTHORII and CLYDESDALES

 Pine Grove Stock Famm.

High-class Scotch Shorthorns, hoice Shropshire Sheep, Clydesdale and Hach
$\qquad$
Maple Lodge Stock Farm. An excellent lot of Shorthorn bulls and hersins. Have a few Leicesters left yet. Bar-
stres. A. W. SMITH, Maple Lodge, Ont. 3 Shorthorn Bulls 3 or shio imue
WM. D. DYER, Columbus, Ont



CONDITION POWDER
Is the following condition powder harm hate of iron, gentian, ginger, antimony saltpetre, tartar emetic, fenugreek, equ

Ans.-The above drugs used in moderate
doses should prove a suitable tonic; safe
to use for an in-foal mane. We would
advise its continued use.
the mare is in ordinary health, all she
needs is good care and feed. You might,
however, give her a teaspoonful twice a however, give her a teaspoonful twige a
day for a week, and then once a day for ay for a week, and then once a day for
the next week; but continual doping is to
le deprecated.
probably parturient paralysis.

$$
\begin{aligned}
& \text { appearance; but one morning I found her } \\
& \text { anaule to rise, and after putting her upon }
\end{aligned}
$$

$$
\begin{aligned}
& \text { analle to rise, and after putting her upon } \\
& \text { per feet, she could not stand, yet, she } \\
& \text { ptill continued to eat heartily; but in a }
\end{aligned}
$$

$$
\begin{aligned}
& \text { still continued to eat heartily; but in a } \\
& \text { sev days she ate less, and finally would } \\
& \text { not eat at all, in a week she calved, and } \\
& \text { two days after she died. There was no }
\end{aligned}
$$

$$
\begin{aligned}
& \text { two days after she died. There was no } \\
& \text { sign of injury of any sort. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { sign of injury of any sort. } \\
& \text { 1. Whgt do you think could be the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 1. Whgt do you think could be the } \\
& \text { matter ? } \\
& \text { 2. Could you prescribe any remedy? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans.- } \text {. From the symptoms given, we } \\
& \text { would think the cow had either par- } \\
& \text { turient }
\end{aligned}
$$

$$
\begin{aligned}
& \text { apoplexy (milk fever), more likely the } \\
& \text { former. } \\
& \text { 2. Treatment for parturient paralysis }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ity of food, keping comfortable, and give } \\
& \text { ing the best of care and a nerve stimu- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ing the best of core and a nerve stimu } \\
& \text { lant of say one fluid dram nux vomica in } \\
& \text { a drench three times daily, With this, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a drench three times daily, With this, } \\
& \text { a stimulating liniment might have been } \\
& \text { applied to the loin, of ammonia, turpen- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { applied to the loin, of ammonia, turpen- } \\
& \text { tine and linseed ooll. Treatment for milik } \\
& \text { fever, which sometimes, though seldom, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { fever, which sometimes, though seldom, } \\
& \text { occurs before calving, would have been } \\
& \text { pumping air into the uddor a }
\end{aligned}
$$

$$
\begin{aligned}
& \text { pumping air into the udder as so often } \\
& \text { recomniended in these columns. }
\end{aligned}
$$

BURS IL ENLARGEMENT- WWNTER LAY

$$
\begin{aligned}
& \text { 1. Colt has or ompicnT. } \\
& \text { hind leg, known to me (soft) on inside } \\
& \text { treatment and cause. as a puff. Give }
\end{aligned}
$$

$$
\begin{aligned}
& \text { treatment and cause. } \\
& \text { 2. I would like to put in cement floor } \\
& \text { in horse stable, and as time is more }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to put it in now o Has any special way } \\
& \text { to be adopted for winter laying ? } \\
& \text { E. G. K. }
\end{aligned}
$$

Ans.-1. Our correspondent should be
more specific as to the location of to
$\qquad$
$\qquad$
$\qquad$
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$\qquad$

## SCOTCH SHORTHORIS

## 9 heiters, yearlings.

 29 heifers, calves.26 bulls, calves.
26 bulls, oalves.
All out of imported sires and
dams.

Pricos easy. Catalogue.
John Claney, H. CABCLLE SOM, Spring Grove Stock Farm Purther hall wid dimath Sum


THE FARMER'S ADVOCATE

Buy a Holstein Bull and Improve Your Dairy Herd? I have
them Rithit in Breeding. Reht in Quality,
Ritht in Prite. Order enty if in want one o G. W. CLEMONS. ST. GEORGE, ONT HOLSTEINS AND CHESTER WHITES
 $\frac{\text { (i. T. R. and street cars. }}{\text { MAPLE GLEN STOCK FARM }}$
 IMPERIAL STOCK FARM HOLSTEINS Sock hor sale, all ages, imported
and home-bred. W. H. SIMMONS, Now Durham P.O.

Lyndale Holsteins BRO WN BROR
"GLENARCHY" HOIS, Ont We have for immediato sale eoveral yours buns
nd a number of young femeles, that or bidea
ype nd ber
 C. MACINTYRE, Renfrem P.O. and stn.

## GOSSIP.



Mr. John Campbell, Woodville, Ont owher of the Fairview flock of Shrop
shire sheep, writes: In its twenty-five years' existence that high-standard flock
did not have so successful a business year did not have so successful a business yea
as the one just closed. Having with drawn one from fall show-rings, customer from all over America have freely atronized it, frequently sending their or
ders, enclosing cheque, stating: "S Send me the best you can for the amount en-
closed." And not one customer. so far closed." And not one customer, so far
as known, has been left dissatisfied. Mr. Campbell's determination has been, and
ontinues to be, that everything possible continues to be, that everything possible,
and in reason, shall be done to give good
values in filling order values in filling orders placed in his where. In his offerings in a new advertisement on another page, he writes that several of the ewes offered will be sold at
lese than half of what ram lambs from less than half of what ram lambs from
them in 1905 have already sold for. JOHN WATT \& SON'S SHORTHORNS. One of the oldest and most successful
Shorthorn breeders in Canada is Mr. Shorthorn breeders in Canada is Mr.
John Watt, of Salem, Ont., whose long
and honorable career as one of the leading Cainadian importers and breeders, and
whose life-long service Whose life-long service to the country in
the upbuilding and improving of Canadian beef cattle, will long perpetuate his memory. Lint nther, like son, is amply
verifed in the son, who has now taken verified in the son, who has now taken
active charge of their large and choice
herd of imported and Canadian-bred aniactive charge of their large and choice
herd of imported and Canadian-bred ani-
mals. It is certain that never before has the herd been quite up to the high
standard of excellence that the 40-odd
head now in their commodious stoble head nesents; representing as they do Scot-
prent
land's land's most noted blood in such families
as English Lady (identical with the Marr Roan Ladys). Strathallan,
Crimson Flower, Kilblean Beauty. Cruickshank Mysie, and Miss Ramsden, at the
head of which is the typical and richly head of which is the typical and richly-
bred prizewinning bull, Duke of Richbred prizewinning bull, Duke of Rich-
mond 58415, by Imp. Royal Archer, dam
Imp. Duchess 42 nd . by Village Archer Imp. Duchess 42nd, by Village Archer.
He is a roan, ideal in type, and handles
like velvet. Second in like velvet. Second in service is Heather-
man 59153, by Imp. Merchantman, dan
Beauty 34th (imp.). by Count St. Clair. Beauty 34th (imp.). by Count St. Clair
He is a K Kilbean. Beauty. and his naike
up leaves very little to be desired. A
large numbry of the female


OUESTIONS AND ANSWERS

registration of clydesdaligs. Can you tell me whether the following
horses ame registered in the Cauadian
Clydeana horses ane registered in the Cauadian
Clydesdale
Studbook or
Sotat old Sovereign, Darnley's Chiel, Muirhead, lippen Davie Champion? If they are not registered, can you find out if they
w. S. F. Ans.-We fin
1, imported in 1895, died in 181 in Vol.
Darnley's Chief also
[920], imported in in 1888 Darnley's Chief [920], imported in 1888
by Mr. Beith. We do not by Mr. Beith. We do not find the other
two horses in the Canadian Studboer $t w o$ horses in the Canadian Studbook
but would advise you to write the Registrar, Mr. F. M. Wado, Department
of Agricultura, Ottawa, who is in a posi-
tion to give fuller information.

## tanming seins with hair on

Kindly tell how to tan cat and other
Ans.-We give below three recipes for
Anning such skins with the fur on:

1. Stretch the skin smoothly tightly upon a board, smoir side an down
and tack it by the edges to its place. Scrape off the loose flesh and fat with
blunt knife, and work in chat with plenty of hard rubbing. When the chalk begins to powder and fall ofr, $r$ move the skin from the board, rub
plenty of powdered plenty of powdered alum, wrap up close
ly, and keep it in a dry days. and keep it in a dry place for a fe
dhis means, it will be made pliable, and will retain the hair. 2. Soft water, 10 gaillons; wheat bran acid, 2 it pounds. Dissounds; together, and
place the skins in the solution them to remain 12 hours, then remov and clean them well, and again immerse
12 hours or longer, if necessary. The akins may then be taken out, well. Washed
and dried. They can be beaten soft, if de sired.
2. Saltpetre, 2
parts.
 side, roll up. and lay in a cool place and rub till pliable.


## When CHOREA.






 Seven miles from. E. GEORGE, $\qquad$






 Campbellord stn. o Markworth P. $O$ Holstelns, Tamworths, Oxford \& Dorset
 Tamworths, both sexes. RIVEBSIDE HOLSTEINS


 DoIn't V阝ent!

## BE UP-TO-DATE

 W. VV. ヨVEIRITHE edin Park Farm, Chatham, Ont. Pine Ridge Jerseys - Present offering: Some
 M WILLIS, Newmarket, Ont Brampton Jersey Rerd-We have now for in

 Highgrove Jersey Herd Our present offerin
 from producers and sired ly richly-bred bllls.
ROBT. TUFTS \& SON. Tweed P.O. \&Sta. STOCK WOOD AYRSHIRES FOR SALE a choince lot of cows and lull chlves 6 monthe; also
and (cifers coming in Sept
 SPRING BURN STOCK FARM, North Williamsburg.Ont.
 AYRSHIPE



JANUARY 11, 1904
THE FARMER'S ADVOCATE.
QUESTIONS AND ANSWERS. Veterina
Two-yoar-old filly has a soft swelling from the mammary gland forward for about three or four inches. Sometimes
it is sore, and causes her to it is sore, and causes her to hump when
she trots. The swelling increases in size she trots. The swelling increases in size
when she stands in the stable. K. M. D. when she stands in the stable. K. M. D.
Ans.- Give her a purgative of six drams Ans.-Give her a purgative of six drams
aioes and owo drams ginger. Fead bran only fer 12 hours before and 24 hours after administering the purgative hours low up with one dram iodide of potash twice dally every alternate week, and rub
the parts well twice daily as cessary with a liniment composed of four drams each iodine crystals and iodide of potash, amid
and alcokel.

BULL WTTH TUBERCULOsIs I bought a young bull on the 13th of
June last. Fed him on grass as long as grass could be had, then fed grain long
hay; but all the time, the and as grass eourd be had, then fed grain and
hay; but all the time, the animal did not
thrive, and was loose in bowels, passing thrive, and was loose in bowels, passing
a very black matter. About the first of
November he matal a very black matter. About the efrst of
November, he took a lump on jaw; lump
not attached to the bone. not attached to the bone. $\begin{gathered}\text { Lump broke } \\ \text { and ran to the outside, and appeared to }\end{gathered}$ and ran to the outside, and appeared $t$
run all out. He then took a dry, short
choking cough; failed choking cough; failed very fast, and at
very little, seamed as through it was and for him to sewallow. As though it was hard
On December 26 th
on $S$. pronounce ore V. S. pronounced it tuberculoris, and
ord sered him to be killed. 27th, another V. S. S . was called and December
it was not tuberch it was not tuberculosis, but that all the
trouble was from the lump jaw, and or
dered dered him killed. I had the and or
killed at once. The last mentional S. examined him, but I am not satisfied
with his decision. Bull was 23 month 1. What was the disease?
2. Can I compel the man I bought him
from to pay me back my money part of it ?
3. Will an animal as young as any have tuberculosis? as young as this Ans.-1. From the description of the
symptoms We incline to think the first
vet. was right in thin et. was right in his diagnosis, but he
had no right to express a positive opinon to hids effect without using the ouberauthority to order the animal destroyed
all
all Al they eould tegally do do deuld be to which the second a cot. pronounced lump aw was, in all probability, a mere tubercular swelling.
2. It is likely ipient otages of tuberculosis when you bought him, but there is no evidence
the seller was cognizant of the fact, and we do not see how you of the fact, and prove that
the animal was iniected and, as you imply, by your when bought, the case, that no, guarantee a accompantied
the saln, we do not see that you have any cloim for a refund of purchase money.
3. Tuberculosis attacks animals of all

Miscellaneous.
FERTILIzEES FOR TURNIPS

of the soil, hence applications of
anosphate are particularly profitable

nsed in Any special turnip fer-
ferthizer, like barnyard a manum-
Mnsizer, whilly barnyard manure.
it phosphate. There is need of much


AYRSHIBES and YORKSHIRES
bulls. A few young cows, young bulls and
calves, all bred from the best calls.e, all bred from thew, best known milk
ing strains. Jan. and March boars and ing strains. Jan. and March boars and -
young pigs of good type and breeding. Soe us at Toronto, or write for prio

Menle P. O.

AYRSHIRES
The famous Reford Herd at St. Anne
Bellevue, Que., now owned by
Bellevue, Que., now owned by
Sir William C. Wacdonald.
Several yearling 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 constituti
large toats.
For particulars apply to
MACDONALD COLLEGE

## AYRSHIRE BULLS

Fit for service; sired by Royal Peter, imp.
Grand Champion at Dominion Exhibition thid
vear
 Lessonosock, both champioionsand out of daugh-
ters of imp. Daisy and imp. Kirsty.
ond
W. W. BALLANTYNE, stratford, Ont. Maple Cliff Dairy and Stook Farm Breeders or Ciydescale Horses, Ay rshir
Cattle terkshire and Tramerth Pigs
Young stock for sale at all times.
 nireaciovenile Freman Ayrshire Cattle, Shropshire sheep. Berkshire
F. R. YUILL. Prop.. Carleton Place, Ont.

SUNNYSIDEAYRSHIRES.
 John W. Losan, Howiok station, Que。 HIGH-CLASS AYRSHIRE CATTLE Bulls and heifer alves, two to nine months
old, cows and heifers all ages. Prizewinners from


Shropshires 1 |l

sixh searing ewes. Rame are good
enough to hoed any fock The
owee are e choice lot and will be bred
toin
to imp. ram.
John Miller,

## Shropshile al Cotswald Sheel

SCOTCH SHORTHORNS and
 CLYDESDALES
Choice ram and 50 shearling Also for sale. Apply

## JOHN BRIGHT,

Myrutle Station, Ontarlo DORSET HORN SHEEP an The latter repreating thens

 Nomth Johm A. Mogilliviay
HIDES, SKINS
WOOL, FURS, TALLOW, Etc

## prices.

. T. CARTER \& CO.. Toranto
Farnham Oxford Bowns

$$
\text { Won } 70 \text { Prizes in } 1905 .
$$

 rams a aliors anumber of rimported and
ewe lambs at reasonable prices.
 FA IR VIIE W SHIROPSHIIRTES





SOUYERDOWLSS


 hobert molwinin, byobs, civelitio. shnowitivit From the Boet Brent EVES Homo-bred Rams nad mwee, both sicuphire
 noberer millerf. Writo me. . BRO AD LJGA OXFORDS

 Dookierels a reasoneble pricoes.
Orrespondenoe promptly answered.
 Teeswater,. SHROPSHIRES We have for sale a number

 Improved Yorkshires
 also a number or thrime
not akkin, ready for shipme
GEO. M. SMITH Haysville P.O.. Ontario.
POLAND-CHINAS Two littors farrowed Oot. 19th. Prieo, \&10, registirere, reroated and f.o.b. here NEWCOSTLE HERD OF Tanworth Swine and Shorthorn Cattle


 OLWILL BROs., Nowomatio, Ontime TAMW boars sired by \& MOLSTEINS
 airs not aldin. Aiso cows and oal reeay tow the call on suins. Ailat moderato prices. Weril T R M TVO NTM Crillyiso ano boars at for nervicei sivo otholeo tot of


OURSTIONS AND ANSWERS, Miscellaneous.
silage for begr or min propuction Is ensilage more profitably used in the prodtrotion of milk or beof? There gibjeot. GALLOVIDIAN. Ans.-Corn ensilage is a great feed for either when used with other feedstuffis tha thing its succulence is a greater a thing, its succulence is a greater adproducing gain in carcass weight. But no farmer who can grow corn successful no farmer who can grow corn successfulman who grows corn should fail to have a silo to preserve it in.
dificulty in chuming.
We have churned three times, and can
get no butter. We are milking five cows and feeding them hay and grain. We always use creamers. Would the presence ake any difference?
Ans.-Do you use a thermometer, o There is a great chiffrning temperature in the churna bility of crearn from different cows. Probably also your cows are all nearly
dry: if so, this fact would account for the dry; if so, this fact would account for the
dififculty. The addition of a fresh-milch cow would help to overcome it. Succuwould also have a beneficial influence
Raise the churning temperature high enough to bring the butter in one-half to thres querters of an hour, and do no have the churn more than hali full. Th
presence of pigs in the cow stable, presence of pigs in the cow stable,
though undesirable, has nothing to do
with the churnability of the cream.
 I am considering raising our barn next
apring and putting in a cement stable I am in a position so that hollow-block wall. or solid concrete could be built for
about the same figure. Good gravel is about the same figure. Good gravel is
cheap, two miles from home. 1. I would like your opinion as to
which wall would be the better, 10 -inch solid or 12-inch hollow wall.
2. Would this be heay enough for barn $36 \times 72$ ? About how much grave and cement would be needed for an eight-
foot wall and also for the floor ? 3. Would you advise putting roothuse under the approach to the barn ?
Ans. -1 and 2 . We think you must be mistaken about it being possible to build
the cement-block wall as cheaply as the solid concrete, for under no circumstances that we are aware of can a ce
ment-block wall be built so cheaply as a solid one of the same thickness. Ce
ment blocks are being largely used in ment blocks are being largely used in
erecting houses, but they do not seem so satisfactory for burns, being hardly
strong enough beem strong enough. For a barn, the size
specified, we would advise making the
wall not less than 12 inches thikk wall not less than 12 inches thick at the
bottom, tapered to about 10 inches at the top. As for quantities of material. more accurately for himself, knowing the dows. About 128 cubic feet of gravel are required to build 100 cubic feet of
wall. If field stone are available, a good many load graver and cement. If first-class Port land cement is used, it should be mixed
with the gravel in proportion of 1 to 10 parts, and one barrel of cement will do ment is usually mixed about 1 to 5 for building walls, and one barrel of it will
do about 20 cubic feet of wall. of a barn $72 \times 36$ feet, and an average proximately, 1,550 cubic feet, less what space is occupied by doors and windows,
and would probably require about 6.5 loads of gravel, minus whatever quantity of stone is used, and 40 to 45 barrels
Portland or 70 barrels of rock cement. For laying the floors, you would require
about one barrel of Portland cement for 80 square feet of floor, or 28 to 30
barrels of cement. Of rock cement, about 50 ibarrels would be required. About 35 or 40 yards of gravel should be supplied,
lees whatever quantity of field stone it is proposed to work in.
3. The approach to a barn is an excel-

## THE STRONG MAN WINS



Every day we have evidence that the weakling has n place in the busy humdrum life of to-day. It takes nerve and strength to go up against the obstacles wo are no forced to encounter, and this the weakling lacks. Look about you and see the successful man of to-day--it matters not whether be be a merchant, lawyer or laborer-with head erect, eye clear, strength in his every movement. He is ready to tackle any problem with that enthusiasm which iusures success.

I can make just such people of weaklings. I care no how long they have been so, nor what has failed to cure them. Let them wear my
Dr. McLaughlin's Electric Belt every night as I direct, and in place of the weak-nerved, debilitated
being I will show you a strong person, full of vigorous ufe, with nerves like steel and ready to look anyone in the fact and feel that
no to the equal or wo wert or twem and can do wher twey cour do.

You whil say this is promisino a sreat deal. I know it, and cal chow you evidence that 1 have done it for thoussands of weak people, and every one of them has apent frem
they came to me as a last resort. Are you weak or in pain? Are you
nervous or sleepless? nervous or sleepless? Have you Rheumatism, Weak Back, Kidney
Trouble, Weak Stomach, Indigestion or Constipation? Are you lack Trouble, Weak Stomach, Indigestion or Constipation ? Are you lack-
ing in oitalisty? 1 can give you the blesalng of health end strength. Ing in witasty I can give you the blessing of health end strength. youth. My Electric Belt is worn while you sleep. It gives a sooth.
ing, genial warmth into the body. This is life-vigor.

[^0]8. 1905

Port Arthur, Ont., Oct. 8, 1905. I understand the directions thoroughly, and my back is all right. I am not wearing st this last couple of weeks. I
feel ilke a NEW MAN. I am eatisfled with my inveetPeet like a NEW MAN. I am satisfled with my invest-
ment all right, and woula have writen booner but could
not and will pralso your Belt to all I meet. to write to you
not. I will
nod Yours truly, JAS. LAWLIS, Box. No. 77
 1903. cured me of heart disease, and I am able to work and tend to business as well as ever. and my pulse is quit
normal. I highly recommend your Beit for indigestion and
all If your patients would pay attention to the advice yo glve them they would not be long alling. With best
wishes, I remain, yours very truly wishes, I remain, yours very truly, jAs, JoHnston method enabie BIC BERT UREE UNTI CURED
CAUTION.-Don't be misled by imitators. Remember that electricity must be properly applited to cure and that
ior your case there is bat one way to apply it properly. Without that you mi ght just as well not use it at all.

## CALL TO-DAY.

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