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Vol. XXXVIII
LONDON, ONT., AND WINNIPEG, MAN., APRIL 1.), 1903
EDITORIAL

Agricultural Co-operation
$\qquad$ principles of co-operation, joint stock companies, and other modern business methods in their relacationists, and farmers sadly neglected by eduwrestle with such problems without the assistance of specially-trained minds. In this country the benefits arising from judicious co-operation are faintly believed in, and the system vaguely undertood. Keliable experience sufficiently applicable has been scarcely available, and, therefore, farmers undertake co-operative effort under cir cumstances that court failure. The non-success of many so-called co-operative concerns has prejudiced such enterpises in many people's minds. rerhaps the reason farmers' combinations have not been generally successful in this country is pose and pose and competent management. In many instances they have suffered from internal jealousies or want of confidence in the management. Early in the history of co-operative enterprise, cranks ook up the question and made it a hobby, claimng the prevalent commercial and industrial evils.. Such agitation, course, has tended to retard the advancement of satisfactory co-operation. It should be remembered that co-operation is not a visionary
scheme to reform the world. It is not a sure vay to ease and comfort. It is not a mean hereby the business of production and distribution will run itself and pour dollars into the pockts of its disciples. It is not philanthropy. It an simply an ellort on the part of a company of ersons to secure to the fruits of labor a larger emuneration, by reducing the cost of production nd distribution. Co-operation among farmers is .eady practiced in Canada to a limited extent, and judging from the results obtained here and in other countries where it is more extensively car proportion to the degree of co-operative effort inMiligently exerted
$\qquad$ orin joint 'stock enterprises. The object of the ant is to secure for capital invested remunera fon from the distribution and production o "ealth. A co-operative organization is not* a capital. It is observed that the objects of the Nro systems are antagonistic in the sense that capital and labor are opposing lorces. Instances, tems act in a single organization. Such can rasily be concelved of where a number of proHucers of wealth, farmers or artisans, wish to in1 dual purpose organization the best advantage. I dual purpose organization such as this is alencern, and should develop from the latter rather han be introduced and promoted in the place of As an instance of the difficulty of operating dual purpose organization, how stich case the Palmerston, Ont., pork-packing Company. The object of this company and sim-
ilar ones was to handle the hogs of the shareilar ones was to handle the hogs of the share-
fintlers in such a manner as to secure for them Whlers in such a manner as to secure for them king business. The method was to advance a aking business. The method was to advance a
of the delivery of the hogs, and the balance with ing. But when, as has been alleged competing companies offered the shareholders a price for their hogs considerably above the first price advanced what they expected ultimately about equal to temptation was too receive, the business too intricate, and the final market price i. pork too uncertain for the shareholders, who it is said, withdrew their patronage from their own business. From this or other reasons, sul.s have been unfortunate.
Instances might be cited of remarkably successful joint stock companies, such as the co operative stores of England, which have a closer reation to the mercantile than to the strictly agiculcural imdustries.
Conditions of farming in Canada in previous Jears have apparently not been conducive to exneither co-operative ellort, unless in dairying its are have the people very enthusiastic in is compelling the competition of other countries is compelling us to study the methods of our thest successiul competitors. In this connection have advanced the coxamples. These people greatest devel removed from extreme socialistic people are so far first began specializing in dairy farming; latey they introduced co-operative principles into thei ousiness, and finally have combined the principles the poper enterprises in stores, etc., all for the betterment tions. Their latest operation has been to form in the way of con within the circle of ties, for the purpose of assisting each crease the productiveness of their dairy herds in systematic effort they have in a materially increased the sverage productiort time their cows, and they realize cost of production in this way foy to the profits of their business are adaing end of his business the farmer can control with a good degree of certainty, but not so when it comes to mercantile operations, especially where these come into competition with vast capitalistic enterprises, as developed in America to-day The success of the Danish system is the of an evolution, not a revolution. They first coexperience and education gained in the first effort were enabled to undertake greater enterprises o-operatise spirit must be cultivated before the and be extensively practiced. We cannot relop. The stimulus afforded co-operation by a spe ial-
ration in farming is well illustrated in the Northest Territories, where the organization known as the 'Terntorial Grain-growers' Association have taken in hand the matter of shipping grain, and ion in favor of their contentions. In this mocue oi en were manimous. They did not try th ally and effertually placed their domands befone hoir present representatives. It is evilent, therein' that co-operative effort can be made is serve
more skillisul in the mursuit of that paral brauch parsuit of that particula faneous programme fors a misce that the more sliflemb other in the matter or ang the best returns for their lan in secur

## Economize Labor

The scarcity and the high cost of farm hel gsests the wisdom and the necessity of using to r best possible advantage such help as one has economized is by utilizing in which time may bc which the land is not in suitable conditions on worked, in preparing, in the barn the seed the lools, so that when the conditions sea and th Cavorable, everything may be in readiness iocome ing the work. The Western method may in ases, be adopted of using wider harrows and ultivators, one man driving three or four thus getting over a much larger acreage in a day By the use of new and improved labor-saving implements, such as the wide-cutting mower the hay tedder, the side-delivery rake, the hay looder, the horse fork, slings, or a rack lifter two mo and a boy may handle the crops of a farm with litte, if any, hard work, and with preater de spatch than under the old system of ihand work It may be objected that these things cost money This is true, but so does hired help and their board, and when, as is often the case it is of wory members of his family the farmer himself or heavy end of amily often having to take the ness or inefficiency of the hired man, which is liable to be the case with newcomers to the counIt may be worth consideration whether the principle of co-operation may not be adopted by neighbors in the purchase and ownership of some of the labor-saving implements mentioned, and in lightened and work, by which the labor may be able. Such exthe conditions made more comfortlave of fanche was common in the pioneer beneffit to all concernedtury, and was of great necessity seems to confront farmors, why same the same solution of the difficulty be brought into rvice?
absence ef dairying is made a specialty, in the woubte s a successtul milking machine, which is matle more and lean, dry walks to the stalls for the cows, which stables; well arranged Tree use of absorbents; the stable clean by the rided with wire nelting to keep out flies in sumobviate the carrying of milk used at the barn to back to the bain for the culuos the house and he milk may be sold and shipped, or sent to the abory, where such are in opmation, and thus the sections and on many farms this disposition o rom the railsial, the absence of factorn distanc other causes, but, the other sugrestions and many her methods of Saving of steps and of time may dopted whe forethonght and consideration be note pleasant, but will also make the conditions cents.

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## John weld, Manager

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for the market cannot be made profitable in com petition with the new lands of the West, the labor on the farm may be lightened by seeding a cultivating a smaller proportion of the land which, if kept in good heart by the growing of clover and the feeding of stock, would produce ing circumstances, to limit the number of exist grown to those actually needed for the feeding of the stock kept, which will lessen the amount of
labor required. By providing a silo for the storing of ensilage, which can be done at moderate cost, it would appear that the average farmer
might, if need be, limit his corn, which are reasonably sure, requiring comparatively little labor and having nearly all the clements necessary for successful and profitable
feeding. With the addition of reeding. With the addition of a plot of alfalfa need not be renewed in less than five to ten years, and a patch or two of rape for the pigs and lambs or young cattle, another cheap crop requiring lit-
tle work, and a few acres of mangels for the hoos and cows in winter, the bill of fare would be nearly complete, and that with a minimum of
labor required. We are loath to make any sulalabor required. We are loath to make any sug-
gestion that might tend $t_{0}$ reduce the area grown
crop is hand labor such a prime necescits.
These hints, however, are meant to be mercly suggestive, and do not by any momins cover all the
ground of the subfect of economizing fime and ground of the subject of economizisg time ind

## Canadian Transportation.

anadian enterprises, and tremendous expansion o in the growth of wheat and other agricultural products, transportation has become the problem of the hour. "The country requires that these products be transported, so that Canadian interests will be promoted. For the most part they are destined for Great Britain, the great food Of that mighty Empire, Canada forms an integral part. It is, therefore, a national as well as a commercial question, and must be dealt with upon that basis. The true policy of this country will leave the producer an adequate fair rates as his labor and soil fertility. They should be carried over Cunadian inland waters or railways to Canadian seaports, so that Canadian interests will this continent preserved in its integrity is the great natural highway to the Atlantic for the north half of the continent, large portions of which remain to be developet, both in Northern Quebec, Northern Ontario, and the Northwest and the vision of the statesman is that the spout must be sufficient for the hopper. The country is doubtful if if transportation policy, and it more promising opportunities for railway enferprise. Fresh transcontinental lines are being projected and various proposals made ior the development of canal, river and harbor improvements. Right here the Government of the country feels the need of taking sure and certain steps based upon expert knowledge; hence the idea the Transportation Commission appointed at Ottawa on April 6th, which is quite distinct from do with rates and the general which has to service of the country. The Transportation Com mission will deal with the extensions and improvements required in Canadian transportation facilities, terminal points, and so on. It consists of Sir William Van Horne, of Montreal ; Mr. Harold of Tory, of Quebec City; and Mr. John Bertram Horne ranks As our readers as anow, Sir Wm . Van way and transportation subjects. He has rail the stand that there is great need of improvemen in our facilities for handling trade, and has ref ferred particularly to the imperative necesis "enlarging the spout" of our transportation routes ; in other words, providing greater termina facilities on the St. Lawrence or at Maritina ports. Mr. Harold Kennedy, of Quehec, has business interests in that city. He has be specially identified with the Atlantic steamshin business, and is regarded as an authority ocean marine. He was appointed a member of the Quebec Harbor Commission by the present Government in 1896, and is one of the younger men who have been endeavoring most assiduously Co build up that part of the Dominion. Mr. John Bertram, as a practical business man engaged in and shipping interests represent the lake marine intimate knowledge of the needs of ommission. His merce and of the remedies to be applied will be of great value.
Montieal, and Mr. Rell of the W. X. Perrault, Trade, will be Secretaries of the Commission which it is expected will be called together with out delay to deal with the important problems that have called it into existence

That the horse is the farmer's beit friend will as such ; see that his harness fits; that he is work is over, that he has as and when his day's of resting in comfort as can well be given him. It will all be returned with interest to the con-

## The garden plot adds more to the comfort and

 portion of like armer which his kin than any other not already made provichon owns. If ybu haveAgricultural Tradivg Socioties. advanced very slowly among agriculturists. There are, however, several old-established association or the joint purchase of manures in England, an number of similar bodies scotland Kmong the English institutions of this class, on ciation of pumehasing ior the purpose rurandeed qe mares of its members ized on argan made a penses are thay the thering ex pence per acre on the land occupied by each member and by a fee of one shilling per ton on the goods ordered. All manures are analyzed free o within a certain area and derivered carriage iree distributed 6,400 tons of super this association members, and its accounts for that year to it that by that by the influence of the Lincolnshire Farmers siderably reduced and thanures has been consands of pounds have been saved by the members and by others connected with the cultivation land within the sphere of the association's opera tions.
Th
The task of organizing co-operative ass sciations by the Agricultural Organization Society faken up for the same purpose as the kindred sociounded Ireland. The objects, as stated in their reports with secure the co-operation " of all connected laborers, and whether as owners, occupiers or cultural co-operative societies formation of agrirequisites for the sale of produce, for arricultural crerlit, banking and insurance, and for all other ture '" Thisperation for the benefit of agriculing organizers to address on its work by sendadvice as to the proper meetings and to give the formation of local societies; by pursued in model rules for such local societies; and by mub lishing leaflets from time to time dealing with the local societies of agliated tural co-operation. The ization, some time ago numbered co-operative agricultural trading, including 24 joint-purchase associations. The Muskham Agricultural Society may association. This was an agricultural trading with 17 members, and a share in May, 1899, In 1900 the membership had increased to 38 , 16. the turnover amounted to £365. One of the first tears taken by the society was to purchase a bank on the jeint with money borrowed from a mittee. The scale of charges for of the commachine was fixed by the committee at the of the 4s. 6d. per acre, the society providirlg twine and The reso take charge of the machine and horses Society liguidated seasons' work was that the machine belongs to the members bank, and the themselves of the use of it at a nominal avai just sufficient to cover wear and tear. Some the agricultural trading societies are also able to by sinall farmers first-class bulls, boars and st or hiring of Tregaron Agricultural Society a smallions. The live body of 50 members, holding shares of to its business in manures up, has, in addition cured for its members, free of charge and seeds, scof a boar, which is hired out to nom-members at Among the affinater which is made of the Rrandsby Dairy in Yorkshire cream and creaty engaged in the sale of butter but also undertakes to supply then with members, fceding stuffs and nther farming requisites small warehouse was rented by this society from
the railway company, in which the manures cakes and other articles purchased in bulk are members as a return load for their caributed to have brought produce to the railway carts which purchasing in truck-loads and relieving the deale ing sinall sums of debts and the trouble of collectvidual buvers, this society has a number of inditain reduced quotations, by which every member halance sheet of the Brandshy purchase. The the half-year, to January 31st, 1901, showed turnover of $£ 1,728$, and a profit of showed a
allowing $£ 24$ for depreciation. after Organization societies affiliated to the $\Lambda$ gricultural dustrial and Provident Socistiered under the In-

## APRIL 15. 1903

THE FARMER'S ADVOCATE

## HORSES.

## Stick to Type.

that will confront many the mares is a proble:n the year. There is a growing consciousness that our horses are not what they ought to be, and everyone feels it his duty to assist in improve-
ment. One of the troubles in the past that there has not been sufficient past has been ligence exercised in mating. In many cases where a man has had road and heavy draft mares where have been bred to the same horse, and that often A horse of neither class. Such actions in many for the owners of the sire, or because of a small reduction in fee, secured by furnishing two or more mares. When these are the primary conaccidental incident. A knowledgress is only an ples of breeding, and an intuitive ability, whereby the results of particular matings are anticipated, are essential to the successful breeding of any The first step and particularly the horse.
horses is to have in mind a definite type or model to which we wish to attain; and this model should the best prices in the markets that are bringing found to be the big draft horse, weighing from 1,600 to 1,800 pounds; the stylish carriage horse, leggy fellow, that will get with a fairly heavy load. These are thery classes that are most asked for, and if the three horses could be classified under and if all of our heads, the price of horses would either of these the average price reported from not be $\$ 62.25$, Harkets last year. But the trouble is we horse ut of horses that do not belong to is we have a lass, although they are fairly serviceable uni nals.
Hav hind aving, then, one of the market classes in stallion that will produce a step is to select a tamp from the mares we a horse of the desired the difficult problem, but we heve stand. This is and we know what we want. The clased right, on hand is the most important class of mares inining which class of horse to produce in deterix in mind the law that "like produce. If we will appreciate the folly of trying to produc arriage horses from mares with to produce rosses of draft blood, and vice versa or three mares, or those that are low-set with onsidery weight, should be bred to Clydesda tallions ; the carriage or roadster class or Shire to a big Standard-bred horse or to one of the coach or carriage breeds of stallion. Following this rule will not insure positive success, but it is the safest plan, and the misfits fill the demand to expressers, vanners, family drivers, and cobs can't afford to breed for speed, nor average farme to produce a general purpose horse for farm work the markets should be the guide, and the general purpose horse or cob is about the cheapest horse
we have. After deciding to which class of horse we the particular sire to be used. Unfortunately, not all pure-bred stallions are good stock-getters, neither is the best looking horse always a good Sire. The Scotch breeders, knowing this fact, would be a long step toward improving all it breeds if many other stallions were subjected to the same treatment. However, because of their long lineage of carefuily selected ancestors, making them most prepotent, nothing but a pure-bred
sire should be used, and it should be known that he is registered in, an authorized studbook. With most breeders of the heavy class In wise will be the most essential factor to obtain. nepected to give the single mating can hardly be is better to give the desired result. In fact, it reeding the small, tidy mare of goond culardity by horse considerably heavier than herself, but not if the extremely weighty sort. These abrupt matings are often disappointing: a loose, leggy, clathy horse is too frequently the result. In all ally : there will be mork up to the ideal gradu-
montity of type and less Probility of reversion to previous inferior types When once the line of operations has been struck there should be no swerving from that line. Noth-
another. If the heavy mares do not produce
good foals by a certain mating, then try another
tallion stallion of the same class, rather than try another the most essential characteristics of the surcessful man who pins will go up and down, but the horses and regulates his supply to right sort of few regrets. To unon the right base, and will have is keen, and prices roue demand for good horse hour of opportunity to raise the standard of enduring basis. $\qquad$

## Bone Diseases of Horses' Legs.

SIDEBONE. - The posterior portion of the bone irregular quadrilateral cartilarmounted by an called the lateral cartilages. In the healthy foot they can be easily felt just under the skin fur mounting the heels. A conversion, of these carcondition is called sidebone takes place, and the the cartilages are quite elastic and yield readily to pressure, but resume their normal position at once on the pressure being removed. When disunyielding lose this character, become hard and and can he and also become considerably enlarged,
a breezy sunday at springlake farm, miof.
siderable long hair. This disease is usually obfore feet herse of the heavier breeds, and in the feet, and is arecting the hind horses. The usual couses ree with in light position and shoeing with may be caused by injuries as calkins, but it process of ossification is usually shas, etc. The inaccompanied by pain or lameness, but often is sometimes present and whens, but lameness o appear at any time, especially if the animal be vorked on hard roads. When appearing in the ind feet it seldom causes inconventen
TREATMENT.-When no lamenes is shown. reatment is not called for, as it is not possible o restore the parts to the normal condition When treatment is called for, it consists in counter-irritation, as blistering or firing and blistering. This will in many

## mons, while in others it fails Bonf

This joint, like the - The is a disease of the hock and may be said to have consists of many bones, formed by the lower end of the tone of the That and the uppermost bone of the hock is the thigh true hock ioint, and admits of extensise called the The articulations below this admit of imply gliding motion, and even this becomes slighter as we pass downwards; hence the motion existing in
the lower articulation, that surface of the inferior bones of the joint and the apper ends of the cannon hones, is very slight.
Bone spavin consists in inflammation Bone spavin consists in inflammation being set
up in the cancellated tissue of the bones
ing to the compact tissue and articular cartilage udate, which becomes and throwing out an ex uniting the bones involved inted into bone and oeathis process, a greater or locs pears on the joint, usually on the lower portio joint may front and inside, but any part of the mlargement may and as a consequence the some cases, particularly is involved, no enlargement is the true hock join called an occult, or blind, spavin, and as ais is the lameness is permanent and incurable. On the ther hand, it is not uncommon for a spavin of panied by lameness. The lameness being accomis usually characteristic. In the early bone spavin horse will usually stand sound, but if asked the sep over in the stall in the morning, or afte or asked to quiet for a variable length of time tions, he will go quite lame under similar condi he toe for a few stens. He will go lame for on ariable distance, a few steps or a few rods a all lameness disy or quickly getting better, unti ably go cound the same time, if he make misstep again. At toe against a stone, he is liable to sorke his Ior a few steps. When the disease becomes more advanced he will probably stand lame; that is, he continue for a and hip will be noticed to becomeles of his leg want of function, but even in this stage lomeness will in most cases disappear on exercise. The cure probability of a depend being effected articulations the upon the size of the enisrement. the same as for ringbone. ln young sometimes effect a cure, but in most cases it saves time, 0 fire and expense first. As with ringbone, no treatment will remove the enthe lameness when pears a cur to be effected. The bone diseases of the hind leg from $t h$ hock to the foot are below the kno $s$ The predisposi tion to bone diseases is in most cases either to peculiari ties of conformatio or congenital pre disposition to ossif either of which is transmitted to the prose eny by either sire or dam, hence the prog-
sity or advisability of breeding to parents

## Judging Horses by Weight.

According to English ideas, says the Farmer nd Stockbreeder, the judging of a horse ry his here is always the inctawback. By doing so $h$ horse in order to increase his live up and fatte seless fat, however, can only be warmfut. Suc nimal intended for breeding or work. It is th hat corn, the amount of bone and the muscle horse possesses weight and You cannot turn a small horse dance or not weightiness, into a hig and heave, deficient in

## Colic: Prevention and Cure.

re sudden season, when thousands of farm horses prairie, and are being introduced to hen the ration, cases of colic will not be uncommon. With spoonful that are subject to this malady, a tableso tone up the digestivech night in the oats, will ing may be carried on with that heavy feedAvoid, if possible, the necessity of giving safety. drafts of water immerliately after feeding. When an animal has fallen a victim to colic, administer
as quickly as possible lows: Laudanum, fluid extract of bellad as fol-half-pintrits nitre, 1 $1 \frac{1}{3}$ fluid ounces each inna, and half-pint of water. $1 \frac{1}{2}$ fluid ounces each, in one

Perfect and Imperfect Hackney Action. iront and turns its toes in can never be expected
iommation. Many a notable animal, which has
ligured prominently in prize-lists, has suffered
from this physical defect, which has just been sufflight in the show-ring. Conversely the animal which turns its toes out is invariably open at the knees in his action, and that is a very ungainly
and reprehensible characteristic.

cars probably it

and the propulsive gencral rule there are more animals defective in the hock than in their fore action, and many it promising youngster has been relegated to the in this, the primary feature of a harness horse. The reason why so much importance has been attached to good action, on the part of the breeder,
is that good-looking horses with no action are a is that good-looking horses with no action are a
drug in the market, while a mean horse with no drug in the market, while a mean horse with no
showy qualities beyond his action can always find a purchaser at a good price. It is action that
sells. A hunting man, of course, regards true sells. A hunting man, of course, regards true
Hackney action as a thing to be avoided, but Hackney action as a thing to be avoided, but
then the characteristics and the purpose of the then the characteristics and the purpose of the
two types of animals are so much at variance that his views have been moulded in a different One of the commonest defects of Hackney action is that of going wide. Apart alto ether
from its unsightliness, it is evident that the ani-

nalw which does not keep its hocks close together
has neither the propulsive power nor are his legs has neither the propulsive power nor are his legs
calculated to stand the wear and tear of oidinary work for a lengthened period. Where this weak-
ness is very pronounced, it is frequently the result of internal trouble. Another defect which is
sometimes seen is what is known as the colv hock; it is most unsightly when the as the cowal is in
a standing position. It is not, however. serious defect as the open hock, yet it very mate-
rially lowers the animal's chances in rially lowers the animal's chances in good com-
pany. The artist has sketched one or two therpositions, and by a simple diagram shows how tained. The old tyne of Hackney way he ascer-
straight in the hock, and this defect is not infrequently in so me of the older show aniwhed hy a better angled and more wearing type "i

the Argentine, and a large proportion of those sold
Birmingham went the same way State of Uruguay is taking Herefords nelghboring ment of these superb cattle left London lately for
Uruguay. The country is opening up the future of British stock-owners is unusually bright. taking a practical form country are more and more taking a practical form. Two interesting experiments to find out the most profitable oat. Four new was thes, Abundance, Newmarket, Goldfinder and Waverley came out best. This experiment was carried out at was conducted at Holmes An experiment on potatoes been 'going on for seven seasons, the cheshire. It has the best disease-resisting variety amongst new aspirants to popular favor. The simple fact about potatoes her is that the best soon give way, and the new varieties most of them succumb, Fisting the blight. Eventually, constant vigllance, and any new sort is sure, need for

 $\qquad$ \begin{tabular}{l}
sort <br>

- <br>
\hline
\end{tabular}

The Veterinarian's Reading. Matier. I have discussed the educational work ${ }^{0}$ before graduation, and at this a veterinary degree to show the advantages of continued study on the for the practising . The sources of information or the practising veterinarian are: 1 , professociation meetings; 4, agricultural veurnals and , postgraduate courses. four are recent graduate sources one, three and four are especially useful, two and five become nately the professional journals practice. Unfortulation they should have, and the loss falls the heavier on the profession at large, for the indifidual suffers by his neglect to read at least one are at once seen when the advantages to a loss rived from subscribing and reading a professional journal are enumerated. It may be reiterated that the graduate who thinks his studying days himself only: sonner or later the public deceiving out, and his income, if not suffering a decreas im the result, will certainly not increase. Five to ten dollars invested annually in the right kind of reading matter is money well invested for the brings to the busy practitioner news ideas in al concise form; describes new instruments. discusses the newer drugs: and, if properly conducted, gives fair and honest criticism on the newer articles and
methods, by men qualified to make such critiInethods, by men qualified to make such criti-
cisms. (b) The professional through which reports of cases reach the practitioner, who may, in many cases, from the prerusal of such reports, gain informafar from one issue worth (c) Reviews of books, whether of new editions or works. If the reviews are made by exyeits who are fair-minded
tho withhold tho withhold a recominendathon unless a book deserves
it, the jourual will save its
readers many doll readers many dollars. Unfortunately, there is a tend-
ency in some quaiters to ency in some quaiters to able review to all and kundry, thus encouraging the tre mere compilations, or isce the aborted, undeveloped Weas of the authors. in e to depend on the professional fournal for pointers in their look investments, and have a
right to demand that only (1. recommended. The mere Wesentation of an author's Thy or promise of advertiswinwer in any way: few men hings, even if such are the
hinth; here, however, the "inciple "the greatest good ould and must obtain! fourth place, the profesonal journal is a good rews on proressional and topics To be a success-
practitioner, one must he
man of the world a n a
he practitioner's sug


GIRTON ENSIGN 5iz3 (18040)
earlier, and both cow and calf will suffel
large proportion of dogie cattle the large importation of this class of stock withir the past two or three years, will not tend to re-
duce the proportion of losses. The losses will not reach any very serious proportions, but on the
whole the cattle will whole the cattle will suffer from the March
weather.

## A New Sheep Dipper.

The ordinary process of dipping sheep by in in the case of tank filled with dip is clumsy, and mals. Mr w. WaniHome Farm, Warlay, the tenant of Lynturk breeding ewes, has introduced a mechanical dipper, the invention of Mr. Alexander Reid, and the when several was tried for the first time recently, ing were present The oblong tank for holding the dip, and an structed of perforated iron, into which the, conis put, and which is lowered by means of a rope and crank. To facilitate this operation, a counterbalancing weight is pro-
vided. This weight rises and falls in standing at the side of the dip. The cask contains a supply of dip from which to replenish the tank, and the weight rising and falling in it serves
to keep the materials always in solution each end of the cage is a door, which automat ically opens and shuts as the cage rises and falls. The invention is a most ingenious one. tho men can work it, one at the crank and the be dipped several at a time. The cage jumbs can sheep, and does not give it room to struggle, and the animal can be kept in the dip as long as is cosired. The cage can be lowered to any depth, so that the head may be left dry, if so desired, or the whole body may be immersed. The apparaan experiment, a record was kept, and it was found possible to dip twenty-one sheep in six minutes. The dipping was thorough, every part of the fleece being well soaked, and the whole ing about to the sheep. It should be added that ewes dipped were due to lamb in about a fortnight. This machine is
made with the avowed object of meeting the case of sheep that have to be dipped when heavy in ordinary precaution with perfect safety up with lambing. The dip runs into the bath as required, and has not to be touched with the hands, thus making the work clean and safe for the

## Weight and Measure in Fepding

n advising the use of wheat bran in place ther wheat feeds, one is surento run un acainst a man who says he can get more milk out of middlings and the bran that is full of flour rather than coarse bran. "Analysis doesn't trouble him ! He is after results." And the same'man meal as wheat bran. When questioned it corn found that this farmer never weighs his milk; he amount of guessing in his feeding ask equal many pounds of the different grains he feeds hi cow, and he is up the stump. He feeds b many like him. They use a two or four quart measure or basin when feeding, and when using different feeds they always compare measure, not The following table is an eye-opener to those weight of one quart.

Coarse wheat middlings
Wheat, mixed feed
Cotton-seed meal
Corn meal .......
When we examine the table it is seen why the farmer who feds by measure gets such good re-
sults from fine floury middlings, and says coarse

Substitute for Dehorming
The British Board of Agriculture has issued ent the Clip growth of horns moiste calf is from two to five when rasten the end of a stick of caustic potash with bud and rub the tip of each horn firmly with the a slight about a quarter of a minute, or until of the inpression has been made on the cente this way from two to four times at ineated in minutes. If during the interval of five min utes after one or more applications a little blood be necessary center of the horn it will then only with the potash anothory slight rubling The following
served :
The operation is best performed when the calf tempted after the ninih, and should not be at Compted after the ninth day.
Caustic potash can be obtained from any druggist in the form of a white stick. When not in use, it should be kept in a stoppered glass bottle
in a dry place, as it rapidly deteriorates when One man should hold the calf while an assist Ont uses the causti
Roll a piece of
the end of the sticl infoil or brown paper round held by the fingers, so as not to injure the hand of the operator. Do not moisten the stick too much, or the caustic may spread to the skin around the hor the calf from getting wot for some reason, keef operation.
Be careful to and not round the side of it. center of the hoin Caustic potash is poisonous, and must, there Tore, be kept in

## Hog Cholera.

I have from time to time seen a good deal o the fairs several times, but in my show herd at enough never to have gotten it spread in my home cure for it, although is that there is no certain get well, and in seems to be all right, and at medical treatment same treatment seems to fail entirely to do the good. it is now known for a certainty that the very contagious from a germ, and it is, therefore, think almost wholls. one animal to another; I mal swallowing the germ. Therefore the aniportant to look out for the Therefore, it is imgerms, and see that no healthy herds are on brounds below the sick ones, where the germs can carried by persons or animals germs can, also, be sick to the well. I do not believe the disease is ever contracted, any distance at least, by inhaling the germs in the atmosphere. N. H. GENTRY.

## Range Steer Experiment.

A special letter to the " Farmer's Advocate appearance is to be seen in the steers in genera Northwest Territory that are being experimente Agricultural Cone which are being fed at the are now receiving each day 120 pounds turnips 20 pounds chop and 70 pounds pounds turnips, and 55 pounds 90 pounds turnips, 16 pounds meal Hee ten being fed at Major Hoods', five are ciose confinement. From not appear to enjoy such it probably will be the last of May or June before

## Canadian Investments

urticle, showing the propershes an interesting making in the way of investment in has beel prises and increases in old ones during the pas
four or five vearc boom, hoyever, the Giobe incidentally the mining the fortunes that were not made, millions lecing thrust into the earth in the endeavor. Summar
ized. the invostments apnear as follows. Banks, incurance, trusts ............. \$ 22.560 .000
2.560 .000
3.1510 .000
$\qquad$
nat onch ti..

APRIL 15, 1903
great field of nature which lies around hin
Hailey says : "It is the purpose of the inculcate the habit of observing, to surgechool to that has distinct application to the conditions in ountry life; to aid in home-making and to in curage a general movement towards the soil.' mall rural school, but present wend done, have above stated but present conditions
My next picture shows a large plot surrounded modious and tasteful building. I see is a com these in the country at present
o the future, I see many. i see as I look in school garden I watering their plants, and tilling the ground see bird boxes here and there among thound. No longer do the children go wading through trees slush and snow and rain, for they are conveyed comfortably in vans, which pass their very doors are deposited at the schoolhouse with miles, and There is very little irregularity in attenda feet see the small "tots" and large boys and girls 16 and 18 along with them. Instead of teacher with 25 pupils, I now see five or six teachers with nearly 200 pupils, and the teachers
in charge of graded classes. There is a ioyous-
ness and an ness and an enthusiasm throughout the school
which is catching. The teachers tak interest in the school; the pupils take a greater rapid. in their work, and advancement is more the study of common plants and trees and the birds and common animals which are to be found everywhere in the country. The pupils are taunght to observe and to study these, and to know their habits; for these are to be their life-long coma teacher with a class of girls farm. I see also ing clothes, or preparing some simple and mendthey will be called upon to do this work in, for after-life on the farms. I see another teacher and the saw, for they will the plane, the hammer their after-life on the farms of minerals, rocks, fruits, insects and weeds which the pupils have made. I see a pood assortment of up-to-date maps and charts, and frames containing clay for modelling. I see also a good teacher and pupils. recall my impressions of my visit to Ohio when I truthfully say, with regard to my visit, that I went, I saw, I was convinced. I was convinced vantage over the average rural as a decided adconvinced that the possibilities of the Consol dated School were far greater than those of the ural school. I was convinced that it was posdistricts as fave conditions of school-life in rural roung as are the conditions in our best town the towns and cities. It is undoubtedly true that towns and cities, for the schools of the latter are as a preparatio the edncation of the ohildren serve is also true that our country schools are scarcoly attempting to place their pupils in sympathetic elationship with the life ahout them. They have never seriously tried to cultivate the higher nature of the pupil, nor to give him knowledge of his totally neglected, and there has been no attempt to awaken what C. B. Scott calls "a svmpahetic interest in and love for all animal life, to clp the boys and girls gain some realization and mpreciation of the unity of nature It seems strange that for these many year but few attempts have been made to introduce the study of nature into our rural schools.
It is not my purpose to describe in detail or Give statistics of the splendid attendance at the three facts which should be emphasized.
In the first place, consolidation will provill rreat teachers. Ths, to my mind, is in itself recially, the average tenure of a teacher is ex teacher short; and it is impossible for anv good hentum of his influence to exercise the full moIn the second place, consolidation will bring athout a larger daily attendance : a larger enrollment, and greater punctuality. These features emphasized. As I have already staici,
lasses are not pmall and reduced to half cizo
woxses to impossible for the teacher to the erent
work, or for the pupils to make progr, Weer daily attendance is also of Errat innor


THE FARMER'S ADVOCATE

before the judges, dublin horse khow.
among the pupils a greater interest in thin doubtedly this is the work of parents and teach tudies, and progress is more rapid.
In the third bring all the children the Consoliuated School will eigi.teen. Under the old systeme ages of six and is reach small, a boy or girl, after the are at is reached, has no inclination to return to of 10 In the Consolidated School, however, it is quite these, and in this a class for pupils such as study for two or three additional the period of during these additional years that applicntion is agricultural conditions could be made. All their studies could hate an agricultural direction, if the -during these few eare to direct them. It is most headway alloner practical student makes quite practicable to carry into the rural schoos the first two or three years of our high schools instead children to compelling the farmer to take his stopping the rush from the farms to thill aid for there will no longer be fhe incentive cities, town to secure good educational facilities. Ontario $\overline{\text { Agricultural College. }}$.

Supplementary Reading for Boys and Girls.
who is born into home where music and the a home where good books, good privileges are the greatest educational opportuni ties." Do we always consider carefully the influence of the conversations which children hear, the they which they see and books or papers which they read
concerning a ago I was talking to a gentleman published, and he said which had recently bee don't suppose I would pet any sool should. I have got so that I cannot read a book and remember anything good that it contains When I was a schoolboy I read dime novels an all sorts of trash, in such a way that I cannot fix my mind on anything instructive. I wish reading." This was warn boys against such hough he had no suecial inter a man whe saw from his own experience the evil effect of discriminate reading. teaching a child to read, but of the importance o a question: Have we not in mind the mere and their meanings? Do we ever think er power which we are giving may be the means of "Put into his hands plenty of reading matter any t. As well wav (.) suitable." Never beliew proison and liot him. unconscions him the nat and $2-2-5$

## The Pea Weevil.

## ancert is now at hand when farmers will

 minding them that the pea weevil, the worst be controlled by simple remedies, and that now is the time to apply them. The pea weevil mostly passes the winter inside the sced peas, and is with hese latter carried to the fields, where, on coming season. Although it is twe me the weevils leave the seed peas in the autumn the pass the winter around sheds, barns large number remain in the peas, and unless these re treated the beetles are carried with them alive o the fields. There are two simple treatments adopt these an enormous amount of good would whole country would be the consequence. $O$ wing less of the pea weovils the last year, there were maturity and weens man usual which came to utumn. The present season, then, is particular y propitious to , get good results. farmers most earnestly the advisability of not sowing a single seed pea which has not beentreated in some way to destroy the contained weevils. Most of our seedsmen, kno contained this remedy does what is claimed for it (namely kills 'all the weevils), do already treat their seed, and 1 feel sure that all will do so if farmers will insist on being supplied with in this respect, in which and weevils have been killed. with seed in which the immediately after they are ripe enough to thresh are little injured by the weevil, but when the the peas, they have by come to maturity inside the peas, they have by that time eaten so much value of uninjured seed. The statement is frequently made that weevil-injured peas are just as good for seed as others. This, however, is not
only absolutely false will see who thinks the matter out. experiment, repeated over and orer again I fin that only about onessixth of weevil-injured peas will grow, and this will show how foolish a farma good crop from it. The two practicall remedies which I have referred to ahove nre gation of the seed with bisulphide of carbon. When properly done. either in specially constructed
huildings buildings or in any tight bin, every weevil is sure for forty-eight hours to the vapor of bisulphide of carbon, used in the proportion of one pound weight of the chemical to every one hundred bushels of seed, or, in smaller quantities, one ounce of
bisulphide to every hundred pounds bisulphide to every hundred pounds of seed. The
bisulphide of carbon should be of the very best quality. This will vaporize without any residue. This chemical is very inflammable ; therefore, the work must be done at a distance from all buildtrouble with insurance companics accidents any kind and no smoking must be allowed when small ${ }^{\circ}$ quantities of seed, I For the treatment of ordinary coal-oil barrel is very convenient. This pound hold about five bushels, or three hundre ounces of bisulphide placed on theated with thre in an open saucer, from which it will vaporize in the air, will run down through heing heavier than must be taken to close up the ton the reas. Cai is best done with a cap made specially for the purpose, but may also be done with fine sacks laid moothy on the top, over two or $t^{\prime}$ ree thicknesse considerable weight on them to hold the covering remedy which has been used by many farmers with great satisfaction, is to drench the seect with o every five bushels of peas. The coal oil $i$ sprinhled over the peas. which are keppt constantly
shovelled over and over until all laive a conitini, of oil. This should be tone ashort time hafors omewhe the germination of the semed.
nFED FOR ACMIOS. The injury hy the peat were it in ontario, at ion dollars a year. The teap worts of of onn of al Iso for export. Not ofly for fatteninge stock, int
has not been treated should be sown. The crop the harvested as soon as possible, as unucl The peas should be threshed and treated at once Peas required for seed should to the seed buyers. Peas required for seed should be bagged up tightape of any weevils which might emerge in the autumn. As soon as the grain is dry enough hould be ground to prevent it from becoming musty, the new grain may be mixed with an equal be allowed to run over the fields to pick shourd peas which may have been scattered in harvesting, dit if the peas were harvested a little green, few
Ottawa.

> en shelled out in the fiel JAMES FLETCHER,

## Conserving 0ur Forests

The results of overclearing in the older por-
tions of our Province are becoming more more apparent every year. it is also quite true of their wood lot until it is is entirely gone value becoming more generally known that the snow goes off with a rush in the spring freshets, which swell the invers the point of destruction; that neverfailing now go dry for monthe in merly season ; that injurious insects are on the dry crease and insectivorous birds are on the decrease in former yeall is not so evenly distributed as do more and more damno and electric storms are drying up, and the timber dying; and that the sources of hard woods for merchantable purposes are fast passing away. Is it not strange that wood lots andis, only a few farmers fence theit age the second growth and prover to encour getting in, which accounts for many of the grass hard woods dying at the top. There are thou sands of acres which never should have been cleared in the first place, such as lands breken by are hillsides too steep to be cultivated and meiv creek and lake banks which would have been far
better to have been left in woods rather thon to better to have been lelt in woods rather than to a good wood lut
good an investment as carefully looked after is as been proposed that a farmer need have. It has his stock from the wood lot should have such land exemptrom taxation. I believe that it would necessary in a short time at may be do some replanting of forest trees parts the apple tree pays well, and is deservedly popular, and large areas are being planted ever on our climatic condition if elll over the could havy we had wind-breaks a couple of rods wide onnt west and north sides of our farms? Such rows nut-bearing trees, and those valuable for their wood. For a number of years it could be culltia tree to grow to become profitable. Secing it requires so long, what is done should be dond trees should we Along our roadsides suitalld they might serve for fence posts in due time as m. Setting out suitable tracecer as time woes great help in the future. Should not the Ge anil be gelting ready to supply all who will The my opilion this is a glacion whe le urged on the public. Pampllets containing "ducate the pul)
Prince Fen

## 

## Weight of a Bushel

## According to act of Parliament, the weight of

lime, eighty pounds
inve, filty-six pound
Barley, fort --cindts.
Malt, Thirty-six pounds.
Oits, thinty-four pounds
Clower sow, wixty pounds. ..... veight pound

Experience with Tread Power

## Sir;-I have been a subscriber ald

 dvocate" for nine or ten years and her of $t$ to be the best farmers' paper in Canada are never writter" anything for the "Advocate," xperienought I would write a little about my enest whe a tread power, which might ke of The some of my brother farmers. hree-horse treat ago last September I purchased a e best inead power, and can truly say it was hinery. I use it almost made in farm ma and have it placed in a building outside at end of my horse stable, with a door through the , and run a belt from tread power to a pulley line shaft, which runs crosswise of stables, thongh feed room, with pulleys attached opporinding machine I wish to run. I use it for Water, running cream separator, fanning mill and wood saw. I use from one to three horses, according to the work being done; sometimes runming two and three machines at once; so you see get some good out or my horses in winter In sume I would have but little for them to do. Jersey huli are working, I put on just the place to exercise him and keep him it is When you want to use the power, you have no horses to harness and hitch. I just take halters power loose. As soon as the animals step int it you are ready for business; just take off the it gives a uniform speed that I can stop the horses from it so arranged using by the use of a rope running through small think a tread power is hard on horses people perience is that you can make it so if you wish but it is not necessary to do so ; it all depends The way elevation and speed at which you run it plowing, and often much easier on horses than sary to work them wery long it is not neces can do a little every day, if you wish, and hardly give them the necessary exercise they require: it spring work to keep them muscled up for their be operated in the barn or shelter so that it can old or snowy weather will not prevent the farm-r from using his machinery. N. STOUFFEi?.
York Co., Ont.

## Test Seed Corn

 have occasion to buy seed to all those who will ing or for easilage purposes, this spring, and even vell to test a satred their own seed corn will do hat a very lareo porcentage of My opinion is his country will not arowe of the seed corn in sixty-five fer cent., and plenty not even that. I shores af inend's house the oother day, on the (Yellow Flint) I Neorn helled thein selected about a dozen ears, grains, and the test showed only sixty-five per Query--lif ore dozen carefully-selected ears only ould the vitality be if the whole per cent., what ret licesern busked thet lass corn crib, or barn. The wet fall and count for the low vitality. Farmers, test your honw that it has been tested and the vitality cit enarantre Whis: Thatest andhod of testing sead corn is then coppit mot 1 oos grains of corn, cover with "on or three thichnesses of the same flannel, keep I is in "ham water, but not too moist. Set there. "Th" whom, or hack of the kitchen an. Tins. an.
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## APRIL 15, 1903

## Conquest of Bindweed


#### Abstract

? ng bindweed-wild morniner gloryce in combat that this, the very hardest weed to kill, infests it might be of interest to 1 have thought that ou an account of my battles with it. the farm, thouth it ago that it was first seen on some time, as the patch diameter and very strong about twenty feet in that year, and not knowing much about the weed then, I thought that it could, with care the kelled cultivation as the pars particular spot got the same tion, was carefully hot the hield, and, in addiand always once unti, sowthes trice a week, sult was discouraging the ceased. The rethinning or weakening of the was no perceptible following, acting on the advice of a neightor: manure to a depth of three feet was piled all wasteful of the manure, but it a year. It was completely About three years after that, I found among two to twenty plants each of lindweed, of from experience, I concluded that the ho warmer and decided to try the spade. I dug up the plants to a depth of a foot and it half, carefully following the roots and picking them out clean, though never in any case getting to the very end of them. This operation did not take long, as repeated from tivo to four each plot, and was success in each case. The greatest number


 diggings was required where the plants were most. twice digging finished them. were but two plants, successiul experience two or three times since then, forts to sene rots are exhausted by repeated efforts to send shoots from such a depth to the Hace years ago, having moved to another bargained for in the shap of more than was bindweed on a plot of ground three tense growth of five rods in length. Nerther of the methods previously practiced seemed to be practicable inthis case. In repeated plowinns his case. In repeated plowings I had no faith as a neighbor had for years tried this means of
subduing the weed without succeeding. Ideler
 be fought, hopes were not high; certainly theo were none or killing it in one season. During the with a liberal margin, was cultivated and the plot, inches deep every time the plants began to three through. In the growing season this was about gathered so quickly on the cultivator teeth that handruls sore pulled off at each turning and de-
her stroyed. After a litule they became more scarce, and, besides, it was seen that neither roots nor
shoots above three inches below the surface gave any trouble by taking fresh root. Not much lessaifter which there was noticeable until August, iollowing spring the patch seemed about one-third fifieth as numerous as the vear wede andous oult oneThteth as numerous as the year previous, Culti-
Cation as before was pursued until early fall, When the weeds got so scarce that it was quicker Oinly about a dozen or twenty appearing at time. During the fall they were dug four or five
itmes. 1 do not think they are exterminated, but they are certainly sickenet. Are exterminated, but welled to finish them. ${ }^{\text {In }}$ dill be ail that will be That most of the plants were not merely scotchell, With killed, was abundant, in the numberless deat years in a lawn without ut terly killow in ind the almost hopeless task of clearing it out of tances where success was sectured with giving in chices where success was secured. Two or three
ans from what has been said may not be t of place:
First, bind weed is a hard weed to kill. Second, to have the fields in rotation in hoed Pives an excellent opportinity to discover Whished as to be bevond control. Whers feel liopelesses of now exist that conld he Hed if cone alotent in the rist that way tomat the


THE FARMER'S ADVOCATE
su: Smut
grain cas been clearly demonstrated that smut in do not believe this, and claim. Many people pickling their, seed, and used every other precau To some the practice of only to be disappointed significance thactice of pickling seed has no more cure. But the fact is, smut is a disease of wart


President Territorial Dairymen's, alta.
Grain, and unless the seed is protected or disin breaking out. The infectins disease is a spore, and bears media in the smut lation to the disease as seed much the same re seed. These spores are always present with the attached where smut previously existed having time or afternselves to the kernels at threshing plant berincrwas. Then when the young grain sends out its haustoria (sap-suckine germinates and is then dies in cone, and it dies just as the seed wheat ism, continues and by the time the grain is growing grain, completely at the mercy of the smut parasite,
peras copper sulphate that is used, and not peras, as is too frequently the case, with disapsolution. Dissolvo wooden vessels to hold the phate in three gallons of hot water, copper sulhost ten bushels of wheat. This, of course is applied by ing can, turning the seed fequently pump or watermay be immersed in the liquid by, or the grain in a gunny sack. For oats and barley, while the copper sulphate is good, the formalin treatment formalin in ten easily applied. Nine ounces of of seed, has been found quite satisfactory bushels solution may be sprayed on, the seed lying in sinall heaps on the floor, and being turned fre quently, so that some of the liquid will come in
contact with each grain

Dangerous Crossings
Sir,-Considerable interest has recently teen the condition of will result in or chere le, sheep and other live statection to cat right. The Government has aco. This is all he rights of the form afte tion of his stock.
How is it not time we had begun to consider sheep ?", then, is a man of more value than a sheep ?"' What about the protection of human
life? Are our railway crossings of them are not. We frequently hear of Many places to cross, because you cannot see the train until it is right onto you." The writer has personal knowledge of many that are decidedly dangerous. All over the country they are to be found. Here in the Niagara Peninsula, where so of speed, there ate re regular deathe many places on the road which ral there is a th-traps. On the Michigan Cenrack On the Wabar or double Central the trains are very \& B. and Michigan and express trains of ten running at sixt passenger ral the win a few miles on the Michigan Cen obscured by bushee crossings where the view is there are many places where and on all the lines see the train until within a very short pissible to the track. A person in attempting to cross of they say, but whe road has to "use his eyes," as then to take his chances view is obscured he has ing in opposite direction from incoming is blow-

> omitlos poores of smut spores in the head of the
Fain.
anowing the lifehistory of the smut, we fistrosed by contact with conper sulphate are everybody none too good. As for the whistle sometimes knows that sometimes it blows and have been reported, but somebody narrow escapes some day, and it is time the attention of the dovstepsent was called to the necessity of taking steps to protect human life at these dangerous Doubtless the safest method is to have a man stationed at every crossing, as is the case in some
countries; but that is scarcely necessary days of invention. A large bell at a crossing which a train would set in motion at a certain distance from the crossing, would be sufficient for ployed, as on Michigan Central it system is emit should be an easy matter to lower bars each side of the track while train is approaching The lear the view can be done to insure safety is to be seen. The man who has trained himel can use eyes, whip and ears all at samed himself to paratively safe, but anyone is liable to get caught when the view is olscured and the train is bearing along at the rapid rate of fifty or sixty miles the road look out for himself, whatever the cond tions, is unworthy of any community, country or


## Naming the Farm

homestead a name, by which it mave of giving the siturd in the district or Province in which disbred stock have taken farmers who are breeding purethere is nave taken advantage of this idea, and special efforts in producing high-clas are making to have their premises appear homelike ucts or kirls to likewise. It will influence the boys and to take hink more of home, and will lead them beautiful. It tesinterest in making it appear no harm, but will rather tend toward certainly do no harm, but will rather tend toward making the Iuable

Convenient and Inexpensive Farmhous publish some plan of a simple, convenient farm substantial, youl at as a plail cost as possible. I
would like it arranged for a furnace in basement would like it arranged for a furnace in basement;
one set of stairs, one sitting-room, dining-room, kitchen, pantry, bathroom, and five bedrooms.
would prefer the bathroom to I think the water can be got to it more easily, also less danger from frost. SUBSCRIBER.

The above is but one of several requests re lars, etc. Instead of giving a specific, answer to the above inquirer, we have prepared a plan that we believe will be found suitable for many of our is for a frame house 22 feet by The plan given summer kitchen or weodshed 10 feet by feet at the rear. Of course, the plan could be enlarged or changed to suit individual circumstances, and as much ornamentation put on extra as desired. item, it is foolishness to build a such a large is absolutely necessary. A brief description of
the plan may be helpful. The front dor into a hall, from which open the parlor and the kitchen. The front stairway starts in the corner
to the left of the entrance. About six round the bend leads up to the landing, with steps straight stair from there to upper hall. A back way landing as the front stap to the same halfgoes down from kitchen between the hall door and in the house, with a 6x6 pantry off one corner nearest stove and sink. It may be used for din-ing-room in summer while the cooking stove is in
the summer kitchen. The kitchen side back wall, so that when outer shed is used for a suminer kitchen the same chimney can be used room in winter, and back be used for diningsummer, and might be connected or bedroom in by large folding doors. Upstairs there could four bedrooms, a small sitting-room at head be stairs, which might open into balcony over the veranda, when that useful and ornamental addi-
tion was put on for airing but on. A balcony is very serviceable ing them up and down stairs. At end of callyplan shows a storeroom, or bathroom, if such the comfort can be provided. In winter, the kitchen before entering the chimney which is this room the corner of room. In the cellar a ghown in iron cistern could be placed under the kitchen sink, where a small pitcher pump could be placed.
With a furnace to partition off a portion for would be necessary and roots, and another for milk, butter, preserves etc., as the furnace is liable to keep the cellar toos warm, and necessarily gives rise to considerable dust. The furnace should be placed about the center of the building. For safety, the furnace
chimney should be carried down to the cell and the connection made direct from the furnoo but this plan wastes a great deal of heat, and we
could take the furnace pipe up through a corner of the front room and into the front bedroom,
where it where it would enter the chimney. There are stove for burning three-foot wood can be used for a furnace by enclosing it in a brick chamber, from through tin pipes to house. To reach the registers on the upper floor the tin pipes are made to thit
in the wall between the studding. The with fresh air (cold air). be taken from outside and ant pipe may the floor of one down-stairs room, en-
tering at the bottom of the furnace air chamber, the hot air pipes emnerging
from the top of chamber. Of course there must be a proper system of check
drafts in order to control every pipe.
When a cellar is wanted and nace is to be used, it is advisable too put th
foundation down on the clay, esperially so inf Specifications called for in such a plan a
above, here illustrated, would be as follows : poo above, here illustrated, would be as follows: Po
girders, 1 piece $6 \times 6$ inches by 16 feet, and 1 riec
$6 \times 6$ inches by 14 feet: joisis for two flowe $\frac{\text { pieces } 2 \times 8 \text { inches by }}{72 \text { rieces } 2 \times 4 \text { inches }}$ pieces "x 4 inches by 16 feet; 4 sinn feet shiplan
2,300 feet siding : 10000 , flowring : 1 ,ong fent common hoards for frame and cornice: 2, :8m reer sidme. Nta, if hardes wall, atal atow ram … oak mosis in collat to


## RIL 15, 1903

Dairy Instructors ${ }^{9}$ Course
Under the new system of instruction for chees of by the Hon. John Dryden, Minister of Agpriculture, all the Instructors employed by the Dairy-
men's Association are required to spend a short men's Association are required to spend a short
term at one of the Dairy Schools before going pose of securing uniform metheds for the purty all men who are appointed to this responsible position. In the past each Instructor taught that which seemed right in his own eves. The course for the Western Instructors began at the Dairy
School in connection with the Ontario College, on March 31st, and continued until April 10th. The course was also open to those who wish to qualify themselves for the work. Some
fifteen students have registered. fifteen students have registered. This does not
include Messrs. Barr and McFeeter staff, who are also engaged as Instructors for 1903 , the former as superintendent. It is hoped by this plan to bring the benefits of the Dairy ery in Western Ontario, in factory and creamcourse embraces lectures and practical years. The course embraces lectures and practical work in
cheese and butter making, cheese and butter storing, milk-testing, dairy chemistry and dairy bacteriology.
Ontario Agricultural College. H. H. DEAN

To Whom It May Concern. ber particularly this season is enjoined to remem be thoroughly cooled before it will be received for shipment to the Old Country in cold storage. Fo the benefit of the dairy industry, the Government
furnished plans of suitable cold-storage plants gave small grants of money to those using such cold storage; provided cold storage on using such
and have exerted consid and have exerted considerable effort to place our spires, however, that dishonest practices have been operating during the past season. Some dairy up to the letter of the law. They have put their butter in cold storage before forwarding it t Montreal for shipment in cold storage, but the time in which they kept it in storage was so the package. A thermometer in the hands of inspector at Montreal tells the tale of short stor age, and so those sending forward butter so
treated will be closely watched this summer, and such butter will not go in the regular cold stor age chamber, but will just take its chances with butter that has no claim to the cold storage. Such action is not only just, but is necessary
o protect those who thoroughly cool their prod io protect those who thoroughly cool their prodature of warm butter to a certain degree, but is simply a device to keep perishable goods at a low temperature during passage. A cold storage
plant on board ship, sufficient to reduce the emperature of butter he wholly unnecessary if butter is thoroughly ooled as soon as it is placed in packages.
Some shippers claim that their varmed up in transportation from the sutter is he seaport, but when the thermometer indicates a higher temperature on the inside of the package he insid the surface, it is at once evident that tion temperature, as the reduced below a regulathe last to feel the influence of high temperatures The cold storage regulations are in the interest Canadian dairyinen, and must be observed. Sharp practices will prove expensive this season, and the old proverb will indicate the best policy to pur-

The Milking Problem.
cents and upwards, it can be taken as certain indication that the market for the June is the outlook just now. Never before have prospects been so bright for those engaged in cheesethe other hand, there is the impleasant reality of the scarcity of labor. Just now, more than at must plan to save labor. Some are lessening
their dairy herds: others are holding compelled to do more work individually at milking dime. Another class, but they are few, have
Hranged with women and grown schofl-children If the neighborhood to assist at milking. Such has, been found fairly satisfactory where reliable witkers can be found. It is also found that Sith milkers become re narkably adept when they had dairsing reguires a lot of it, but we must



THE FARMER'S ADVOCATE

## The Late Mrs. E. M. Jones.

## Findings in Feeding.

6 .5th year of her age, Mrs. Filiza Maria in the passed away. Mrs. Jomes dairy anthority,
of Scotland, bus a mative pleted her education in Montreal. It is not alone as a writer upon dairy subjects and as a surcese Tul manager of a most noted dairy herd that MLrs the realm gained for her a most and other light literature great work of Mrs. Jones' life, howerer teach people how to make dairying pay, and for Not only was had a most singular adaptability and culture of her mind and for the refinemen perience and observation she became from exiudge of dairy cattle, and by careful selection and mating, succeeded in building up a herd of Jersey wist honors a continental reputation, winning high United States. At a combination sale in the were soldy some years ago, at which 350 Jerseys men in the Sta of them owned by the wealthiest offered to the contributor who made the highest captured price on five animals. This trophy was
cars. Jones, amid the wild enthusiasn of her American friends. On another occasion Mrs. Jones won a handsome silver tea set, donated at Jondon, for the three best dairy cows, any breed. The competing cows showed a profit of
seventeen per cent. above value of food consumed

the late mrs. e. m. Jones.
while Mrs. Jones' cows showed a profit of fortyseven per cent.
The work done by Mrs. Jones in the interest the dairying industry stands as an enduring must come the fulness of a reward for good deeds Cell done. Surviving her are her husband, Mr. Chilion Jones, two sons and three daughters,
One of her short stories "Gold Flcie's Ride, was written for the "F'armer's Advocate," in tributions to dairy literature. .," Dairying for was her most notable production, thousands of copies of which have been circulated in nearl

## O. A. C. Dairy School

The final examinations of the Dairy School, it
connection with the entario Agrtcultural College were held March 24 th, 25 th and 26 th. Forty-
one students took the finals, of whom forty passed one students took the finals, of whom forty passed
siliccessiully. Oi these, 35 were in the factory class; eight were specialists in buttermaking ; one Was a specialist in cheesemaking, and six were in
the farm dairy. Since Decemper 1st, 1902,162 students have regi-tered at the dairy, including
1.3 in domestic ecience. Many of these were able
to remain but ior a short time eineciull those who came to the farm datry. However,
anch wooll is arcomplished for students who, by reason of home duties, can stop for but a week
or tilo. Mr Mar has heen able to do good work
amome the advancod tuto among the advanced students in cheesemaking, by reriments and take up points, relating to the
sim of makins cheese

## The Appie Orchard

## ay e. m. peart.

We have now reached the climax namely, the harvesting of the fruit. First, all
fruit which can be reached from the be picked; then use ladders of suitable should and as light as possible, in order to give the picker an advantage. A medium length of stepladder with which to reach the fruit on the under oranches is very, handy, and should be found on of extension ladders, but owing to their the use weight being far from the bottom, and the liability of getting out of order, they are not generally sopular. If a tree has been properly pruned and suitable ladders are used, little or no climbing The fruit is picked into large pails, or bottomed baskets, and handled very carefully as to prevent bruising. When a basket of fruit is brought from the tree it is emptied into boxes packing house. Arriving there it is ed to the the packing tables, and carefully sorted int on many grades as necessary for the market to which is going. All broken or decayed fruit is cast shaped to be destroyed. Wormy, bruised or badilyfruit. fruit must be removed from the sound to or our export trade, sound fruit is divided ine present time the Government demands that the size of the fruit be marked on each package, together with the name and address of the packer. packing. No. 1 fruit for export is still generally packed in barrels. The British people, generally are calling for a small fancy package, and within in this direction During the pa
their apples in boxes holding throwers packed apples were packed with excelsior, to absorb the moisture, and keep the fruit from bruising. All amply repaid for their trouble. apples in manilla paper, as is done with California pears and oranges, has had some attention, but as yet little progress has been made. At the same time, if transportation charges could be so regulated to suit the shipper at all seasons
of the year, the wrapping of fruit for export become very - popular. Undoubtedly, the fruit
ber
$\qquad$
presents a much better and more attractive appearance when carefully wrapped.
When the fruit is first placed in the box or barrel, the first row should be placed with the stem end down, and in even rows over the bottom
of the package. The bottom of the empty age is the top of the finished case. The rest of
the fruit must be carefully letting the mast be carefully placed in the barrel, to the fruit already in the the fruit well down emptied. Make the sample uniform throurhout and do not deceive the buyer. In England, and also on some of the American markets, the buyer and a largely on. the reputation of the seller Apples are graded for size, many dollars. diameter, and this must be carefully done the board, in which are holes the size we intend make the grade, is very convenient, as an apple tried occasionally fixes the size in the sorter's should be shaken barels are the packages used, the The manner of shaking must be found emptied. practice, but one thing must be observed, the apples must not roll around. Fill the barrel intle higher than the staves, and press the head cannot be filled very much be shaken, but they account of being shallow and when pressed severely the fruit would be broken. When hauling fruit of any kind to the shipping place, it should be With spring wagons, to prevent jolting.
With find a ready market, as they will ficult task Evaporators and cider mills use up many infong. apples every year, but not nearly all which are unfit for export. This leaves some energetic person a good opportunity to help the apple agrower ture cull apples into a useful which to manufacApples are usually sold by comm
chants, who charge a certain percentage for merducting the sale. When they receive the fruit it is sold immediately, unless instructed by the a glut, when they place the fruit or in case of until such time as the markets are favorablo forge successiul sales. In the case of apples, however, the commission merchant usually sells at the ples are in shipper. Our best markets for apchester. South Africa Liverpool, London and Maning markets, but at present the transportation rates are too high for profitably marketing our produce in those countries.

## Black-knot.

The worst evil we have to deal with in the black-knot undoubtedly the varieties of plums also very destructive on many susceptible to it as others; but it is are not so destnuctive to the cherry, and many farmers harly gren up in disgust or despair all attempts to of its a few cherries for their own use on account of dealing with There is only one effective way burn every black knot in sight at cut out and wherever it makes its appearance times and may be done in the way of preventionething nothing in the way of cure, except by means of spraying, keeping the The preventive measure is covered with Bordeaux mixture of the smallest twigs. It is a fungous disend and is propagated by minute spores, so small that scope alighting on the carry for miles in the wind, and modiately begin to propagate and soes, they im sightly protuberance makes its appearance un the surface of the bark is covered with Bordeaux never be stamped obtain a foothold. But it will amply proved by oxperienis way and it has been eradicated in any district by concerte be entirely cutting out and burning it. The trouble lies in the fact that in municipalities where fruit-growing here a minor part of the farming operations not law and it provided for enforcing the black man is loath to incur the a will letcer, and by forcing them to destroy the knot-infested troor $n$ those townships where it has been entirely stamped out, iruit-growing was the chief industry and the council appointed an inspector whos very vestige of it wa

There is no use in one man trying to keep his rees clear of knot unless his neighbors will do ing same. He may keep on cutting out and burn someone else in bis vicinityt away, for probably pollute a whole township. If enough of it to dill not appoint an inspector and it would councils ifficult matter probably to induce them to do so some means where the fruit intustry is small, ters or the assessors provided. The pathmasmight be charged with the duty of seeing that

## Spraying Calendar.


(irape
Fungous diveases, flea beetle.
Nursery Stock.....
Fungous disease: Frongont diseases. .........
Peach, Netarine, Apricot
Brown rot.
Pear
Leaf blight. scab, pasilia, codling
moth.


Potuto
Scab, blight, beetles.





APRIL 15. 1903
black-knot was allowed to exist. But apart fro
this, an honest effort should this, an honest effort should be made by tie
farmers themiselves. The man who has a lot that he is doing a positive injury to the fact neighborhood in which he lives by his neglect, and that he is in honor bound as a good citizen and

## Small Fruits for the Farmer

 ith an abundance of fresh fruble is not provilue average farmer will and the very first thing the hat he has positively no time for these that is and that answer is so positive and so conclus, that it practically settles the matter. But, hold onn the farm, Granted your time is fully occupied fun, but for the profit you doing this work for you are growing grain, and roots, and of it leed your cows and your fattening s'eers and hogs and you expect to get a profit on your lation trip of land that your attention to a litts that will take very little of your at odd times, you little or nothing, and will cive you will cost profit by far than any spot of equal area on vou farin. But the farmer says, "Oh, well, I would a garden." And how I wânt than hother with often will he have fresh berifies on his the How ing the summer? He will buy a few for cannine a pail or so of each kind, and expect his wifo to make these last out the year. But as for fresh unknown quantity, as far as sugar, they are an table is concerned; iust where average farmer's in abundance. They are not an expensive to be is the farmer: he has his own cream, and surar man in a position to enjos these there is if he is only willing to see it. On the scormer health ailone, the garden is a gilt-edged score inment. It helps to ment. It helps to keep away the doctor and the every day during the dish of ripe strawierrie, person a new lease of life. There is something in the juices of fresh ripe fruit that tones un tho and makes you feel that life the sluggish live living. third of an acre farm contains 100 acres. Surely fruit for the home supply. That is only the hundredth part of the farm, a small fraction in deed. This should be in the form of a long, mall none of the live stock easy of access, and where is a llice sandy loam, or a clay loain, it the soil nicoly. Fir:t manure well, and put in some kind of hoe crop, preferably potatoes, and keep we cultivated and clean. This is to thoroughly cl rows of strawberries, fifty yards long; have th apart in the tows and the plants sixteen inche Haserland and Crescent. Plant as many rows lasplerries, but have the rows seven feet apart,
and the plants three feet apart in the rows plant half a row with Marlboro for early rows. Plant with Cuthbert, Landen, Columbian and "Older." The last named is a black can, and the Columbian Taalf a cross, a purple berry, and a mood canner. Thenf a row is enough for the last two namedl.
Then plant two rows of blackberries, one each of Lawam and Fldorado; these rows should b herries, seven or eight feet from the blackherries and four foet apart in the row. Of gooscherries Mlant the hes will do : plant Pearl and Downing. Id. Wlant Fay's Prolific and Cherry currants. Fo To White (irape; and for black. Champion and ishark Narles. A strip of land next to the strawIt can he well manured, and used in the meantime trawherries early potatoes. Some new rows o st rawherry plant is short, and as you can only font two full crops, you must renew, but the other ou several years. (iet gool, heal'hv, vilgorons hilits to start with, and, now, here is not much Whe any better investment on the farm. The ation will he discussed in future numbers of Wheat stack has lately heen threshed in Sufaco. It was the produce of five acres y -four trammstances under which it was left unWhad were that the owner had rowed that he at thresh the stack unlecs wheat reacher


THE FARMER'S ADVOCATE

## Railway Commissionership

Some Essentials for the succeasful Gardener.
Get good fresh seed of the best varicties from
a ieliable seed firm, but to not run tor a teliable seed firm. but do not run too mult catalogued while the standard sorts are still considered new and promising have been fiscarmerly shows that they still possess good lualitiscs, and in general, are most satisfactory, although some interest to the garden Read and study wh.
men's experience, but do not anking their suggestions too make the mistake of
that Iocalities difly.
Remenulen that localities differ, soils differ, and other thing: lowing them to the letter Therent results from fol the one who can glean the principle the man in of truth, from such suggestions or description of Ton't invest apply it to his own conditions. fertilizers, unless you are in implements and responding advantage from their use in a cor genden is not ablove a quarter-acre, hand imple Inents, esluecially the steel rake, are the best tool seeders, etc. is in the miore complicated Alove all, don't put war. gardens you buy plants, be sure of what you in beds. If A box placed in a sunny window and covered at night will give enough blants, if the right seed is our garden sturf last sonson ordinary family. if not yield as well as was expected, do not hame he soil or the weather. You have probably to w. withlolding stable mitrogen) in the soil, and chemi and apmyving Nood ashes, or ever improvement a marke. Sult. Visit a success-
fill glower what system he has and get an idea of the
methods he methods he practices.
Examine closely prize-winning succ mens of products at the exhibitions, and pass them your self. but don't slave at it be thorough. Do n't Watit for weeds or
pests to appear, preough cultivation thorspraying, and thus keep the plants growing until harvest. Use
your brains, aepend altogether o
nain strencth se...ure groold crobs a
the least expense the least expense re-
quires consider ab 1 l brain work. I ast, but not least, be interest-
ed. Your success will be measured by you


twenty-five out of twenty-nine the Province Therably, and two others are expected responde The Presidents of the Provincial Fruit-growers growers' Stock co hagara District Fruit with what result we have been similar action A quarter of a century's intimate friendship with Mr. McKinnon enables us to endorse to the ful all that is said by Mr. Hendershot. The agri one representative upon impor have at least That representative should be a man of Board powers, broad enough and acute enough to dis over what is iight as between the producers he a man bothe the public carriers. He shouli o adyocate the right in angh and tactful enough nien could do this hetter than Mr. McKinnor.

California Wash for the Scale. The Ohio Experiment Station has issued a
special bulletin, calling attention to the of the lime, salt and sulphur wash (Califocts The wash consisis of : lime, 15 lbs.: Sulpe scale. ilss: salt, 15.511 s.: water, 50 gallons. Sulphur, 15 and supphr are added and a thick paste formatt The mixtme is then diluted with twenty gallons wi wator, and boiled for about two hours: enough
reat your garden well, and all things ierest equal, it will do
Halifax, $N . S$.

## The Tree Plagging Process

## $M g$ us of the articles in commendations are reach

 method turning daylight in upon the alloge diseases in fruit trees by insect pests and fungous the bored in them. The statements ances in folly forms and Pror. F. T. Shutt showed the latter of a camplo at and the anasis by the freen treated showed that it a tree that had mixture of sulphur and charcoall he agents or was made for plagging the tree of which were sold at $\$ 200$, and the mysterions cormula-being furnishey them not recrive th Since A few cents' worth would whers pe Consins, of the Railway Mail forsom Mo. Hugh ears aro several trees wome shmeroll in has marlon he pluger, of a large At our rempest he borel out mise the sulphur was fonmel evidently in the same Since. He comld not was inserted nine years 5
$\qquad$

## THE FARMER'S ADVOCATE

## 372

| by plugging, was in wistence jo years ago, It isa long-lived delmsion. How any one comld ex-pect to poison insects in that way passes com- |
| :---: |
|  |  |
|  |  |
|  |  |

## POULTRY.


#### Abstract

Feed for Young Chicks important in its existence. It is its stant and and  | sighs and chi young chick jist wants to see the |
| :--- |
| feed of the that time he will relish $\begin{array}{l}\text { and }\end{array}$ | reed of hard-boiled eysys and stale bread crumbs. Corn cake and fine beef scranss are altso froot week:   the chicks are ready for their first teal, the hen will have been saitisfor with ration, and counted tur where she swill of not a grain   duced into the bill of fare, and onions, grass and other green food should form other green food should form a part of the ration Cracked grains mav soon whole grain may form the hullow, and later on and good water are essential throughout. Milk is also very useful for the youngsters, especially when used to dampen the stale bread, eggs, corn and see that the food is always clean and pure. Sloppy or sour food brings on diarrhoea, therefore squeeze the moisture out before feeding.


## Nest Boxas.

To the Editor
armer's Advocat
Sir,-Having read in your April 1 st number
the article entitled, ""Poultry-raising in Assinithe article entitled, "Poultry-raising in Assini-
boia," by Mr. A. Neville, my attention was particularly drawn to her method of preventing hens from eating their eggs. I have tried her plan of curtaining boxes, but I have found, by ex-
perience, that nail-kegs, with just a little straw perience, that nail-kegs, with just a little straw
in the bottom, make better nests than boxes. When the hen is down in the nail-keg on the nest, she does not have room to eat the eggs, and if she stands on the top of the nail-keg she cannot
reach them. If boxes are preferred for nests good way to prevent the hens from for nesting their eggs is to fasten a piece of old linen on the four top edges of the box (small boxes are preferable), and cut two slits in the center of it, at right
angles to each other, for the eggs to drop through The line each other, for the eggs to drop through
The line be left slack enough to cause the center to come within an inch or two of the straw beneath, so that the eggs will not break when falling. When the egg is laid it falls through the slit, and the hen is prevented from eating it. I
hope I have made these suggestions clear, and
that they may be f Nolthumberland Co MRS. M. R. SPRUNG.

## Turkey Ways.

Whder trees and beltind boxes and beering around a good plan to set not some kind of a nest is if she condescends to onse the nest, nuch time is
saved in getting her eggs. In raising turkeys, tiry Saved in getting her eggs. In raising turkeys, try
and get enough eggs to place under a hen at the and get enough eggs to place under a hen at the
same time the turkey is set. The old turkey can then tend to both flocks, and will prove a belter
mother than the hen

## Producing Laying Strains.

 Perhaps the most useful experiments in thepoultry business are carried on at the Mafne State University Farm. Here hens must have a record from these individuals the egro-producing breeding frmly fixed in the breed. Cockerels from such
breeding are sold breeding are sold to the farmers throughout the
State, thus disseminating the cood work work State, thus disseminating the good work. Work
along these lines, we believe will he of infinitely more value to the breeds than the extreme efforts
put forth to produce fancy marking, regardless
of the usefulness of the birds for cgas, or meat.

[^0]
#### Abstract

Sir,-Foul brood will soon, be a thing of the past in Ontario, which at one time had more foul in the wiarles than any other Province or Stat in the world, and now has less diseased ones than :uny. other country. sound and very choice apiaries for the number kept than any other country in the what has brought about such great results $I$ I will In 1890, round beekeepers that Gemill (one of the best all saw very plainly that the whole bee industiy our Province was going to be wiped right out by Che rapid spread of foul brood, with no law to colonies that were being shipned ine many diseased


 localities. Mr. Gemmill spared neither time man expense until he got the Foul Brood Act passed which has proved to be the best thing ever donefor the bee industry as the Act was passed, T was appointed as soon for the Province by the Directors of the Inspector Beekeepers' Association, on account of it being ridely fiown that had been curing disensed success at the business e that, and had been a considered a suitable man for the positionon was I knew that I had a big job before me at that
time, and wanted lime, and wanted a few thousand pamphlets pubto every hed method of treatment in to be sent to every beekeeper in the Province. This was
complied with, and 10,000 of these little books were ordered to be printed at once. A little later Grote, asking to have 500 of these printed in German. This was also granted, and in a short
time after that the time arter that the 10,000 foul brood pamphlets to the beekeepers. These were of Agriculture me in getting many disesesed were a ariaries cured. The to Directors of the Ontario Beekeepers' Association could, and sent me lists and helped me all they wanted inspected and urged the beeries that they where to go strictly by my treatmerts every helped me immensely to get the disease niped out The first season that I went out on my rounds village, town and city found the disease in every in every country place where heos into, and also now I am very much pleased to say that T have succeeded in getting the disease almost driven out can very easilyc, antend have it under control and suspected to have a little of the apiaries that are 1 have a few apiaries in the County in them, in the are suspected to have the disease, and a fow in Western Onty of Simcoe. and a little work to do this is all that I know of some down East, and the true condition of the aniaries of intare about any man in it.
has been, the only Inspectatteville, Wis,, is, and Mr. W. . Z. Hutchinson is the only Inspector have two Inspectors to do the work, myself and twice in the last ten yave only sent him out but Some three or four inen, and these mon to satisf. Inspectors appointed all over the Province loca we have eimht en in Ontario, and counting that would make 344 townshins in each county, that we appoint an Tnspector for each township that that each of these 344 men were to send in his
biil at the and bill at the end of the season for $\$ 30$ on
would on that
that this little sum come from, $\$ 10,320$. Where would
 -ery many of them, and when certainly would, and fold brood that had been poisoned through some Bloom, they spraving fruit trees while in full
brood when it reports of this kas not. I received more or less Inspector, and some from beekeepers that $T$ did
dhink woulld know it, and when $T$ cot to Pate was very much s.anprised to find that their
were mistaken, and that it was dead hat
wort Any beekeeper that haul brood at all . hrod apiar should apply to me to help him, and he can de-
pend on th that I will never report to any person
bout the vipist No beeckeeprer should ho foolish enough to allo anve recsut to cramin his collonies that wo would it there. herause it hurts the sules in all sunch
apiaries you want inspected, and I will see what
they are cured, but do not they are cured, but do not ask me to tell if I Ihat
the disease in any of them, because it would trouble and do others no good. I have tanse that the diseased apiaries are cured, and th see sufficient.

QUESTIONS - AND ANSWERS. er'






## Veterinary

[Answered by our Veterinary Editor.]
Subscribers are kindly requested to read the andilions at the head of this department before

Chronic diarregea and founder
for six months. She eats well, but does not
2. Mare, when very warm, was allowed eyes, and does not She is stiff, discharges from Ans. -1. As this men has only affected in this way, we are safe in assuming been le is not constitutionally washy. There is litcannot masticate trouble is with her teeth. She rhoca. Have her teeth dressed by a the diarveterinarian, and the trouble will no a competent 2. This mare is foundered, and has inflamm caused the eyes, from the effects of the reaction Had she been treaterled to the wind as stated. been a perfect recovery, but now, as bour have have become chronic, a perfect recovery, especially of the stifiness, is doubtful. Purge her with 8 drs. aloes and 2 drs. ginger. Bathe her eyes re of the following lotion into and put a ferv drops daily: Sulphate of atropia, 10 , three times water, 2 ozs. Remove her shoes, and bliste around the coronet once monthly, for three or biniodide of mercury fllowing : Two drams each bLe ors. vaseline. Apply in the usual way whit bleeiding from umbilicil cord-bog spayins was not broken. I I cut it foaled the navel string the abdomen; it bled freely; I tied it with a thread died. What should ip have bleeding, and the colt hind legs, where spavin comes puffy lumps on bot Peterboro Co., Ont. Comes. He is not lame is not broken off during delivery, it should string) saturated with a five pert cord that has been acid. Tie about an inch below the abdomen and ut off an inch below the knot. It is moed, and ice to have some cord in a carbolic acid solureparad for use if needed, but if such be not cannot take place when the navel cord is properly 2. These are bog spavins. lepeated blistering mercury mixed, cantharides and biniodide of in the usual way, by 2 ors. vaseline, and applied Tor two days, washing off the the parts well daily applying vaseline daily, will reduce them. Blister swollen teat, and sore feet been swollen for a month, and gives lumpy milk be lame. She cow has sore feet; she appears to Glengarry Co. Stands in a box stall. F . L. D. WracN If the teat alone were involved of the quarter. chronic, it is probable the condition has become sathe the yuarter long and often with warm Water, and after bathing apply camphorated oil,
with smart friction. as to not or five times daily, and feed lightly, so as to not encourage the secretion of milk.
in . It is probable this cow has inflamm her feet, caused by standing too much and Want of exercise. Apply poultices of linseed and keep warm hy adding turnips; apply warm,
alls, Change the potiltices twice daily. If any

APRIL 15, 1903
NTHRIETY GALF - UNNATURAL MOTHE
Heifer, two months old, kept clean warm, acts dumpish; appetite poor, is weak, li stomach seems to have dropped down. Fend milis 2. Mare due to foal in May, would not ow milk. How can I fotce her to raise it on cow year, and if this be impossible, what is the best
method of feeding it? method of feeding it?
N. Y. State.
Ans.-1. Your calf has indigestion. See that the milk given is of good quality, and add to it
about one-sixth of its bulk of lime water. Feed in small quantities and often for a time, and as her digestion improves often for a time, and as
less frequently. quantities, and less frequently.
2. Mares that are vicious with their foals can
sometimes be controlled by applying sometimes be controlled by applying a twitch I have known good results from for a few days. with brandy and rubbing some of the same on the dam's face and nose. If all means fail, the freshly-calved cow, or the freshest one procurable.
The milk should The milk should be given warm and mixed with water, in the proportions of two parts milk, one part of water, with a dessertspoonful of brown
sugar added to a pint of this fluid. At first the colt nceds to be fed often, and a little at a time as it grows older, larger quantities can be given at longer intervals. As you succeeded in raising the one last year, I see no reason why you should

## barbed-wire wound.

Horse cut his leg on the inside from the hock nd is now, with barhed wire. The hock was, cot a lotion and caustic but the 1 treated, and heal. There is no proud flesh. He is not not

Ans.-Barbed wire wounds are usunlly slow to heal. Apply cold water and carbolic acid one you apply the better. When the cold water healed you will be able to reduce the thickening that will probably remain by repeated blistering cribbing.

## 1. Is there any way to stop a horse from crib-

 2. Is it lawiul to sell such a horse at puljic auction without notifying the bidders?Will running a fine saw between the incisors Chateauguay Ans.-1. A permanent cure cannot be effected.
Buckling a strap tightly around the throat will prevent the practice of the vice, but when the
strap is removed he will, in all prohability, crib 2. Yes ; if he be sold without warranty,
3. No ; this will do no heaves Fed mare for two months on dusty clover hay;
about Christmas she began to heave and courh. about Christmas she began to heave and cough. she is not much better. She heaves worse when heated
$\qquad$ usual result of feeding hay of poor quality the recially clover. The disease is incurable. If quality, clean wheat straw and grain of good relieve the symptoms, but cannot effect a cure. Feed often, and a little at a time, in order to
not allow her to overload the stomach at any time. Drugs have no permanent effect. at any
pigs with skin disease.
hge, though nothing could be seen wrong with them. They did well until weaned, and then beame covered with a black scruff and pimples.
Norfolk Co
Ans.-The pigs have a skin disease, probably we to a parasite. Wash them thoroughly every water, thirty parts. Clean the pens ont well and arbolic acid, and when dry apply hot lime wash obstruction of mile duct.

## The passage into one of my cow's teats is

 ng. time to The milk is goorl, but it takes a Ans.-So long as your can get the milk, evenhomgh it takes time, 1 would adtis. 11) enough alone, as interference, "sperially when Howed by severe inflammation. If the passage aromed by severe inflammation. If the passare
mecome inactive or cinct, either allow the ruartel "perate. The operation reinites an expert Th knitting needles, cte.. invariahly proture
rious conditions.

THE FARMER'S ADVOCATE.
became afte ted with scratches. They while wour each. They still have scratches. They weigh 1.400 lbs .
Peterboro Co.. Ont Ans.-Purge each with 9 drs. aloes and 2 drs
winger. night and morning. in damp food. hyposulphite of soda
for two days and warm three times daily. Then apnly three applied daily a lotion composed of 11 oz . each sulphate pinc and acetate of lead, 2 drs. Carbolic acid and

## GOETREE IN SHEEP

thick-neek. Valuable Leicester ewe with goitre o same, or other advice as would be tafe. Ans. The Co., Ont.
in Ans. - The application of iodine ointment has, the enlargement known as goitre. As the ointsheep we would advise the use of li luid iordine with the color climinated, which is used for the can trouble in the human patient, and which
calyes that will not eat.
milk, will not eat hav, months old, fed on skim chew at all the wood thay chon reach. roots. They Waterloo
in a little water, as a drench, phosphate of lime Smear the mangers, etc., with a solution of dally. or some foul-tasting material. Feed the food there is in small quantities, and often. Unless fuire a personal examination to diagnose, this reatment will suffice.

## Miscellaneous.

Subscribers are kindly requested to read the conditions at the head of thas department before KILLING TWITCH GRASs.
Could you give a good method of cleaning
farm of twitch grass ?
Dufferin Co $\begin{aligned} & \text { SUBSCRIBER. }\end{aligned}$
Ans.-Twitch grass is a most persistent peren nial; it propagates both from seed and from root
stems. It seldom directed toward preventing the reals efforts are to cause them to decay. Shallow cultiva, and frequent turning of the soil, root crops, cor, crops, clover crops, summer-fallowing, and cultiva most effiective meithods grain is taken off, are the the weed is worse on employed. In many cases If such is the case, manure, drainage and a little lime would make the soil less favorable to the growth of the grass. Avoid leaving the land long cultivators, etc from field takg plows, harrows, such a course as the following : Summer-fallow wheat (seeded), red clover, one crop : roots, corn or peas; oats or harley, seeded with red clover.
Cropping with fall encourages its arowth ane plowing in the roots and spreading the nodes through up the just at the right time. Cultivation in June soil gang-plowing and harrowing in September are soil, tend ${ }^{2}$. Crops, by shading the were summer-fallowed one season and sown with stamped out.

## Can Ture-bred stoce

## rossing?

Ans, - Practically pure-bred stock may he bred by ion for several generations on original female foundation stock, pure-bred or of mivell breeding, or of common
stock of no known breeding, but produce of such breedor is mot eligible to registry in any Canatlinn herd haps, that for one class of horses. Approved are admitted to remistry in the registered sires England and the Tinted States by crossing and in crossing with two or more pure breeds till a desired hrought to breed to type with sufficient certainty are status in a reviter for such new breets.
CROWS AND SEED CORN.
drzzy fowl. The roost in the morning. In about th
they are all right. Fres. hey are all right. Eyes are half shut. the power of their legs and wings
Bruce Co.
Ans. -1.
ligestion: The giddiness is probably due to in oots and cut clover hay, grit, feed plenty of trouble with of grain. A severe cold causes the containing a ball about the si/e of a havelnut, and ginger equal parts cayenne perper, mustard good remedy for the whole to hold togel her. A solved in water until it is about as thick as disoap, a tablespoonful of this to a gallon of water given to drink. See also that there are no lice. hat they do not rest a change of diet, and see ill do them good too

## preparing stubble foir oats.

 Would you advise as to the best method of wet weather prevented plowing last fall.Perith Co
W. B. Ans.-This question indicates that there are still some of our readers who do not practice a
rotation of crops that providec for cereals on clover sod, root, corn the sowing of Other methods will answer, though, until fertility begins to fail, then there will be some earnest efort made to economize plant food. In this case work ip the soil. Shallow the stubble and to best. It answers the purpose of forming a seedbed; it buries the stubble; and it also allows the
capillary water of the capiliary water of the soil to approach nearer Harrowing and other fining operations will course, have to be practiced according to the texture of the soil. Rolling with a heavy roller just before sowing will settle the soill and assist or harrows follow the surface, then if the drill be formed to retain such moisture about the wil the buffalo moth.
Can you or any of your correspondents tell
me anything about the Buffalo exterminate about the Buffalo moth, and how to Middlesex Co
laria). -The Buffalo moth (Anthrenus Scroph.ufly in the spring and lay their eggs in inetle. They woollen goods and carpets. The in houses, in clumsy, clothed with hairs, and can expand are larger tufts behind. In this larval stage they feed on woollens. Napthalene in crystals or balls before being put away for the summer should thoroughly brushed, beaten and sunned, then put They may then be laid away ends pasted up. balls between back away with naphthalene fested, gasoline may be used with safe are in plan injure any but the cheapest fabrics. A better take them oughly clean the floor before relaying, and thorNeither of these methods will destroy carpet and it will be necessary to keep a close watch for In badly that may hatch about a week later In badly infested rooms, it might be well to try a flat dish, close the room up tightly liquid in intil the chomical has evaporated. Avoid taking -. light near the liquid. Use nephthalene freely

## - killing thistles.

known remedy for eradicating the Canada is any have only one small patch, and have cut and expensive the remedy is if it will only kill them Ans.-C'ultivation is the method practiced
most districts to kill thistles however, gas lime might be tried, although it or two. They misht, also, be crop for a season With a pile of straw or other refuse. A solution
of white arsenic would kill them, but it would he prossible for them to start again from the roots close to the groumd or plowine awn mitting mended by some. We have seen then extermited on pasture by the former methon Dorking maio - henhodise plan.
$\qquad$ 2et is. Dorking erys? Her Hill poill Als. - 1. See advertisement of Pine Hill Poultry The Shan Warch 2nd issue in Poultry Wepartment
spaying - pligelk plan - scratches. 2. Could 1 daim damages from a man for whom 1 bonght some sows if 1 could prome they
had been spayed? 3. Would sou give me a good plan of piggery 4. Please give treatment for scrat ches? Ans.-1. Spaying consists of removing the ovaries from a female, usually done to prevent noyance in driving.
and that is not they were guaranteed to breed hat is not probable
See March 2nd issue, page 216 . aloes and a purgative of from 6 so 8 drams of with soap or molasses. Feed on soft feed for a day or two previous and subsequent. If the
cracks are deep and the flesh inflamed, apply a poultice of boiled turnips or linseed, or bran, of acetate of lead, one duyce sulphate consisting one ounce; carbolic acid, two drams; water, one
prding to induce froiting.
Could you tell me about what time of the year is best to trim up an orchard for fruit, most
of trees being well grown? Frontenac Co., Ont.
Ans.-Pruning does
fruitsulness ; cultivation, not necessarily induce must accompany it. Pruning, however, at certain times tends to induce fruitfulness. It is noticed
that fruit is borne on fruit spurs (shor branches); the first on fruit spurs (short, stubby force the tree to produce these spurs. Care be to also be taken not to break these spurs off in picking fruit or pruning. Theoretically, the time just when growth is beginning to cease or abo is midsummer. Buds which produce leaves and fruit are formed during the late summer and fall. In their early existence, it is not possible to cell light pruning in the summer, a greater, but by these buds are started, and the probabilities of a heavier crop are insured. Direct results from this practice are not always obtained, as it may be necessary for the tree to first produce spurs,
but in the second year after such satisfactory results should be noticed Sumed some then, is the best time to trim the trees to induce fruitin
Has the law concerning black-knot ever been
published in the "Advocate," if so, in what num-
her ? If not "Old wormer and who is supposed to enforce it? C. W. B. owner of land to cut out and burn all black-kno lound on plum or cherry trees on his land, is for the inspector (if any) appointed pursuant to Sec. 3 of R. S. O., 1897, Chap. 280 to to force the performance of such duty; but informa-
tion may be laid by any other person in tion may be laid by any other person in respect offences are punishable lyy fine of from $\$ 5$ to $\$ 20$ removal of wood
cedar to B , who pars for and on it. A sells some home and getting permission from $A$ to pile the rest upon the farm, which he does. A dies and wills place to C , who rents for one year to D , Jan. 1st, 1903. B's pile of cedar and a pile of Jan. 1st, 1903 . B's pile of cedar and a pile of
wood which helonged to A being still on the farm.
and there was and there was no mention of either at time of taking the wood? The agreement between Or and nances.
Ont. I have sows that have of late got into the
habit of eating hens. 1 feed them ill the gles and apples that they will eat. Could mancuring them of this habit?

Ans.-Since the habit has been contranted, it
can hardy be cured, untess the hens atre remomend

 will not do them any harm. scrap misRepresentation
rom the sight of the suws ford serd with olfalfa, 20 with feas and

## 1. I intend building a bain $74 \times 46$, and mean hould I use?

 teers, is it best to tie young stock and fattening . Would calves not be better in boxes? walls? 5. Would it be best to have a cistern outside, and pump water in through a pupe, or place it from the stable, where water could be drawn 6. Is it safe to dig a well in the stable? Ans.-1. The deep hox style of outer IV. M. inconvenient to clean out, especially with cattlein the stalls. dairymen and feeders has now preferred by many inches from the heels of the cattle six or seven about twenty inches wide, slanting upwattom couple of inches to passage floor, which slope latter is liquids working back on passage. The edge of guttor Finch engher at wall than outer gutter is made level. Floor, gutter and pass of e usually all made of cement concrete. when tied up and oft do better in boxes than be handled much more easily. The boxes should lecs large enough to hold about fen head, should 3. Yes.
4. The object of using the oblong-shaped stable. The same mend light on the floor of the the square window and bevelling the inside of the window sill so as not to interfere with the down in most stables is thats of light. The trouble to become so laden withe windows are allowed their usefulness is almost destroned dust that no doubt that the long windows will admite light to the floor, but there is the danger 5. If there were a bank near the narn int which the cistern could be buit the barn, into fo allow of using a float to reculate the enough supply in a trough, at a lower level in the barn a bank. If not we would put the cistern in such we had wlenty of reom put it inside, provided cement, and cover with an arched or build it of of the same material. An opening would bur leit and the center of the cover to admit the water strainer. to catch the dust out the sediment. A the water, would be placed near the entraterial in 6. Tn some caces it is done, hut the practice
$\qquad$
$\qquad$ bottom ends of staves are getting rotten. Can I cut out Say two or three feet, from the bottom, and replace it Way to repair it without rebuilding? posts: to peel orf the bark from the end that you which is above?
Leeds Co to leave it on and peel that
SUBSCRIBER.
$\qquad$ the forndation should he in line with the inside of the obstructed. If this is not in secticaling would not be the bottom of the silo up practicable, you could raise aiderable room. This, however, would be wasting con-
$\qquad$ for the wood. Very often, though. the parkervative decay. It cannot be said in cuery case which is wis the
better way hut hetter way, hut if the posts are peeled all over,
$\qquad$ modower erops.
Wish to sow something on a small plot to fon my home through summer, and at the to 2. Have a small plot sosedod tore
$\qquad$the clover is vers thinthy did not come up ancllso he cut for hay if not all wed before they2. You will probahly get more feed off your
louts of sulf in tha futur clo

USing Comimercial fertilizers
ly so), that is clay poam ind (exhausted or ne:n live miles from a station. On these fields
wish to sow peas seed down sow peas, peas and oats, and barley ani this spring. There is not timothy and clovers farmyard manure, and we have ordered: obtainable

1 ton nitrate of soda, $96 \%$ purity $\qquad$ available phos acid $15 \%$-18\% soluble and
ton plain superphosphate, $14 \%-1 \% \%$ soluble and 8.0
a vailable phosp. acid................................. 14.00 1. Have we ordered infelligently quality he two phosphoric acid fertilizers is the mof economical?
these will serve our wants best ? of the combination should be used How much (c) When, and how, should the fertilizers be ape plication of fortilizer other special advice re ap3. Will you outlime a which to experiment for ourselves?
bring thece suggest a feasible system that woul too expencive up in fertility, and still not bo New Hampshire.
Ans. -1 and 4 . If it were certainly determine in the New England States, was denlotedy found three elements of plant food, this selection al many cases such seils to be intelligent, but in lack of humus and nit are simply suffiering from soil to a high state of fertility, the humus in manure be increased by liberally. usime hat the buckwheat, well filled with this humus thorough tillage, the other clements suece to liberated in the soil in sufficient quantitics are ing procecses tillage, humic acids, and the decary nert plant food whe matter, tend to liberat With this humus, there may soil is orercharged but in many countries thisphoric acid and potash and the princiuntries this stage is seldom reache ost of phosphoric acid in each of the fertilizers obtained from the plain quicker results will be more quickly soluble in the soil water, as it is effect of the bone-black will probably be but the of soda may he the present season the nitrate nitrogen from the air murh hut clover will gather be bought. Ashes may be said to be good value 2. Nitrate of soda should not be mixed with of nitrogen results dissolved bone-black, as a loss difficult to sow. Try about? mixture is apt to be superphosphate per acre, and the same of the with the . Sow it at seeding, either by ha the nitrate the drill. About 130 pounds per acre of the about the end of Mar. IUficient, and can be sown rot be sown as thickly as upon the oats. From
Goo to 800 nomn supply a considerable the ashes per acre would the crops will probably need it. These and all have the fertilizers evenly distributa In every case Top of the ground. Fvery farmer should on the published by the McMillan Cerility of the land," dealers have not got it, order through this oflice, cuedy small plots try each of the ferifive as : 1 , Bone-blat and in different conbinations of soda and ashes :3, superphosphate and nitrato ombination will indicate the need ashes. The first second the need of phosphoric acid: the thish: th Whative ralue of superphoric acid; the third the(h) the the athe-
"thene ont

ar.

$\qquad$
We heime skleling mantire.
oll the mamure sold his farm: now he wants $t$sell the mamme that is on it. Can he sell it, on
does it belomg to the man who bought the farm?
Liscar, Man.
Ans-A - comme that it is SUBSCRIBER.
the ham. as in the ordinary case, it
treate aboutTreated as loing inc ordinary case, it must be be the land, and unless
tecerved by the vendor at time of she
to the
out legally sell it. and the rendor of the land can-cum"un"

## THE FARMER'S ADVOCATE

## How thick must I make cemem

In using epit? arge a tlue is required to carry of ventilation, how Ans.-1. To make the READER. have to put a second coat of cement on the inside.
The first layer may be from two and inches thick, and the top coating, made of three cement to two of sand, from one-halif to three one of of an inch.
2. In ventilating a stable only one of the minor factors that of the flue is inside and the outside air, the difference between the take, etc., all have temperatures, the size of the inthese circumstances the size of the flue must be modified as the conditions modify. On a windy day a
small flue will suffice, the same if the surrounding objects-buildings, hills, trees, ctc Withbove six cows, a flue about one foot square, reaching well damper to regulate the rate of fow, should give satis-

## - stone sillo.

opening from top to bottom, and bet high, have ar trong enough to stand? ing if bands of ingular silo might have such an open extended across the opening, thus binding the wall together. These would be necessary at intervals of
about four feet. to risk the opening, and heavy wire would be nece sary to hold the wall intact. The wire is built
in with the masonary. With the silo we see no reason for the opening the whape of height
of the walls; also, we believe cither more durable and satisfactory than stone woul Ontardo. concrete silo is becoming very popular in Western

## Please the mind

Please tell me the best blood purifier fo
horses? Ans.-Purge Mo irams of aloes, according to size, and two eight it ginger, made into a ball. After this, if no precific disease exists, plenty of soit foods, as grass, roots, bran, linseed meal, ctc., will :, all disease it should be treated. It would holp the action of the soft feeds to give would help the half of tartar emetic daily in the feed for about

## FODDER CROPS.

Hist fall for to prepare a twel ve-acre field of sod but owing to lack of hands this spring, have do cided to let the field go for pasture. What would hat would help some so Ans. R. M. ommend that part be sown with peas and oatd recommend that part be sown with peas and oats
and part with corn for fodder purposes, if you have some sort of portable fence to protect it
firom stock.

## NOTES AND NEWS

Live Stock Shipping Facilities :rowers' Association, held at Medicine Hat, mention bards made of the wretched condition in which the stock son, Leing knee-deep in filth, and the drinking place for Wleased to mere bog. The " Farmer's Advocate oi her. J. G. Rutherford, the new Chief Veterinary are leing carefully investigated. We believe there is lithess of the accommodation for ship the extent an Heretofore, it has been shamefully nerlected by thos Whose business it should have been to look after such Chief unloading the yards at Schrieber station, the (ine of the C. P. R. between Winniper and the main ond also a place for Eastern stockers and horses, was rimnd in a bad condition, and the North Bay vard much worse. The latter is a feeding place for waing West. There is no provision for hay feedwith fith. The C. P. R., it is reported, charge Can be bought at North Bay for 65 cents pert.), and North Bay conditions fall very hard on carloads orous action being taken by the Veferinary Inspec" Department will result in proper provision being he very the summer and fall trade, which is certain

## Seed Growers' Association.

Sir William ne batance of the $\$ 10,000$ donated prizes to encourage bays and girls living on Canadian
farms in the work of are being sent to those who were grain by selection main competition. Ten prizes, wanging from sul in the ly, for three jears for successful competitors, yea Trovince. Altogether, 485 prizes and oats, in every best yearly competitions, on the basic andrded seed plots of grain sent to Prof. Robertson from the each, were also in each Province in the main competitiol competitor 174 ree years, for both wheat and oats at the end the hasis were alwarded in the main competition on the basis of the largest yields of cleaned grain fron crops produced on the plots of 1901 and 1902. T) (wo years were grown from good plump seed of thes the large, well-filled heads, gathered by hand fron large on the seed were relatively most vigorous and awarlintr prizeed plot pound of cleaned grain produced atlowed for eac 1902 of 1901, and three points for each pound Following are the names of the successful com FALL WHEAT CLASS
$\square$ $\begin{array}{ll}\text { Bertie Armstrong, Constance ................ } & 75.00 \\ \text { Bndrews \& Co., Sheridell } & \text {......... } \\ 50.00\end{array}$ Adam Stevenson, Avonbank …................. 25.00 Ernest Cochrane, Ayr .................... 15.00
$\qquad$ Bessie Brimicombe, Gode $\qquad$ ontario wi
Pearl Hendricks, Headford ................ $\$ 100.00$
Char. St. George \& Co Tramore Edith Fleming, Ivanhoe $\quad$......... 75.00 John Dellandrea, Golden Valley............... 25.00 R. G. Brown, Chard .................... 1500 Duncan McRean, Laggan ...................... 10.00 Robert McKay, Maxrille Bay ….............. 5.0 Robt. H. Patterson, Northcote 500 Ienry Wraight, Poxinssan NEW BRUNSWICR Wheat Jennie Mullin, Totitco River ............. $\$ 100.00$ Bertha Proudfo Petitcodiac ..................... 75.00 Clarence Billing, Cen. Hanessille …..... 50.00 Crewdson Alice Fisher, Chatham .......... 15.0 J. B. Cormier, Elm Tree ......................... 10.0 John B. Nichol, Bathurst Village ............ 501
Farl N. Dunphy, Morans Farl N. Dunphy, Morans ........................ 5.0

prince edward islanil wifeat ordon McMillan, New Hal Eugenie Arsenault Lebainill Eagar Gillespie, Long River .................... 15.00 Flora Livingston, Hopefield ....................... 5.0 | Clara B. McLean, Point Prim ................ $\quad 5.00$ |
| :--- | :--- |
| Willie Jenkins, Vernon River Bridge...... |

. Waugh, North Bedeque ................ 5.0 NORTHWEST TERRRTORIES WHEAT. S. Kirkham, Saltcoats Talbot E. Steuck, Abernethy Peter Keith, Fitzmaurice $\begin{array}{r}5000 \\ 250 \\ \hline 200\end{array}$ Melrose Prevost Flett's .u.............. 15.11 Tarie L. Ripaud, Duck Lak
$\qquad$
osefa Neumier, Lang
Martin Ham, Hague
british columbia wimeat

## (rordon Frederick, Ladner ......................... $\$ 100,00$

 Wm . A. Araham, Armstrong …….......... $\quad 75.60$50.10 Percival French, Vernon .......... ............... 25.(10) Harry B. Biggar Lancle
F. W. Menzies, Yerter Island.

Flla J. MeCennan, Beaver I'oint
John Price, Marsville .
W. J. Armstrong, Constance … $\quad 50$ (in) Ciertrude Ladd, Caintown
Willert Prouse, (Goderich



Ethel M. Shaw BRUNSWICK OATS Ethel M. Shaw, Tobique River Shelbourne Ferout Petitcodiac J. Kenneth King, Smith wer Queensbury. $\quad 50.00$ Haroid Sorenson, Folev Brook 25.0 Habel Cripps, Jefrey's Otil-ce Carl Rasmussen, Rathurst Village ....... 10.00 M. In. Hastings, Murray Roo Fournier, Gloucester
PRINCE EDWARD IS Hedteg EDWARD ISLANU HIT. $\quad 5.00$ Cieveland Baker, Mar Corner Jas. Marchbank, New Aate … Lizzie Kennedy, Southport
Ernest J. Jenkins, Vernon Kiv
Mabel McLean, Lot 10
Hezel Edwards, North Wiltshire
Simon J. McLean, Point Wiltshire …… $\quad 5.00$
Samuel kirkham, Saltcoats Talbot E. Steuck, Abernet hy ..................... $\$ 100.00$ Violet E. NcKelt Silas E. Wheeler, Penliold ...................... 25.00 Walter Strone, Olds Marie Ripaud, Duck Lake …................... 5.00 Annie Bourne, Inuck Lak Sinarson, Logberg
Gordon Frederick, Iadner bia oats
Morrice Middleton, Vernon
Ella J. McLennan, Beaver Po, Gilbert C Mohr, Armstrong '.................. 50.0 25.0 Henry l'eterson,' Gabriola ....................... 15.00 Harry B. Biggar, Langley Prairie
$\qquad$ It would not be correct to assume that the increas petitors, averaging per acre oblained by the comcent. for wheat, were due wholly for oats and 39 per of hand selection of seed. The thereasedial system given to cultivating and fertilizing the land for the such illustration plots was an important factor, and such illustration of the effect of better cultivation was
one of the benefits of Prof. Robertson when making plans for the working
out of the scher out of the scheme four years ago. working Over mnety per cent. of the reports received from observed in stated that a decided improvement whe heads of grain, on account of the systeme size of the selection which they followed The average increase in the number of grains retitor duringarded for examination by each comto 19 per cent for the Dominion. This is to be accounted for wheat by the difference in the scasons and by better partly vation. There is a close relation between the increase bushels arer acro grams per head and the number of made by Prof. Robertson, Deductions to the results of the competition, are that careful study in the number of graits per 100 heads are due in season, and skill in selecting, in part to favorable tinued selection of thot least, to the system of con by hand from the most vigorous plants in the sect grain plot year after

Witeed Growers to be organized of improved and pure-bred sead extend the production branch of farming, arrangeed in quantity as a special been made for the forming of associations of have growers. The object of these associations will be lations as to method seed krowers by forming regustandards, and issuing, publishing information as to as will provide for distinguisting bet wices of registration pure-bred seed grain and ordinary grain. The hand-ected directed by an advisory board of the Dominion will be to consider rules and regulations to called together sochations. Records will be kept by a person or perdistinct classes for the purpose. There will be three o admit as eligible for registration as " pure-bred by hand from the largest and most viporoads selected a registered seed plot of at least the third ypants on
registration certificate of che he number of years of zutecedemt selections as, for or the tenth yoar second, it is proposed to admit as eligible for regis-
tration ats " "improsed ropistered seed," only lot of not a crop produced from a hand-selected seed lewtion. Third, it is proposed to admit as eligible ed produred direct from " crop registered seed," only if the intention of the Department of Agriculture


1903
The Edmonton Show。
The Ldmonton Industrial Exhibition is destined to
come one of the great annual events of the future and will exert a powerful influence upon the developa capital stock of $\$ 20,000$, fully subscribed, and so prosperous has the show been that the shares have
doubled in value in three years within the town linits, Weautifully situated on the Saskatchewan River, comprise the site, which is provided with waterworks and electric light. Both $\$ 7,000$ were spent on improvements, and $\$ 1$ first year second, and $\$ 2,000$ more will be expended this season The dates of the show will be June 29th and 30th and
July 1st and 2nd, and the July 1 st and 2 nd, and the prize list is $\$ 7,500$. A
fine programme will be provided. This show well deIne programme will be provided. This show well de-
serves the patronage of " Farmer's Advocate", readers, and its excellence as an exhibition and the fame and tract live-stock and the Edmonton country should atManitoba, but from Ontario and other portions of Eastern Canada. Edmonton is bound to set a swift
pace for the Trarritorial agricultural exhibitibns of

## Manitoba Seeding.

Seeding was quite general in many parts of Mani-
during the first week in oba during the first week in April. The land is re ported as working well, and the prospects for an early
seeding were quite bright.

## MARKETS.

## Toronto Markets

All on ofier sold at advanced prices, in some case
rom 10 c. to 15 c . higher than recent quotatlons day, April 10th, being a holiday, Thursday's markiwas particularly brisk, and all on offer sold. Export cattle higher;
higher; latchers' cattle higher; sheep
lambs oulling off in the prices prices will show a marked This is tdue to many causes. An increasing suar and the scarcity of space on ocean increasing vessels, with increased transportation charges, have seriousty militated
against our cattle. The recent influx of Argentine against our cattle. The recent influx of Argentine
cattle at Liverpool has cut into the profits of expert shippers. What the opening of navigation will bring remains to be seen.

> remains to be seen. Export Cattle -In request, $\$ 4.50$ to $\$ 4.85$; com- mon light, $\$ 4.25$ to $\$ 1.50$. Mr. Thos. Hood, Millikin Ont., sold nine exporters, $1,200 \mathrm{lbs}$. average, at $\$ 4.60$. Mr. James Hortop and Mr. Wm. Linton, of Claremont
sold ten of the best steers on the market Dunn Bros., 1.350 lbs. average, at market to Messrs Rutchers', Cattle.-Choice picked loads of butchers, cattle, equal in quality to export, weighing $1,150 \mathrm{lbs}$ to 1,200 lbs. each, are worth from $\$ 4.25$ to $\$ 4.50$, good demand; medium, $\$ 3.90$ to $\$ 4.25$.
Bulls.-Choice heavy export bulls, $\$ 3.75$ to $\$ 4.00$; light, \$3.j6. Messrs. Burch, of Toronto J Junction, are now buying a better class of cattle for export
pickled beef, taking all light bulls, those not suitable For export.
Feeders.-Short-keep feeders, 1,100 lbs. to 1,150 to 1,000 lbs. average, $\$ 350$ to $\$ 380$ quality, 900 lbs. for best short-keep feeders. Distilleries will run for a

THE FARMER'S ADVOCATE

> cmand for a laree number

1,000 head Messrs. Maybee wetw on the market io good request, average 400 to 700 lbs. each, at $\$ 3.50$ $\$ 2.75$ to $\$ 3.00$.colors of poor quality, same weights, demand. -The run of sheep was only sufficient for the cwt. for ewes, and for bucks from $\$ 3.50$ to $\$ 4.00$. per Lambs.-Wether yearling lambs, of which more are Graing-fed barnyard yearling lambs $\$ 400$ from $\$ 5.50$ to $\$ 6.00$; spring lambs sold for $\$ 6.00$ per heol, A few choice $\$ 2.00$ to $\$ 5.00$ per head
large Calves.-Market fairly active and the run of calves lower prices in anse steady, and prospects are for offer. Prices are from $\$ 200$ to $\$ 800$ quality from $\$ 4.00$ to $\$ 5.50$ per cwt to $\$ 8.00$ per head,
Milch Cows.-Choice milch
Milch Cows.-Choice milch cows are in good reques
by local dairymen at from $\$ 35.00$ to $\$ 65.00$ per heat The price of milk in the city being raised, has created a greater demand that ever for choice dairy cows.
Hogs.-This market was in to maintain prices for 5,000 to 8,000 hogs condition but in consequence of some trouble in the western packing houses this center became overburdened, and the price fell off a quarter. This did not stop the rush, many drovers were caught in the In consequence, losing $\$ 200.00$ on his consigniment, having one drover in the country ; arriving here, found to his astonishment the price only $\$ 6.12 \frac{1}{1}$ per cwt. for choice 160 -pound hogs; the light and thick fat at $\$ 6.00$; sows, $\$ 5.00$. They were culled still closer nt one of the city packing houses, which again depressed the market. Prospects market will fluctuate according to supplies, and the take a few weeks to regain its former position.


Whent-Red PRODUCE MARKET.
Wheat. - Red and white, 60c. ; goose, 65c. to 66 c
per bushel. In Toronto, white No. 1 Northern, 85 c . $72 \frac{1}{3} \mathrm{c} . ; 200$ bushels of red sold at 71 c . 20 lo at 71 c . to Rarley.-For export, No. 1 sells at 46 c . per bushel, sold at from 44 c . to 45 c . in Toronto. 33 c . at are quoted at 29 c . and 31c
to 37 c . per bushel
Corn.-Canadian corn sells on track at

## Peas, for milling purposes Gec

 Rye, 50 c miling purposes, 66 c . to 70 C . per bushel. Bran.-City mills quote bran at $\$ 16.00$ to $\$ 17.00$ onto. Manitoba offerings on Board of Trade quote Hay.-Thirty loads on offer and all sold at from $\$ 9.00$ per timothy, and at fromDressed Meats $\rightarrow$ Reef fore quarters, per cwt., $\$ 6 . \ldots$; , $\$ 9.50$; mutton, heavy phaccass, per cwt, per $\$ 8.00$ $\$$ sping lambs, each, $\$ 6.00$; yearling lambs, per cwt hogs, light, pen cwt.. $\$ 8.60$ : "wt.. $\$ 10.00$; dressed 800 - dressed hogs, heavy Butter.--Best dairy butter in pound rolls in good enovated butter was on exhibition. A sample of Quebec consignment. It was ngt for sale, as the ex it Eggs.-New-laid eggs, , warranted, in good supply from 12c. to 14c. per dozen.
price at which cheese is good business considering the and stocks held are now now selling. Market stead Can anyone explain what at 133 c . per lb . Cheese have together in price, as they have been rumning logether for the last six months
ff faratoes. - Prifes about steady at $\$ 1.10$ per ber drack at Tormers' wagons, 'and car lots at $\$ 1.00$ per bag on Apples. -60 c . to $\$ 1.25$ per barrel. Choice dessert Blenheim. Greenings and Glori Mundi, $\$ 150$ porth Spy, Kings are quoted at from $\$ 1.00$ to $\$ 2.00$ per barrel. Poultry is extremely scarce, prices high. Turkeys \$rom ${ }^{12 \mathrm{c} .}$ to 18 c . per 1 b .; chickens scarce, at from $\$ 1.25$ per pair; ducks are particularly scarce and quated at from $\$ 1.00$ to $\$ 1.50$ per pair. A new

## Chicago Markets.

Chicago, April 14.-Cattle-Receipts, 4,000 ; steady; medium, $\$ 4.50$ to $\$ 5.00$; stockers and feeders, $\$ 3$ to $\begin{array}{cc}\$ 4.75 \text {; } & \text { cows, } \$ 1.75 \text { to } \$ 4.60 \text {; heifers, } \$ 2.50 \text { to } \$ 5 \text {; } \\ \text { canners, } \\ \$ 1.55 & \text { to } \$ 2.25 ; \text { bulls, } \$ 2.50 \text { to } \$ 4.40\end{array}$
$\qquad$ $\$ 2.50$ to $\$ 4.40$
$\$ 4.60$ to $\$ 5$.

## British ('attle Markets.

London, April 14.-Live cattle steady at 12c.


## Montreal Markets

Montreal, April 13.-Oferings, 175 cattle, 200 Prime 40 sheep, 12 spring lambs and 25 store hogs and common, $2 \mathfrak{q} \mathrm{c}$. to $3 \ddagger \mathrm{c}$. . Medium, 3 kc . to $4 \neq \mathrm{c}$ Sheep, 3 c . to 4 c ., and yearlings, 4 c . . to 5 kc . each weith hogs, $\$ 5$ to $\$ 12$ each; fat hogs, $6 \frac{1}{4} \mathrm{c}$. per per

## Late Export Cattle Report.

 sold at eter prices $\$ 1.75$ demand and everything choice lot The caing trade to Cmbargo at Boston and Portland is driy Iast year carried 4,900 cattle ine Elder-Dempster Co. booked 24,000 head, or five times line, has already 45 year the rate was 35 shillings, this year it year the rate went to 50 . Sthillings, thls year it opened at
45 and wrence facilities will be


THE FARMER'S ADVOCATE

FOUNDED 18 fi


- Be cleerful. Give this lonesome world a smile,
We stay, nt longeast, We stay, at longest, but a little while ;
Hasten we must or we shall lose the chance Tosten we must or we shall lose the chance
Be giveet hente word, the kindly glance
Bo swit tender-that is doill Be sweet and tender-that is doing glance
Tis doing what no other mond deed could:


## Mollie as a Reporter.

the "all british ," Coporter. It is certainly N N
Cand
Castadian in Erigland
just now, whent th e Canadian in Ergland
just now, whent the
word Canada is upon
so many, lips $;$ when
tueetings, public hen
 semi-public, in
drawing-roons people of sociul an are arranged standin view to promote emi gration io its hospi-
lable shores, and whin the daily panens when the daily papers give
facts and figures which cannot fail to con
innce the most in credulous that Canada can olier advantages
far and away beyond har and away beyond
those of any ot her colony to the vast
growing nu mbeis
whose ejes whose eeses are turned
to some con ner of the
 as a future home tor
thenselves and families. At on o such
gathering, Mrs. gathering, Mrs, Lloyd
and Miss Woolmer, the
Secretary Secretary of the
Women's Branch of
the C Boll the Colonial and Con-
tinental Society, Eave in detail the very interesting account of
the newly lrojected,
and now almost coor pleted, shene for
colonizing the 1 it rye
col block of land in the Which they grathic:

$\qquad$
March," they said,
a pilgrimage or 3 ,
avo people, chi enly
men, but also
women with children,
each with enough for down to baties in arms,
and and rent registration fee and a month's provision, as a minimum, fee,
nuigrate to Canada ; after four days on the Coil dian Pacific Railway they will reach on the Canaand in waggons or aioot go up the trail to the and is it a most beautifull refion, little clearing. cold as Manitola, becanse it is in mone slatherly som the Rockies. The conernment hat. themsen :"
 sectlement is made in adry adition to the when when
ready cone out ready gone out, more will be nected for teanhers 4 newd wives for the mahing of theng colonist

Ontice of us having orcasion to wait in the outc
Watched with interest Comissioner for Canada
wat Watched with interest the steady flow of enguirers.
who cord and those other patriotic women
 ing that the right kind of information so widely National Council of Women, of branches of the and judiciously circulated has borne rood fuit Red Cross Society all over the Dominion weeding out the undesirables. The Steausliit nat iot a mother sought to keep back her sin Companies have to increase their number of lover, when he brother, Hor a Canadian girl hee Workers to keep up with the increased provision Her final words were these. Was sounded." Canada, a,nd every philanthropic organization in been 'home' (we colonists always call Great England and in Canada, formed to promote the Britain 'home'), I note how difficult it is for the meerests of women, lends a hand, directly and in- when taling on im eye to get into proper focus march of the mothers, sisters and the onward cannot take in its immensity, whilst amada. It desire to go with thensters and daughters who of us may feel a litule bit distunst, perliaps, some may be the result of the large proportion to what Settlers coming to Canada from the United lump of democratic leaven into our loyal boming ion to be quite wholesome for it, yet "it is selfinvasion from the Western States thas Ameerican vincing argument in favor of the 1 rritisth a conment," and a direct testimony to the supmoriority note of some of the addresses borders. The keyfemale emigration has beenses that the sublject of has done, women may do," and therefore, that

forbiddén abound.
good common se daunted by little difficultiotermination in her lot with us. If thinks, need fear to cast last letter of the words of high praise duan, women which were elicited by Lauly Almahe Cols personal tribute to them at the meeting at - 10th February last. Her story of the capaCumarlian girl who, as by a foiry wande capa-
$\qquad$

Tscli into cook, parlor maird, and then Miven by the Canadian lady, "
Advocate," who was homore to take part in the discussion: gone back to to the beginming of nstances of the heroism and self-
women of Camada's impery vomen of Camada's piomeer days.

in-dressed hostess in the evening, , has
to quote a few words from the
(i.") "mominsed to quote a few words from the-w. wnwsingChan: Wh. When or ealeda's piomenar

APRIL 15, 1903
he microscope. Similauly
tary tract with precisely the sough the "Hlimenhas also been found, from numerous experinimity absorbed from whole wheat or Graham-floup food as from white. For instance, a number of peoplo physiological chemical methods, it was accurate on the average 85 per cent. of the protein and 97 lour is digestible. In whole wheat 80 , white ent. of the protein and 94 per cen.t. of the arbohydrate is digested; while in Graham brea ent. of the carbohydrate is digested. and $88 \frac{1}{2}$ per Obviously, then, anyone who sass that "white
bread is poor food is simply ionorant of the sole hread is poor food is simply ignorant of the sub ject in question; experimental evidence proves shment to the body than Graber cent. more nour nade from the whole wheat not bread, which i ranny particles, by irritating the inte so, but the and thus promoting peristalsis, hastens other foods oo rapidy through the intestine, so that com able loss occurs. Of course place, and consider of the alimentary tract this increased alfection. is of benefit, and many people take brown bread for this reason. As with every other food, eat what agrees with you; it is literally a fact that A great deal is marde of the loss to the sysiem of the calcium, iron and phosphorus salts, which are undoubtedly present in the bran. But no one has as yet proved that we require abnormal quan-
tities of these salts, and since they are oatmeal, breakfast foods and, in fact, almust natmeal, breakfast foods and, in fact, alrnust called loss is immaterial
$\qquad$ something more than a name; within the past fifteen years a great deal of work along the line of metabolism and food investigation has been Domestic science is a direct result of laborious laboratory investigations; let us hope that it has come to stay, and that dyspepsia and such kindred ailments, directly due to lack of knowled ce of the principles of cooking and nutrition, will, hence, be things

## Little Bateese

How busy you're kipin' your poor gran'pere, Chasin' de hen aroun' de hay W'y don't you geev' dem a chance to lay?

Off on de fiel you foller de plow, Sickin' de dog till dey jump de wall So de milk ain't good for not'ing at a
An' you're only five an' a half dis fall, Too sleepy for sayin' de prayer to-night Never min'; I s'pose it'll be all right,
Say dem to-morrow $n$ the Fas' asleep in a minute or soAll' he'll stay lak dat till de rooster crow, Den wake us up right away toute suite Lookin' ior somet'ing more to eat.
Makin' me t'ink of dem long leg crane. Soon as dey swaller, dey start again But see heem now lyin' dere in bet if he at de arm underneat' hees head bet he'll be stronger dan Louis Cyr ' beat all de voyareurs leevin' here

## 

 Norn bew heom notat boater ore Th ne menor lees row tounteront on men


 ..... and

THE FARMER'S ADVOCATE

THE QUIET HOUR

## The Easter Message.

## The precious Lhingrs that I may teach

 And wing my words, that they mayThe hidden depths of many a heart,
The Easter message of life from the dead proclaimed in the glorious springtime by every wonder grass, by every leaf and flower. No Easter Day, for we all like to be thing new o " $i_{1}$ the fashion." The old be to some exten new its youth, coming out in acms to green, and very soon the orchards winl burse al a display of blussom, putting the tourst irto into the shade. The earth faithfully declat Caster message :

> She renders for each scattered or seed,
And to her Lord, with

Gives large increase ;

## hus year by year she works unfed,

Are we as faithful? God never reveals Him All mature is eagerly the sake of that soul alone committed to it. The first messages on the lif omb was to the women: "Go, quickly and tell
His disciples that He is rison ", departed "quickly," and did ""run" Recause they heir wonderful message, they were rewarder seen their risen esus met them." They had no vere eagerly spreading the before, but because they they had only heard, a much fuller revelation was granted them, and this also they were to pass go others: "Jesus said unto them, Be not afraid

Happy who so Christ's word convey,
rhaps you are like those women. been often told the wonderful truth that He whe proved His love by willingly enduring insult, at hand. You believe this, because you close faith in the people who have taught you hav have mav be that you have not yet heard the Master's voice calling you by name, and have not seen Hirm plainly with the eye of faith. Sow the seed you
have, and it will surely be increased have, and it will surely be increased. Don't be
satisfied with a little money given for missions do mission work yourself. If you cannot tell out the Faster message to anyone else, there are always children to be instructed. Teachers are
wanted in our Sunday schools, there is plenty of wanted in our Sunday schools, there is plenty of Soll there, but every teacher should go directly to
Christ for his seed. The first recorded Easter command given to St. Peter was : "Feed My lambs." The children are His, and He will call us to account if we neglect them.
Even Mary, who loved her Lord so dearly that "she was last at His Cross, and first at His "she was last at His Cross, and first at His
Grave: staid longest there, was soonest here could not rest till she were up to seek Him;" even she was not permitted to stay, clinging to her Master with adoring worship, but was sent like the other, women with a message to His The two disciples who, on that same great Easter Day, listened with byrning hearts to the mysterious Stranger who walket with them to Fimmaus, lost no time in spreading the good news that the Lord was indeed alive. "They rose up
the same hour," although it was evening the same hour," although it was evening, and salem, "told what things were done in the way, and how He was known of them in breaking of bread." Do we seek to know Him more, and more fully in the "Breaking of the Bread ?"
The Apostles constantly proclaimed the "Resur rection." When Festus tried to find out the reason for St Paul's imprisonment, the only
crime of which he was accused was that of affirming that Jesus was alive. As Festus said, in explaining the case to Agrippa, there can be no
doubt about the death of Jesus-it is a fact of history, which no one can deny, that He was crucified-yet nothing could shake the Apostle's
witness to that other glorious fact that He is witness to that other glorious fact that He is
most surely alive. Is not that the question to-day? The Man gradually conquering the world, died nearly two thousand years ago. Some may agree with Festus that that settles the muestion: for if He
died how can He be alive? But it is our business, if we are real Christians, to tell the world Tothans you may ask why 1 , who have such Rnon opportunity, do not talk more about the ness that I have scarcely written a "Quiet Hour"
ways. for we cannot but speak the thin whin of one thing, though, the must be carefur Humbug, cant and hypocrisy we do not to opp cause of Christ than any amount of ta opposition. When He trusts us with a messare let us deliver it faithfully, neither adding to it nor subtracting from it, and then go to Him for certainly give as soon as we are ready and able to receive it.
ame and communed with that mighty King,
nd told Him all my heart.

$$
\begin{aligned}
& \text { Now will I turn to my own land, and tell } \\
& \text { What } 1 \text { myself have seen and heard of The }
\end{aligned}
$$

$$
\begin{aligned}
& \text { What } 1 \text { myself have seen and heard of Thee, } \\
& \text { And give Thine own sweet message, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Come and see ! } \\
& \text { nd yet in heart }
\end{aligned}
$$

With Thee heart and mind for ever dwell
With Thee, my King of Peace, in loyal rest
Within the fair pavilion of Thy Presence bl


My dear Guests,is the song of the grass at this season of nature,' awakening. How it steals softly in, filling all orner ! Io we think often enough every quiet crats, for this hould to the Giver of all good kits, for this humble and unobtrusive member of
His vegetable kingdom? by many
reel and enjoy its presence without realizing by itse the pleasure comes. The eye is soothed green is the cor encouraged, for seldom pause to consider onolizes hope; yet we so all men ; the great word-painter Ruskin Not us: " Gather a single blade of grass and ells shaned for a moment, quietly, its narrow, swordand judge whether of green. Think of it well, that beam in suminer and gorgeous flowers goodly trees, pleasant to the eyes strong and food, there be any by God more highly graced by man more deeply loved, than that narrow pcint meadow grass that plorious enamel by the of ground by soft and countless und peaceful spears." We experience a thrill of joy when we read his therds, and find that he has voiced our feelinggift of expression before us the picture of imagination bings covered with verdure: the "unshorn fields slopes less and beautiful," the prairies; the level, velvety old-fashioned one grassy mounds in dead; the country hes and that cover the quiet waste spots and corners of the husy, and all the the "soft and countless spears" have henutified What a lesson of life may be learned from this humble at powerth pat of the economy of We are tempted to recret that of in a monotonous round of commonplace spent Among our acquaintances or friends we may find brigh whose lives seem lacking in the beauty or we not noticed sometimes that them. But have missen when removed from us The are mose humble, simple, but useful, have the bouly of she fuict grass, which makes plensant the waste "Belle."-Your letter came just as this burdet In course of preparation. I am afraid the subject you could bo would read rather tardily by the time result
$\qquad$ brighten an occastonal, otherwise dull, hour. Come The ourzile compertitions will not close until May 10th, so there is plenty time to begin even yet. Try it, everyone. You will Ingle Nook Chats Pake HOSTESS.

THE FARMER'S ADVOCATE
Founded 1866

Who Loves the Trees Best.
" 1 " said the Spring.
Their leaves so benutitul
To them I bring ,"
Who loves the trees
I give them blossoms
White. yellow red.;
Who loves the trees best "I," said the Fall.
give luscious fruits,
Bright tints

Who loves the trees best
•• I love them best." Harsh Winter answered " I give them rest."

The Women on the Farm
Womankind may be divided into two classes those $)$ who live in towns or cities, and those who
live in the country. peculiar advantages, though at firsst sight it own may
seem as though the former possess the greater seem as though the former possess the greater
number. A closer thought, however, will show number. A closer thought, however, will show
that the woinan on the farm can lead an equally thappy life, if she on the farm can lead an equally
kake use of the advantages
within her kappy life, if she will make use of the advantages
within her reach.
But therein lies the trouble. The average farmer's wife does not accept the chances for increasing her happiness. One by one
she lets them slip past, intent on her many she lets them slip past, intent on her many
duties. She certainly has to work very hard, duties. She certainly has to work very hard, strength; and doing them, too, in such an un-
complaining way that seldom is her labor appre ciated at its real worth. In this way she makes the mistake of thinking that for her, life means rest. Day after day brings the samerter ones for routine, and gradually life narrows down to circle of never-ending duties, with little pleasure or recreation. Not a pleasant prospect, and yet a true one in many cases.
But all this can be changed by means But all this can be changed by means of com-
mon sense and determination. Life was never
intended mon sense and determination. Life was never
intended to be spent by any one wholly in toiling.
Happiness can be tad necessary is it for the farmer's wife to seek earnestly for it. She must remember that work important requiring her attention, and amally them comes first the enjoyment of as many pleas ures as she can obtain; and they can be found in the country as well as in the town. There are various ways by which the woman on the farm
can make her life more joyous. One is by taking can make her life more joyous. One is by taking
good care of her health and saving herself much as possible. This is her first duty to he husband and children, and in accomplishing it she needs all the help she can get. There is no rea where circumstances allow in many farmhouses tions and labor-saving devices which would men rially lighten the housework. The practical farmer prides himself on keeping up with the times in the implements he uses. Then why should not
his wife do the same, and thus lengthen her life his wife do the same, and thus lengthen her life
by years? Let her see to it, then, that attention is persistently called to this matter, until the desired results are secured.
Then, again, it is a good plan to keep in touch with the outside world as much as possible. This can be done, no matter how remote the section, and a monthly magazine. In these days of cheap printing, the best ones can he had at reasonable rates, and money spent on them is wisely in-
vested. So, too, with hooks which, when rightly chosen, bring happiness wherever the time by letting something else go now and thate Lastly, there is the virtue of hospitality, which
can be practiced on the farm in winter as well as can be practiced on the farm in winter as well as in summer. Why not plan an occastonal sorial
gathering, invite a fow of the moightoring women over to tea, and have a pleasant time tomenher?
Only extra work, perhans, won think
 other ways, life in the comites can lin witumin! an
brighfened. brightened.
Iike everyone else. howerar, the woman
farm farm must early decide for herself what thines
life are really worth while. She must choos ween the trivial and the importanst and aim

In these and in many other bessings the woman she will but make an effort to gain and share, if best rewards of life-iov and hampiness
$\qquad$
THE CHILDREN'S CORNER
Good Comrades


St Easter, my children, I always feel young Said grandpa one day, as he watched Dick and
Who were frisking about like kittens at play,
Or lively yound chickens just

Oh, won't you play marbles ?"' cried Dick in deligh But grandpa declared he'd a "bone in his back," And dared not stoop down as he feared it might break Shall we teach him to skip? Oh, won't that be fun! And grandpa ayrreed to his favorite's plan, Remarlink, "You won't make me jumplaigh, I hope.

He caught up his coat tails and merrily skipped,
But at faster and faster the swift rope went round
But grew tired, then stumbled and slipped Falling flat on his back full length on the ground.
le couldn't get up, for Nell's soft little cheek Was pressed against his, as she said in his ear,
Your skipping was grand! What a darlipg you are

A Wonderful Dinner.
ald-fashioned story, so to-day I will tell youl old denoese legend. so to-day I will tell you an A great many years ago there lived a bich Wery rich man is not-for he had the best cook all Italy. Perhaps you think that such a goor
$\qquad$
$\qquad$
$\qquad$t he could serve up a leather shoe in
ute, but 1 am sure little Zita was far
and the great Citronius Ostendius was expected t terrible punishment if the banguet failed to To do his guest. Zita trembled, but determined under-cooks to peel vegetables, clean fish and wash dishes, but she never trusted anyone else to do the cooking.
early to market, sions. She had told the under-cooks of proviready, and as it was early she slipped into ting all pray. She prayed on and on, forget ting all about the dinner, until the roof seemed oo open and thousands of angels in dazzling white through a sky of clearest blue. wings outspread on and on, while the sun rose higher and highed and then sank to rest in a bank of golden clouds When Zita at last opened her eyes it was almost out of her wits she rushed home, almost frightened nearly time for the grand banquet do it was and she had not even begun to cook anything Hurrying into the court-yard, she found her assist ants-the vegetable-cleaners, the plate-scrapers and the bottle-washers-all fast asleep on the benches
with their ladles knives clasped in their hands. " Alas !"' cried little Zita, "they are all tired out with waiting so long for me !",
She tried to open the great folding-doors the kitchen, but they were locked; and through the keyhole came the most delicious odor, as o more frightened than ever, for she felt sure that her master had engaged another cook, and that She was locked out of her dear kitchen for ever dining-hall. glittering with magnifice was beautifully set bright with flowers, and lighted with thousandes candles.
the banquet," said Pomponius; adding "It smells like the best dinner that ever was cooked." heard her master say to his astonishment, as she is the best cook in Genoa, and I wouldn't Zita with her for any number of gold pieces.'
the great doors flew the court-yard, and suddenly with a cloud that looked as if the sumset was filled in there by mistake. It was a beautiful mixture about were blue, touched up with gold. Flying caps and aprons of busy little figures in white spoons and knives. They all vanished golden ment, and then the under-cooks woke up suddenbeautifully cooked dinner as though nothing surprising had happened. Such a dinner as it was! might ! of course 7 ite Genoa, and well they confess her careless neglect, but no one would be neve her. Pomponius praised his little cook he knew he had ; but he did not set her free, for it. She did not reasure and intended to keep ever after; but ever since the day of that wonderful dinner, the patroness of cooks has been little
Sinint Zita.
COUSIN DOROTHY

## Courtesy at Home

home. The days are past when children used at where they were and parents entered the room permission to sit. But the mistake is now mad usually in the other direction, of allowing small boys and girls too much license to disturb the peace of the household. I think the best wa owards children in courtesy would be to observe go so far as to say that we should. I woul much a point to listen to children without it as cespecting them, and to answer them sincerely and deed, many of their wise grown up. And, in better worth listening to quaint sayings are far commonplaces of the morning caller: stercyped cender the uninterrupted chatter would be to sur ender the repose of the household, but it is very be silent, are themselves respected, to teach then , thers scrupulously to respect the convenience of The best brought up family of children T eve Kew were educated on the principle of alway letting silence the the it was possible to do so,and which was not teally serious of any wrong-doing "hich was not really serious. I have heard the failed to sav any word of commend mother ha some social occasion, ask as anciously as pos sible, "What was it, mamma? I know some children well. or were we too noisy?" In that only commendation, of whatever it was possible

APRIL 15, 1903
 amily cow, should not fail to attend calves are handsome and promising heifer o make good workers in the dairy, as n both sides of theirght lines for this date of this sale is favorable to buyers, Winter feeding being past and the prospect bright for early and abundant
pasturage. The location of the sale is onvenient, being only six miles from
con London and close to the village of Lambeth. The whole will be sold without eserve, the owner having sold his farm are in preparation, and will be mailed on application, which should be made promptly to Mr. J. W. Humpidge, Lam-
beth, Ont., as the time is short. beth, Ont., as the time is short. An important event announced in the ad.
auction of the fine herd of Shorthorns belonging to Mr. W. J. Shean, of Owen Sound, Ont., to take place on May 8th.
The herd comprises 30 head, including the noted stock bull, imported Marengo's Heydon Duke ( 77200 ), now in his three champion, Marengo, winner of seven championships, who was sired by Scottish Archer, and out of Missie 118th,
by William of Orange. The females, of which 15 are cows, bred to the imported stock bull, and five having calves at Abel, Golden Conqueror and Baron's families as of Cuch popular Scotch-bred
Arimson Flowers, Minas, Augustas, Primroses, Polyanthus,
Strawberrys, etc. Augustarys, etc. The choice red cow, Augusta 4 th, purchased from 3 rr . W. D. D
Flatt, are included in the sale, and the winner of the championship at Toronto IXlibition last year, a son of Spicy
Robin, dam by Hich Commicsioner and yrandam by the great William of Orange The pure Scotch-bred four-year-old in-
ported cow, Miss Primfose, bred to $\operatorname{Imp}$. Marrngo's Heydon Duke, and due to
calve in June is cilles two beautiful heifers and two be be bulls, from eight to twelve months old (1vell by the imported stock bull. The fecting of this sale is opportune, winter
well
over and a grand
 Trom Toronto and the G. T. R. from Rontiond and intervening points. Capt.



THE FARMER'S ADVOCATE

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 REGINA, N.-w. terf.. oan.

THE CYCLONE SWEEPS THEM ALL.


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$Y^{O U}$ may borrow any with which to buy home, a farm, or pay off a mortgage, and re pay same in 20 years, o less, by small monthly payments, with absolute ly no interest. Write for book giving ull particulars. We send it free on reques.
LOAII \& SAVIIIGS CO.,
 20 St. ALEXIS STREET. tocal managerrs wantipio.

GOSSIP

- Mr Hem the Minn., on March 31st, 34 females an average of \$336, 4 bulls sold for an average of $\$ 422$, and the 41 head sold sold for $\$ 600$ to $\$ 610$ each. Five females bulls for $\$ 500$ to THE ISAAC SALE

SHORTHORNS
Shose who have seen the 45 imported Shorthorns advertised to be sold auction by Messrs. Geo. and John Isaac at Markham, Ont., on the 13 th of May, agree that they are a grand good stitutiost type, full of character, con weathon and quality, and carrying A capable Julge, who wits all the importations of the seen Isaac, gives it as his asinio that a better lot of heifers never stoo in the homestead stables, tainly saying a rood deal The catt have bean carefully and well secta judiciously fed and cared for fore, are likely to do il 1 , there whose bul they int females nud five yo blo fort cataloure Only one hin in over four years one or the remales is two-year-old heirurs in eats or hare calven fors, in calf or having dum ant are we imported Scotland. Most by high-class bulls i bred to the Cruickshank Nompareil bull, Nompareil Archer, bred by Mr. Bruce, of Heather Archers ( 71240 ), dam Nompareil IBlosso hy Sittyton Sort. This young bull is ever secures him at a stock bull, as his brecting is it the purple and he is, in-
dividually: excellent in his showing lots of character and quality he was the best of Mr. Bruce's bull calves ot her excare, and hous mone on well. An Whick-fleshed, is Everlastiner fown ath Sarch, 1902 , bred by Mr. Durno, and out of Eleanor, by llustrious ,rell bull, calved in Aprail, a roan, Brucely. Radical (5essf), is another of
sterling character and quality which may depended upon for a sire.
Mention may be made of "few of the

## IMPORTANT DISPERSION SALE OF Imported Scotch Shorthorns

At the Village of
Markham,Ontario,
on the Midland branch
of the G. T. R., 22 miles from Toronto, and three miles from Locust Hill Station, C. P. R., on

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May 13, 1903


She entire herds of Imported GEO. ISAAC, Bomanton JOHN ISAAC, Markham,
consisting of
$\qquad$
All young and in prime breedin condition. These cattle were sele ed from many of the best herds in Scotland, and many of them will of breeding age have been bred to first-class Scotch bulls. This is
such an opportunity to secure imported cattle as will not secure

## JOHN ISAAC.

Conneyances will meet mornin
trains at Locust Hill, C. P. R.

DISPERSION SALE OF REGISTERED SCOTCH-BRED

## Shorthorns

rosevale stock farm, omen Sund, Ont,

FRRIDAY, MLAY 8th, 1SOB. The entire herd of
30
HEAD of HIGH-CLASS SHORTHORNS

## Belonging to MR. W. J. SHEAN

Ineluding the stork bull, Imp. Marengo's Heydon Duke, son 1 such tuled fatuilies as Crimson Flowers, Minas, Primboses Mgustas, "l: 17 cows bred to Imp. Marengo's Heydon Duke: heifers and 2 young bulls, by imported bulls; also a numbere of Sale for convintence at 1 O'0locis m.m CAPT. T. E. ROBSON
W. J. SHEAN,
owen sound. ont

Rover of Sanquhar (75689) and the latter by Pride of Lancaster and $(77655)$
These combine rich breeding dividual merit of a high order. type is the red two-year-old, Flora Nonald, bred by Mr. Watson, Auchronie Alpine ( 60695 ), dam Flora 5 th, by Nero.
One of the the sale is the five-yeat-old Cruickshank Orange IBlossom cow, Blossom 2nd
(imp.), sired by Sityton (imp.), sired by Sittyton Style (69616),
and her dam by the noted Star of Morning. She is a good, thick-fleshed cow,
of fine character, calve before the sale. issue of other worthy mumbers in the the general character of the indicate which, it will be seen, is of no ordinary
description, and reference description, and reference to others may
be looked for-in our next issue meantime, all interested willl do well to
apply for the catatorule apply for the catalogue and study its
contents. As an evidence of the interest taken in this sale, it may be mentioned
that Mr. Isaac received a number of al Wications for the catalogue bebre his
copy of the "Advocate" containing the advertisement reached hlm. lustrated on another gian stallions it sured by our agent, who has seen the
herses, that the photos by no means do herses, that the photos by no means do
them justice, as they are handsome, wellproportioncd, heavy-bodied, with snappy
action and excellent fot Hriting of them, the Baron de Cham-
plouis says: ". These hor plouis says: "' These horses must be
sold to make room for new spring ,ortation, prices ranging from $\$ 600$ to animals, All ferfectly acclimated. Pull-blooded great action, lightness on feet, no long
hair feet; on legs, extra good, high and dry gentle and kind; ; all broken for harness;

## IPRIL 15, 1903

## Churn, Churn!

aill hing wimpar flake of it dissolves quickly -youll griity particles in in the gutter. beccluse in the<br>butter. because $W_{i}$ sor Salt is all Salt.<br>Windsor<br>Salt.

Best grocers sell it

## BinderTwine

 HARVEST OF 1903.
${ }^{\text {YHIS COMPANY has again set its }}$ harvest of 1903 . Thiner for the said we lead the way. The duty of every intelligent Canadian farmer in this deal is easily defined. For ten years we have put up a good fight
in the einterests of co-o have 甜solutely regulated then, and charged you for Binder Twine in every locality where we have made a shipment. If you want us to continue this same deal, give us your Don't order or buy a single porand twine from any other concern until you know this Company's is actually exhausted. If we fail to have a farmer agent in your district, give us the name of a good man or two appointment.
You have it in your power, as
Canadian agriculturists, to say whet Canadian agriculturists, to say wheth-
er this organization is to continue er this organization is to continue
or not. No other element or oppoThe country is in down our standan Farmers, you are up against it. JOSEPH STRATFORD, General Manager NOTICE.
$\qquad$ of the times. the Sovercign Bank nada has openeen up still another
$\qquad$

THE FARMER'S ADVOCATE.


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A wheel is as useful on a farm as a horse-not so expensive, to begin with doesn't eat. It's ready at a moment's notice to take you on a pleasant jaunt to the post office or to your neighbor. It is city transportation in the country. Lately there have been some big improvements in the bicycle, principally the
hygienic

$$
\frac{\text { CUSHION }}{\text { FRAME }}
$$

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TVHIS CORPORATION has been formed for the purpose of dealing in lands in Manitoba and the Northwest Territories of Canada. Up to a few months ago practically the whole profit from dealing in the lands in the great western portion of our country had been
reaped by shrewd American investors, reaped by shrewd American investors, who realized the immense possibilities and the certain future of Western Canada, before we Canadians realized the immense heritage which lay within the boundaries of our own country. In the last months of the year 1902, however, the promoters of this Corporation, having, through the different financial institutions with which they are connected, been obliged to make a careful study of the profit certain future of the Great West and of the practically assured profit from an investment in Western lands, that they decided to form a company to deal in land in the Canadian West. With that end Big Quill Plains, in thething over 120,000 acres was secured in the known as The E, formed for the purpose Western Land Corporation, Limited, was stock of The purpose of acquiring and handling this block. The placed upon the January of the present yar, and within one month it was necessary tompt was the response that even then applications for a lack books, and But, from a shareholder's shand point the of, stock were refused. told. Before the sales of stock were stopped, part remains to be made with a large American Land Company, arrangements had been of the Company's lands at a price so price that the stock of The Eastern and Western Limited, is already a very profitable one and is held corporation, its present holders, and all this was done in thery firmly by (an any better proof be given of the wisdom of an one month. Western lands ?
was the time The Eastern and Western Land Corporation, Limited, several fully examined, but waitocks of land and were having the same care on the Canadian public the safety and profit of one operation proved kind. This has now been abundantly shown by the succeess of this Eastern and Western Land Corporation, Limited, and we have there fore no hesitation in placing before the public the stock of The Ond and Saskatchewan Land Corporation, Limited.
to realize that Canadas future in a great that Canadians have come ountry immeasublys in a beal the in comfort millions of people. Few in Eastern canada cap supporting progress this Western country is now making, and that before great
years the West will surpass the east in point of population. Immi are investing pouring in, and the people of the United States especially they know is immense sums in land and holding for the rise which in value. Invere the west are increasing rapidly profits. The Condin acres, as Northwest Land Cor for the previous year. Ta St. Paul, Minnesotar, The Saskatchewan Valley Land Company of a profit of some millions of one million acres of land in 1902, at ment Company of St. Paul, Minnesot The Haslam Land and InvestThe Northwest Colonization Comesota, sold 300,000 acres in one year ; 500,000 acres, and if to these he added the St. Paul disposed of over and Manitoba Governments, the Canadian lands sold by the Dominion companies, syndicates and individadian Northern Railway and other the immense advances this Westerns, an opinion may be formed of The Ontario and Saskatchewan country has made in one year. purchased a large tract of land in what is kiorporation, Limited, has District, in Western saskatchewer in the West that the most fertile belt for fore in the world, is situate in this and therebetween the Battle River, to the south, and the Sash lies along and north. In this fertile country we have the right saskatchewan on the of specially chosen land, and our selectors carefully examining the land section by section now in the district along and between the Edmonton extension of the Cand will lie Railway and the transcontinental line of the Cana Canadian Pacific way, thus assuring to settlers the immense advantage of Northern Raillines of railway, each within easy access to their farms on competing For soil, water, timber, fuel, grass and hay this and to markets. in the world, and these points are what determine the settler unsurpassed land. Our land immediately adjoins the Barr settlemer in choosing settlers, and also Dr. Adams' colony of Nestorians, 0 ver 20,000 settlers by these organizations in this district placing of next year practically assures a rapid increase in the value within the No lands are purchased by this Corporation value of our lands. and capable report by the most experienced land selectors in a careful and thus practically every element of risk is eliminated from an investThis is an invest or company.
public, as it investment which should especially appeal to the Canadian the risk so often run in inctical certainty of profitable returns without hazardous nature in investing in companies doing a business of a their own country and its futurestiment which Canadians believing they are helping to develop their may make, feeling that in so doing

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 ansen Applications and also the large prospectus of the Company should be addressed to forwarded.

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 the farm, at the Village of Lambeth, 6 miles from the city of London, OntWednesday, April 29th, 1903, my entire herd of
31 HEAD of HIGH-CLASS JERSEY CATTLE 27 females, 15 of which are in milk, and 4 young bulls, all registered in the
A. J. C. C. Herd Register. These cattle are richly A. J. C. C. Herd Register. These cattle are richly bred, being of deep-
milking and large butter-producing families, and are both handsome and of
strong and vigor strong and vigorous constitution. Besides, and are both handsome and of
number of beautiful young heifers in milk, there are a number of beautiful young heifers of great promise.
A. M. HUNT, London.
A. M. HUNT, London.
J. W. HUMPIDGE,

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IMODSE Jaw land agents.
The prosperous town of Moose Jaw is centrally located in Assiniboia, 399 milles west of Wimnipeg, on the main line of the $\mathbf{C} . \mathbb{P} . \mathbb{R}$ Land in the district is a heavy clay loam, exceptionally well adanted for wheat growing. Everyone here has a prosperous, well-sat isfied air, and all are evidently comfortably located and enjoying plenty of this world's goods.
A deplorable fact in connection with this great Northwest is the lack of progressivemess among our Ontario falmers in taking advantage of the many openings for successful specullations. It is a commmon saying among the land agents in the West that an American will have invested and made a profit of several thousand dollars before the Ontario ma n makes up his mind to buy. A great difficulty with eastermers is that we cannot readily grasp the situation which places clioice land at such low prices. We do not stop to consider that mot many years ago our Ontario land was very cheap. The American speculator int many instances comes into the Canadian West and deprosits his money at the order of a reliable land agent, who buys to good adVantage, and often the land
is tumed over and an lange is turned over and a large profit made by an owner who las never even seen the parcell of land whiceln was loought for him loy the agent.
M. J. Jacobson, of Wheatonn, Ninnla, has a lorancll oflice in Moose Jaw, andl during the past year has located over 300 settlers in Assiniboia. He also had a special train of 85 cars leave Wheaton on April $\%$ for the Moose Jaw and Weyburn districts, and in May -30 more cars will leave the same place. Mr. Jacobson is the Candalian Government agent in Western Minnesota, and locates homesteads in Assiniboia Hee of charge
G. M. Anmable is a progressive Moose Jiaw land agent and livestork dealer, Who hat dome betsiness in the Nistrict for eo years.
Mr. Anmalule is president at Mr. Annable is president of
the Moose Jaw-Saskat the Moose Jaw - Saskateh-
ewanluand ('o., whic•h owns a block ot - ()000 owns north of and immediately aljoining the townof Swit

Current. This black con tains some fine graping and Wheat lands, and is watererd by the Saskatchewan and Sivift Currentrivers. He is also agent for several par'cels of choier private lands J. R Gre
J. R. Green, an enterprising land dealer, has been in business in the Moose Jaw district for 14 years. Mr. Green came from Middlesex county, and has travelled Cell over that portion of Collada west of his native county, and he expresses is op thion that Moose a aw is in the best agicultural district he has yet visited. his form and brothers have farmed here for 15 years, and have had splendid returins. He expects to start a steam plow to work about the first of May.
d.i. Kern recently erecteda fine hotel in Moose Jaw. the public, inder open to of The Brunswiel Kern has resided in. Mr. Jaw fol ten yearg in Moose awror ten years, and owns wheat land near of good and along the Soo town the $C^{5}$ P He will of this land at He wir sel nin ensy terma.

## Brunswick Hotel, Moose Jaw <br> J. H. KERN, Proprietor.

Choice Wines, Liquors and Cigars. First-class accommodation.
JNO. R. GREEN,

## LANDS. <br> MOOSE JAW, N.-W. T.

Has for sale some of those choice parcels of
lan, convenient to shipping point, of the price as are producing, year in and year out
an average of 30 bushols of whent under good outtivation. Will whend yeu pull in
mormation as to formation as to price, terms, etc. Don't start
for the Weat, look
have received a reply for land, intil after you
ت口R SAIT
FARMS
aeren of improven land in the Also 50,000
divetrict We can also locate yout ourrent
fiovern a free novernment homestead
(orrespondence solici
G. M. ANNABLE mOOSE JAW, ASSA
M. J. JACOBSON

FARM LaNDS INSPECTED, HOMESTELDS LOCATED,
FREE OF CHARGE.

We blocks, wis 50 io $\$ 7$ per acre. 20.000 acres improver. ind wild land. in
tharter and half sections. Write at once to M. J. JACOBSON,

What M. H. Gochrane Says About Zenoleum Dip: cholera M. H. COCHRANE, Hillshurst, Quebec



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## oossip

Following the orider of the day, Jas rrar, Shakespeare, Ont., has order-
change in lis ailv't. nud revort. is herd of Shorthorns as wintering Eplendidly. The first-prize heifer, Balt lechin Gem, has dropped a fine heifer ar. Scotish Itero is developing into a, grand bull. only one young bull is
left for sale, and he is a nice red fellow about one sear old is a a nice red fellow
great sale of sumported yorkSeventy head of selected Large Eavgish
Xorkshire
 at Hamitoon, ont., on June 25 th, by Dy Such will be the of anninilytrove, Ont halt-page advertisement of this firm $m$ the May 1st and following issues of the
In looking over the field of live-stock breeding, Mr. Flatt displayed rare judg Yorkshires as his specialty, and Large phenomenal growth of the demand for the ideal export bacon type of holution of fully justified the wisdom of his choice motto, with the conviction that "as his is none too good, and with the deter
mination to reach the first , securing the best breeding spared i able, and with this object the principa
herds in from time to time liberal selections of the most approved type for the require
ments of the trade in the country wer made, until a herd was secured which has made a prizewinning record un-
equalled in the time, in its class, on this continent, as the following statement herd divided into two sections. Messrs Flat won six out of ten first prizes for
Yorkshires at the Pan-American Exposition, and, at the same time, every first
at Canada's greatest show, the Toront Industrial, including the first and sweepstakes for the best pen of export bacon
hogs, against fourteen entries, the strongest competition ever seen in this class
in Canada. International Live Stock Show, at the cago, this firm won all the firsts in the Yorkshire class and the first for the best bacon carcass in a class of 100 entries.
In 1902 , they won all the firsts but $t$ wo In 1902 , they won all the firsts but $t w o$
and all the seconds at the Toronto Ex hilhition, and all the lives hut one at
the Western Fair at London. This is surely an enviable record, one of which any firm might well be pardonably proud in the forefront their herd prominently So great has been the breed in America. Yorkshires, not ouly from all parts of the Dominion, but also from the U. S. . that in the last 13 months they have
shipled over 200 breeding hogs acrosk the lines, where the merits of the YorkShires are fast becoming known and
where a great need is acknowledred for a change. the American breeds having blood grown weak in bone and constitution, an easy prey to disease, and non-
prolific to an alarming degree. The prolific Yorkshire mother that can carry
and care for a dozen youngsters and the lowkshie site that for crossing gives
lenuth and strength of constitution seem to fill the bill and are wanted in ever-
increasiny numbers. The obiect in holding the proposed sale shires and to meet in some measure the fomme demand for them. The presen

## THE FAFIMER'S ADVOCATE



## SUGAR BEETS.



GOSSIP.


FOR 320 ACRES
WHEAT LAND


Seed Oats, Speliz and Seed Potatoes for Sale




Regina, Capital of the N.-W. Early in the fall of 1882 , Regina was
decided upon as the capital of the Northwest Territories, and a town site was surveyed in Sentember, by Pearse, now Dominion Lands Agent at Caigary. The place was formerly known as file-ot-Bones Creek, a name derived about. From that present Regina has steadily up to the until now. it has a population of neariy
4.000, and is the immense area of country. It is situated on the C. P. R., 396 miles west of Winnipeg, and is the southern terminus Regina has some fine public .building ings, Northwest Mounted Police barracks, an Indian Industrial School, and a large
post office schools. The building, besides public town amounts to to 100,000 capacity of th
mashels, any elevan many elevators are located on the C. P
R. main line and Prince within a few miles of the city branc city is well located in the center of an
exceptionally good whent portion of which is immediately tributar grain and mity bed farmers, pho octina in ty grain and mixed farmers, who in the
majority of cases are well-to-do, and many of them are wealthy. The ${ }^{\text {larg }}$
yields of of wheat and coarse grains en
ble able the farmers to have a good bank
account to their credit. of the quality of the land and the re continual influx of settlers, the majority of whom are from the American side,
and who have recognized in Repina great farming center.
Farther away from the city, one tinds bunches ranches on arge There are ranchers who own 16,000 head 500 to 2,000 head, while the number horses averages in smaller numbers. horses ranches are not so cormon as are interested in sheep handle very large
numbers numbers. The rancher, as a rule, is a
". hall fellow well met," and spends money very freely.
Hany easterners are under the impres bearable cold, but such is not
the case. Althourh at times tho thermometer registers as $\begin{aligned} & \text { Athes } \\ & \text { low }\end{aligned}$ mind below zero, one does the atmosphere is very dit is rarely that Regina has as weather as this, and it is a peculiar fact that one can leave Regina at forty be-
low and not mind the cold in tho losit low and not mind the cold in the least,
but In a few days when he Ontario and finds it at about zero he is
ehivering with the cold to the dampness of the Ontario atmos
phere as compared wth that of Regina phere a compared wth that of Regina
Another erroneous idea entertained by some people is that this country of
which we write is still the "w wild and
woill Weat., wooly West." In regard to this phas
of Western life, we can only say that the law 1 well observed and enforced,
for the Mounted Police are very eflicient guardians of the laws of the country
and these men upon the excellent manner in which the preserve law and order in this
country, the Northwest Territories country, the Northwest Territories
Tersons desirous of learning pric land and securing other information not given in this article, would do well
write any of the gentlemen whose vertisements appear herewith
vast resources of this great wheate-crow ing and ranching district. It is only
by visiting Reging ing crops and the large bunches of stocl Idea we are enableg to form the faintes
die Regina's great wealth and whille qualities. or stock to vit terested in agriculture of Eden, for he will cartainly never
regret the cost of a trip throuph this
district in the harvest time crops which he can scarcely believe pos-
sible to grow, and he is temptal to stop and pin
dream
There
the time to huy for len, is rising price very fast. Free homesteads may aso be hac some distance from Regin homesteading hs hower carnce. A man can mal can get a permit to cut don dars, and Imber on Government londs fors
and classes of labor is in great demand is this true of girls who are willin

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belt in Manitoba. Two sections, each ine mile souar, cor-
tain 640 acres apiece. These are at Hamiota, a town on the liue of the C. P. R. with two chartered banks and
seven grain elevators. The description of the sections are

A beautiful piece of land. Fine wheat soil.
Very fine land, with the ot ik River running through it. Particu
Iarly good for mixed farming.

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 SOLVE THIS PUZZLE AND $\$ 200.00$ $\sqrt{1-2}$
$\frac{1}{4}$,
$y$
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equred for

THE EDMONTON COUNTRY.
Wheat is King, and the wealth o the world is wheat. It is not only the measure of riches to the majority of Western farmers, but it is wealth itself. The wheat crop is a commer cial barometer. Strange as it may seem, this parallel was as true four thousand years ago as it is to day. From the very fact that there was always corn in Egypt, that country drew to itself the poor who needed food and the rich who looked for opportunities. Just as the secret of the success and wonderful wealth of the Nile Valley four thousand years ago was its never-failing crops of wheat, so it is to-day that Western Canada commands the attention of the outside world with its bountiful harvests of No. 1 hard.
The region best allapted to the growth of wheat and other cereals is that district which, owing to soil and climatic conditions, can longest sustain the profitable proluction of the same.
While there is a marvellous similarity of soil throughout the great wheat belt, extending from the head of the Red River in Minnesota to the head of the Saskatchewan in the Rocky Mountains, there are, as already said, very considerable difference between the extreme southeastern part of the wheat belt in the Red River Valley and the extreme north-western part comprised in the western portion of the Saskatchewan Valley, due to the Chinook wind. The "Chinook" is the local name given to the warm, dry wind which clears the snows of winter, making an excellent range for cattle the year round in Alberta
The incontestable proof of successful growth of wheat is the existence and operation of flour miiis at various Thints thermghout this great distance. with are six mills in operation, all withun a radus of twenty miles of the
town of Elnmmon, drawing wheat

ewan. All these are roller process, and at this season are running night and day. Their product holds the local market against the keen competition of the great mills of -Manitoba, and competes with them in the common market of British Columbia.
Speaking in detail of the Alberta country, it might be well to mention that the slope of the country, from the boundary line northward along the Rockies, is shown by the elevation above the sea of the several towns lying almost on a north and south line. Cardston, near the boundary, is 3,700 feet above the sea. Calgary, on the Bow River, 160 miles north of the boundary, is 3,410 feet, and Edmonton, on the Saskatchewan, is 2,177 feet above sea level. The elevation of Edmonton is that of the country generally, while the river at that point is not more than 2,000 feet above the sea. Winnipeg, on the Red River, is about 750 feet above the sea. The Saskatchewan River rises in the Rocky Mountains, and, after a north-easterly and then easterly course, empties into Lake Winnipeg, near its northern end. The Red River empties into the southern end of the same Lake, while the outlet of the lake is to Hudson's Bay, by way of the Nelson River, which is the only break through the Laurentian region. Just as the most fertile sections of old Canada are located along watercourses, so we find the richest soil in Alberta and Saskatchewan along the mighty Saskatchewan. To place a boundary line on the Elmonton district, the furthermost point to the south is Ponoka, which is seventy miles south of Edmonton; the north boundary line would be the height of land between the Saskatchewan and the Athabasca rivers, fifty miles north of Edmonton; the points east and west extend to the outside of the setilement, which is extending day by day. The soil in this district is a deep, rich black loam, and is a striking and universal feature of the Edmonton district. The black mould is from two to three feet deep on high.as well as on low land. The subsoil is a yellowish clay, free from sand or gravel, and as capable of producing wheat as the surface mould. The rich growth of vegetation gives abundant and excellent natural 1asturage for cattle, and at the same time ensures plenty of hay for winter feed at the low cost of labor.
The growth of timber, both small and large, alteruating with open prairie throughout the district, not only gives a most attractive appearance to the country, but is of the createst utility at all seasons of the atr. Fuel, fencing and building iterial is ready at hand at only the

## THE FARMER'S ADVOCATE

The Edmonton Country-Continued, For fuel the Edmonton district has more coal available than any other coal area in the known world. Of course, it is not found every where, but it is found in so many places as to give good ground for the opinion that it actually underlies the whole district. The prevailing cost at the mouth of the pit is $\$ 1$ per ton, and delivered in the town of Edmonton is $\$ 3$ a ton. Timber sawn at local mills is sold retail at about $\$ 18$ per thousand feet.
Barley is a standard crop of the district, the yield is excellent, the crop assured and the quality firstclass. Nothing need be said of potatoes, turnips, beets, carrots, onions, cabbages, celery, etc , except that they flourish exceedingly and furnish cheap and good food for man and beast. Of wheat itself, the Red Fife is the preferred variety, and the average yield is shown in the teports of the Northwest Government to be the highest in the Territories, and the proportion of No. 1 quality is equal to that in any part of the Wheat Belt.
Of grasses, timothy grows well and is a standard crop. Red, white and Alsike clover have been produced in abundance, and grow well for one crop, but kill out the following winter. The principal wild grasses are red-top and blue-joint, but peavine also thrives.
An evidence of the favorable na ture of the climate is the abundance of wild fruits, strawberries, raspberries, chokecherries, black currants, blueberries, bush cranberries and many others. Cultivated small fruits grow without the slightest difficulty. Of these, red and white currants are noticeably very prolific. The hardy varities of standard apples, as well as cheeries and plums, will thrive.
In mixed farming, hogs and cattle play an important and remunerative part, while poultry also does well. In comparison of products, we find here the same condition as in Ontaria and Quebec.
The man with small capital and plenty of push, pluck and perseverwill find that he may become imiependent and acquire considerable wealth as a result of a few years' hard labor.
The town of Edmonton is undoubtelly the chief commercial center of the western portion of the Wheat Bult. It is the principal town on :" Saskatchewan River, and is the metherly terminus of the railway ystem of the continerit. It is the Wholesale center and supply point for Mackenzie River basin, a region nearly two thousand miles from Whi to south, by eight hundred from

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Edmonton Music Co, $\begin{gathered}\text { Pianos and } \\ \text { Eid } \\ \text { gans. } \\ \text { Singer }\end{gathered}$ mentage Bil Sewing Machines, Musical Instrin

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MERCHANTS in EDMONTON. Wholesale and retail. Grocery jobbing a,
cialty. Intending settlers, will be cherfull supplied wit
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## 

 Edmonton, Alberita.


tude, it may be safely stated that no other town or city in America is the undisputed trade center of such a large territory, and no other town in the Wheat Belt has such a large area of unbroken fertility immediately surrounding it. It is the commercial, industrial, educational, judicial and official center of Northern Alberta in the mere infancy of the sphere of commercial importance that ere long will burst before the world.
Situated as it is, on the transcontinental route of the Canadian Northern Railway, it will be beyond question a most important place on that line between Winnipeg and the Pacific Coast. Although the im portance of the town of Edmonton, as relating to the Northwest, dates back to the beginning of the last century, the town has not been widely known uatil the last few years. The result is that to-day Edmonton is the scene of much bustle. The hotels are filled daiiy with land-seekers and settlers who have heard of the wonderful grain fields and have decided to settle in
the Great Wheat Belt. Town lots have advanced two-hundredfold in price, and it will not be long before the central portion of the town boasts of warehouses and wholesale branches it necessary to men who find handle the increasing trade.
Then the enormous deposits of coal and the abundance of water and power facilities will attract manufacturers who can see a good thing in following up the invasion of a $n$ country by a progressive people. One need not hesi ate to predict that within less than a quarter century the town of Eimonton and the country surrounding it will be one of the most thickly settled districts in

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arge list of wide and improved Lands from $\$ 5$ to $\$ 20$

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 Every Farmer should therefore give attention to this subject and try small areas of Sugar Beet. You will have
mader good deal in ancertanining for yourself the great value of sugar Beet as il food for stock. Denmark" "stecting at the heal of the list of ofll known varicties, having tested atenten to the "Queen of
Grounds the past seitiom.







APRIL 15, 1903


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## Newcomers

 Best Goods. Lowest Prices, Hulson's Bay Cor, CALGARY.

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The Best Ranch Farm in Alberta


 farm impmernents. wand first-clans outfit of



## Westbrooke Ranch

 $=2=2=2$ $=5=$ ion other buldings machinery, etc. Irriga
fourther belonking to property. At $\$ 7,500$,


THE FARMER'S ADVOCATE


GOSSIP. At an auction sale, on April 3rd, at
Woodstock, N. B., of Shorthorns, con-
tributed by breeders in Ontario County,
Ont., Mr. Geo. Jackson, Port Perry, acting as auctioneer, 14 head sold for an $\$ 156$ for the young bull, Indian Duke, calved Oct., 1901, and contributed by Mr. Chas. Calder, Brooklin. important $\begin{gathered}\text { sale of } \\ \text { Cattle. }\end{gathered}$ Attention is directed to the advertise-
ment of Messrs. Case \& Walker, of Trushville, Indiana, appearing on another page of this paper. This firm, breeders
and importers of Jersey cattle, will sell and importers of Jersey cattle, will sell
at public auction, on Tuesday and Wednesday, April 28 th and 29 th, the entire Stock Farm, consisting of over one hundred head. Every animal to be sold
was born on the Island of Jorsey the was born on the Island of Jersey, the young stock dropped last year on the
farm by cows imported during 1900 and farm by cows imported during 1900 and
1901. There has never been on this farm a cow of any description except
fmported Jerseys and those ported parents; and since the orlgina
stock has all been subjected to the tu berculin test, and there has been no chance for disease to enter the !erd from health. It is said breeders and dairymen will
be pleased with the type of cows that are kept here. They will find them al-
most invariably with perfect udders, and most invariably with perfect udders, and
teats of good size thie fows finish and strong, constitution, proftable ones-some of the cows milking over 56 pounds in one day, and the Rabcock
shows about 6 per shows about 6 per cent. fat, as a rule.
Cows are deep bodied, of great digestive capacity, always ready for their food ages rancing from three to ten years
From these cows there is an array of heffers and young bulls that will prove a valuable reinforcement for the herds
into which they go. Their breeding is logue showing that exery animal in the descended from that ereatrest "if all .Jer
sey Island sires, Golden Lad, and that they carry from $12 \frac{1}{2}$ to 50 per cent, of
his blood. His double grandson. Fiolden Fern's Lad (who sired the famous Fly-
ing Fox, that sold for $\$ 7.500$ at auction ing Fox, that sold for $\$ 7,500$ at auction
last year), has a son, four daughters and upward of f orty grandsons and
granddaughters in the herd. There an granddaughters in the herd. There are




THE HORSE MARKET

|  | THEHORSE MARKET <br> Demands Sound Horses Only |
| :---: | :---: |
|  |  |
|  |  |
| is out on shares. Last year he sold$\$ 2,100.00$ of wheat off 133 acres, andtoak a large crop off 60 a'cres, which he |  |
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## Chem a peon lay ing qualities; nice harring, and are all

 large, strong thoned, healthy birds, having the frerun of orchard, and mated with 2 choice cockerels
ot extra welchar, and mated with 2 choice cockerel.
exten, and of ane type. $\$ 1$ per setting
of 13, or $\$ 2$ Ior 3 Seltinge. w. C. SHEARER,
$\underset{\substack{\text { The } \\ \text { Daniels }}}{\substack{\text { Incubators }}}$


We carry a full line of ountromers say soup splites our
new catalogue is out, and is free for the asking $G_{1}$ J, DANIELS, 198 to 200 River St., TORONTO. Poultry and Eggs Wanted
$\left.\begin{array}{l}\text { DUCKS } \\ \text { TURKEYS }\end{array}\right\} \begin{aligned} & \text { Empty crates forwarded } \\ & \text { application. } \\ & \text { Highesc market prices paid. }\end{aligned}$ GEESE Correspondence solicitea. Toronto Poultry and Produce Co

THE FARMER'S ADVOCATE
"A FREE SAMPLE PACKET" of Delicious "SALADA" Céjlon Tea (Black, Mixed or Natural Green) will be sent to any person filling in this coupon and sending it to us with a two-cent stamp for postage. $\begin{gathered}\text { (Write plainly and ment ion black } \\ \text { Mixed or Natural Green.) }\end{gathered}$

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"Farmer'
Address "SALADA" TEA CO., TORONTO. "
Concrete. Piggery and Henhouse

## THOROLD CEMENT



TBE Henhousf
k, built $\qquad$ THE PIGGERY

Lstatr of John battle. what mr. Lockwood says
Dear Manuacturers of Thorold Cement, Thorold Ont. Delaware, Ont., March 16, 1900






## FIELD GLASSES-50-Mile range-\$3.55

REGULAR RETAIL PRICE, \$Io.00.


Glasseses at such secured 98 pairs of regular $\$ 10$ Field


















 :OYS can earn a Fountain Pen in a few hours by



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 Empire Way
Mahis Cows PAy

## Cmadidum Buma Phom

Under the joint auspioes of the Canadian
Horse breeders Assoctation and the To-
ronto Hunt
Fifth Military Tournament The Armouries, Toronto, Canada

$$
\begin{aligned}
& \text { Wednesday. Thursday } \\
& \text { Friday and Saturday }
\end{aligned}
$$

April 29, 30, May I and 2, 1903, Entries close on Saturday. Apriri 18th,
1903, and should be addrested to
Parliament Buildinge. HRY WADE,




## SEED PEAS FOR SALE

WOODSTOCK CEREAL CO., Ltd,

THE FARMER'S ADVOCATE.

| NOTE OTOs yIEsE AT BOTTOM Dor |  | Page Acme Poultry Netting A bird cannot fly through as small a hole as it can crawl through, so Page Poultry Netting is made with wire top and bottom-no sag. Get Page fences and gates-they're best. <br> The Page Wire Fence Co., Limited, Walkerville, Ont Montreal, P.Q., and St. John, N.B. |
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## Stallons on Mares

IMPORTED LAST SEPTEMBE THOROUGHLY ACCLIMATED

The up-to-date drafter, big and medium
weight, dark colors, short, straight back, no hair on legs, immense rumps, pony-built body. Nour slable. Henest value for bonest money

BARON DE CHAMPLOUIS, Importer, DANVILIE, QUE


LA FAYETTE STOCK FARM J. Crouch \& Son, Props, STALIINS.

We are the largest Importburg Germeders of Oiden-
buach hores
in America We an in America. We also inport
Drat hiras of all kinde, in-
cludting Belcians, Clydes-
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Terms easy, All stock
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A new house, barn, silo, concrete floor, or any other such work? If so, use Queenston Cement


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THE old brand made by a new made. process. No better cement made. All who contemplate using cement should first inspect the dif ferent kinds of cement, and then they would know which is best and cheapest. We especially request patrons-about the new - many Queenston Cement used during the ater part of last season. Do not be missed by statements from those to themselves. Write for prices, estimates and full particulars.
We can save money for you when building. money for you
IUSHIEIR, ON'TARIO.


## cossip.

seventy-ondtinued from page sh:
and home-bred, with a finheep, imported and home-bred, with a fing crop of lambs,
by the imported ram, E. 60, bred by by the imported ram, E. 60 , bred by
Lord Roseberry, and with a prizewinning record scarcely equalled by any other fock in America. Parties desiring
to purchase stock in any of these to purchase stock in any of these lines
should write Mr. Gardhouse Ont., or give him a call. Weston is only seven miles from Toronto.

A cholce 100 -acre farm, with complete buildings and other outfit of more than usual importance, is advertised in this issue, by C. H. Chapman, Wyoming,

Recently, our representative called on Messrs. Jas. Tolton \& Son, 3 ziles from Walkerton, and there saw their recent purchase, the promising young imported roan Shorthorn bull, Prince Homer, bought from Mr. John Isaac, Markham, and bred by Sy Campbell, Kinellar, Scotland; sire Kntght
Strathbogle 2nd $=$ 79172also bought Lady Mary (imp) hey heifer, with very sweet head and shape bred by Alex. Brown, Wartle mills land ; sire Bounding willow $=78438=$ They have several imported cows of good Scotch breeding, and others of such oted families as Miss Ramsden, Favo yearling bulls, in first-rato, condition for sale, besides numerous calves the grand bull. Heir of How -inesur from imported Kinella. Besides the breeding of Shorthorns, a nice flock of bxteding of Shorthorns, a nice tock of
Oxford Down sheep is kept, of thirty breeding ewes and a well-grown lot of fifteen yearling ewes and twelve yearling rams, by imported ram, Reading's 28 th 1899-a thick, well-woolled ram, well or these, strong bone, and a sure sire. Some two-year-olld thearling ewes and

## BOOK REVIEW.

$\mathbb{n y}$ book reviewed in this department may
be ordered through this oftice. We have had placed in our library, by

the Orance Judd Conner entitled "The Book of Corn." | There |
| :---: | are about 350 pages or reading matter, dealing with every phase of the corn inunder the direction of Herbert Myrick by the most capable specialists, such as A. D. Shamel, Prof. H. J. Waters, Al

bert W. Fulton, Bernard W. Snow prof Luther Foster, Prof. Willis G. Johnson Prof. Levi Stockbridge, Clarence A Shamel, Prof. E. V. Voorhees, Prot J. C. Arthur. Drof C. C. Powell, Prof many ottiers. Farmers and all other students of advanced agriculture will find this a most useful and up-to-date authority on the greatest of the worlds cereals. Price, through this office
$\$ 1.50$.
\$50 to California and Return Via Chicago \& North-Western Railway
Virst-class round-trin from Chicago, May 3rd and May on 12 thale
18 to IBth, to Los Angeles and San Francisco
Correspondingly low rates firm otlice Points. Favorable limits and stop-over
privileges. Low one-way settlers' rates
to Wostern Doint
 Chicago to the Coast through without
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 GOMBAULT'S CAUSTIC BALSAM


SUPERSEDES ALL CAUTERY OR FIRING.






DR. PAGE'S ENGLISH SPAVIN CUPE


BAWDEN \& McDONELL
 Exeter, Ont. Clydesdale, Shire and Hackney Horses
 and two Hakney stal.
lions, prizewinners in England, Scotland, and Cans, prizewinners in
ng the best blood and represent-
Canadive; also, severalt choice


TH B KINDERGARTEN STUD FARM, GUELPH. JAMES HORLEY, Proprietor.
Breeder of Thorouyhbred horses from noted sires and
dams. All clages of horses for sale.
'SURE-GO" HAMEFASTENER,




THE FARMER'S ADVOCATE.

## NEW IMPORTATION <br> Thirty-five Arrived January 21, 1903.

 gives buyers an unequaled selection. SHIRES HACKNEYS. Call early and be convinced of the superior quality of our horses and ALEX, GALBRATH \& SON Smande and Brandon, Manitoba

Robert beith, BOWMANVILLE, OWT.,

Clydesdale Hackney Horses
Is offering for sale a number
of choicely bred Clydesdales or chicely-bred Clydesdales
and Hack
number of ollions ; als a number of Hackney mares.
The Clydesdales are sired by the noted horses, Prince of
Albion, King of the Roses,
Lord Stewart and The Prior.
om

JOHN BRIGHT, MYRTLE, ONTARIO, Clydesdales and Shorthorns,


Is now offering for sale 8 stallions, sired by such horses as Prince Patrick (imp.), Erskine's Pride (imp.), Sir Erskine (imp.), Royal Laurence (imp.). Also a number of mares and fillies. Miss Ramsden, Clementins such families as son Flower, Village Girl, Stamford, Rachel, Myrtle Station, G. T. R. and C. P. R. Farm connected by long-distance telephone

Hodgkinson Tisdale BEAVERTON, ONT. Breeders of
CLYDESDALE AND HACKNEY HORSES are now offoring a number of choit CATE,
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100 PERCHERON, SHIRE AND HACKNEY STALLIONS AND MARES


All good ages, good colors, with
Iots of size, quality and action,






LEW. W. COCHRAN,
607 West main st., crawfordsville. ind., u.s.a.


$\xi$ ShIRE, Percheron, Suffolk avo Hackuey STALLIONS.

20 to 30 Good Practical Salesmen Wanted,


J. G. THRUMLAN, Mamager, BUEHNELL, HLL.

NEW IMPORTATION ARRIVED FEBRUARY
First=class Clydesdale Stallions

 WM. COLQUHOUN, Mitchell P. O. and G. T. R. Station, Ont.

## Imp.Clydessales ins Shorthorns





International Importing Barn, Sarnia, Ontario,


## Clydesdale and

 Shire Stallions, and Spanish Jacks.




H. H. CALISTER, Manager and Salesman.

##    Masmus, Lake City, Iowa. <br> Our entire herd of Ayrshires is doing unnsually well-bulls, cows We are sending, daily, quite and ander of miot of mik to of milk to chese flactory, in which there is good money. Chesese pricess are und commonly high. Spring is orye early Grass at this date, Alril Tth , has mate quite a start, and everything indicates early      light colored, but spoted. We have only three heifer calves, ondy vou    and we think it a rare chance to any cheap bull for a dairy or pure-bred herd We only make this offer once, and do not bind ourselves to supply every inall sold. Yours very truly, Alex. Hume.

 Goodfellow bros., macvilleDuring a recent visit to the genial Goodfellow Bros., of Oak Lane Stock
Farm, one most noticeable feature of the place was the perfect confidence between the animals and their owners, from the
largest bull to the recently-born calf an object lesson as to what good han-
dling and kindness will do. In such a herd, where none but the best is kept, mentioned in the "Gossip" " of December 2nd issue, Mamie Stamford, by Golden improved immensely since she took first like a sure winner again. and looks is as fit as ever, and may be considered in calf to Famous Pride. Buchan Lass (imp.), with calf at foot by Nonpareil Duke, he by Golden Fame, by Clan
Alpine, and two very heifers, Roan Isabella, by the yearling Lady Fragrance 9th (imp.) Stone, and nagar $=14854=$, both in calf to Famous
Pride, would Pride, would prove a bonanza to any-
one desiring to start a first-class herd. Famous Pride, by Golden Fame-the same family as Choice Goods-is a low-
set. well-fleshed a worthy successor to Shining Ligh (sold to Mr. Flatt)-of almost faultles
conformation and three bulls offered for sale, Golden Far, great size, and although ouly eighteen
months old months old, would weigh about 1,700
lbs. Favorite (imp.), yearling Golden Fame $=76786=$, will be shown sold. This bull has done exceedingly
well since our last Lad $=23916=$, a red-roan of pleasing appearance. Gipsy Maid has a fine bull
calf, by Shining Light, who will shown in senior bull calf class. Orange Orange Blossom, by Remo, by sire o year-old. Water Cress (imp.), roan, first Western and second Toronto fairs a Tilhourie's Fancy (imp.) a sweet roan
two-year-old, by Scottish Chief, grandam
Star of Morning has Star of Morning, has a calf at foot by
Prince Victor, by Lavender Victor $\tau 6994$ The Cotswolds, of which there is a fin


Horse Insurance.
 yricuan hati forat has Tuttle's Flixiv. Tuttle's Elixir 8. un hand aind shax Tuttle's American Condition Powders TV
 Dr.S. A. TUTTLE, ${ }^{\text {Br }}$. 6 Beverly St., Boston, Mass, IMMAN KNOX \& OAKLAWN FARM. Greatest Importing and Breeding ALA Famous PERCHERONS and FRENCH COACHERS. 500 HEAD解 Coliection Ever Assembled,
 INTERNATIONAL LIVE-STOCK EXPOSITION

 Not withtstanding the super io quality of obtained eles yhere in America.
DUNHAM, FLETCHER \& COLEMAN. WAYNE, DU PAGE Co., ILLINoIS. GEO. STEWART, Howick, Quebec,


Clydesdale Horses


 GEO STEWART
EOR 6 CLYDESDALE STALLIONS

 HOLWELL MANOR FARM FOR SALE
TWo. Sook Cocilie tite :

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|  | Shorihorns, Cotswolds, | W. R. Bowman, Mt. For |
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|  | Barred Rock Fowls. | and |
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|  |  | SHOUEESSTON HEIMTS |
|  | G000FELLOW BROS., man mit | SHORTHORN |
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| , |  | Farm 3 miles north ot Nube |
| this imported bull to the benefit of them selves and their locality. To Geo |  | Lakeview Shorthorns, . |
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|  | H. PARKER, RIVEFGAMM. | SHORTHORNS, COTSWOLOS, |
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|  | Shorthons, Clydestales and Leice |  |
| buls of hid day. |  | SXPM M |
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|  | WM. MeINTOSH, H, Hors \%n po |  |
|  | MANITOULIN SHorthorns | (tame SHORTHORN |
| $\begin{aligned} & \text { will doubtless be heard from later on } \\ & \text { They are buildimg up a very nice herd, } \\ & \text { indeed. To V. O. Hildreth, Aledo, } \end{aligned}$ |  |  |
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|  | Shorthorns and Sfropssire Steen. |  |
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|  |  | ORTHORNS |
|  | Shas. chapgr, |  |

THE FARMER'S ADVOCATE.

Portland Cement Concrete Silo.

built for sherman harris, verschoyle, ontario, 14 feet in diameter and $\varepsilon 0$ feet high,
"RATHBUN'S STAR" BRAND,
THE RATHBUN COMPANY,
310 AND 312 FRONT STREET WEST, TORONTO. ONTARIO


Shorthorns, Leicesters and Berkshires $\left\lvert\, \begin{aligned} & \text { Shorthorns and Shropshires, Scotchard Scotch } \\ & \text { For SALE: }\end{aligned}\right.$
 S. DYMENT, BARRIE, ONT. Breeder of Sentch Sharthorns mhales anume wereange at






$\qquad$ , beung bulls and


 | Mansell and Cooper strains. |
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| Souffile Station, G. T. R. |

Maple Grange Shorthorns
 well worth the meney. (heavy milkers), to be tolc $\begin{gathered}\text { o. . DoyLE, } \\ 0\end{gathered}$
0 wen Sound P. 0 . and Station and Port. Shorthorms and Berkshires.


BELLEVUE SHORTHORNS



Imp. Shorthorns and Lincolns
 Shomhorns Gydesdales




tion comb, ete To thos intending th
purchase in either of the abote lines .i.


NOTICES.
the influences that give to a house of homelike appwarance. Flowers of all for the busy people of to-day the per-
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mand for sugar beets for feceding pur
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athe town or and
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HILLASS Shorthorns
 SAS. MOARTHUR, GOMTOM, Ontario,
© H O R T W O R N A JLTSS and MARAS: 6 heifers from 1 to 3 years
Ild. 5 with calves at foot and in calf again to Imp . British Staterman. Also two young bulls (roan).
CouIs ELLARD, Loretta P.O., Beoton Sta

SHORTHORNS FOR SALE Three young bulls of choicest breeding and qual.
ity ; also cows and hifersi Owen Sound Station.
 MERCER'S SHORTHORNS
 Princesses. Red Roses, Young Sterlings. Fash-
ions and Matchlesses. They number
for sale. There are several choice heifors, 17 or sale. There are several choice heiters, 17
heiffer calves, 3 bulls fit for service and $\#$ bull
halves. A few older females.
Thice Thos. Mercer, Markdale P. O. and Station, SHORTHORN CATTLE $\begin{gathered}\text { and Oxford Down shet } \\ \text { Imp } \\ \text { Prince } \\ \text { Homer at }\end{gathered}$ ead of herd. Present offering: Young bullser and
heifers from imported and hcme-bred cows ale
 SHORTHORNS. $\begin{aligned} & \text { Imp. Christopher }=28859 \text { heads } \\ & \text { herd. A fow chuice eung cows }\end{aligned}$ A! M. Shaver, HAMHItTo.N sim HA OV'YHORRN HERD FOR SALE: : Four young bulls, from. 8 to
months old, from Al dairy cowe. Good ones. om WM. GRAINGER \& SON

Greengrove Shorthorns $\begin{gathered}\text { Number } \\ \text { of } \\ \text { choice } \\ 35 \\ \text { heoted }\end{gathered}$ demeries. Last Rale : Several young bulls, by Wan

Females Limp. Fitz Stephen and trebboote | om $\quad$ Goring P. O., Markdale Station |
| :--- |

W. G. PETTIT \& SOINS FREEMAN, ONT., CAN.
Scoich Shorthorns and SHROPSHIRE SHEEP,


Solite: 27 Head of Imported

SHORTHORNS | $\begin{array}{c}\text { just landed from quarantine. Also one Clydesdale } \\ \text { stallion. } \\ \text { JUHN } \\ \text { ISAAC, } \\ \text { Markham, Ont. }\end{array}$ |
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| $\begin{array}{c}\text { Mar }\end{array}$ |

SCOTCH SHORTHORNS $\underset{\substack{\text { ROR } \\ \text { SAL }}}{\text { SHO }}$
 Rockwood P. O. and Sta., G. T. R. Ahe "STAY THERE" Aluninem Ear markers *awayywaw avem


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 Canada under the supervision of of shop in
Crean Separator experts obtainable.
The The bowl is not fillod with innumerable com
plicated parts to daust and wash every tim
it is used. It has no stable.-大inted, enamelle
 The National is is it is is used. to overcomonal is designed for convenience and
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sent for a free trial to prove all that is chand
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NATIONAL No. 1 A.
Capacity, 450 to 500 lbs. per hour.
NATIONAL No. 1. hour. Capacity, 250 lbs . per hour.
Give the National a trial. Send for particu
rs to any of the following general agencies:
The CREAMERY SUPPLY CO, Guelph, for South-western Ontario, The T. C. ROGERS CO., Guelph, for Ontario North and East JOS. A. MERRICK, Winnipeg, Man., for Manitoba and N.-W. T. JOHH A. ROBERTSON, 108 Union Avenue, Montreal, Qubbec,
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## SHORTHORNS

$\mathrm{W}^{\mathrm{E}}$ are offering FOR SALE a grand lot of young imported Sootch ocows and heifere Herd Numbers 150 Hesal.

Send for New Catailogue. VISITORS WELCOME. AND OORRESPONDENCE PROMPTLY ATTENDED TO H. Cargill \& Son.


## 12 SHORTHORN BULLS 12

First-class Scotch Breeding CHOICE QUALITY. LOW PRICES.
 Mmortai and SHORTHORNS FOR SALE

H. J. DAVIS, woodstock, ont.

M ITLAND BANK STOCK FARM ven excellent young bulls, straight Scotch breeding. also young '
and heifers, imported and home-bred, for sale. Prices moderate Telegraph and
ontlce adjoin the farm.


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SHORTHORNA.


PENNABANKSTOCK FARM
 SUCDTUODUS Pagh. Whitrovale, Ont Wo have for male five bull oalves, trom 8

JOHN MILLER \& SONS SHORTHORNS (IMP)



Eowand Robinson.
Sootch Shortiorins Duchoss of Glostar and Mina strains. "The HARIRY SHOLRE, MAPLE LODGE STOGK FARM shorthorns.-Firts prize
Hootch breding. - irst.prize milking gtraing, bogst
soute
Young buile and heilers tor


Shorthorns, Berkshires and Leicesters.
 ISRAEL GROFF, ALMA.
SHORTHORNS.
 Trering : some ohoioce young bulia.

HORTHORNS

Atew cow as
HOQ. Bus

THE FARMER'S ADVOCATE.

## GOSSIP

"We received., Southgate, Ont. fry yrite:
31st, the quarantine, on yly yrch ported from Une Herefords recently im
porte
bill
Onwnd bull, Onward 120463 , to heal hear herd herd
This remarkable youn ster is twent seven months old, and weighs in twent
condition 1,900 Ibs. His sire On, imported by the late C Cire, March and later sold to head the her of w
S. Van Natta \& Son, Fotifer, Ind, ha
 While his dam, Columbia 58791 America
remembered as
cese the dam cessmbuly exhibited Christopher and Col
unlbine ulubine. He is of the large type of
Hereford, wonderfully smooth and deep with quarters well let down on hock
and puadded full of meat, as is also his
back and loins. fleshing quality, with a ory heavy
pliable hive, and those who her Pliable hide, and those who have seen
Imp. Protector, formerly champion of
Enctand this coming young bull. forma an idea of
Ho carries the blood of Grove 3rd three times, through
the mighty Rudolph 13478, also havinh the hloon of Horace three times in the
femane line, then he has the blood of
Lord wiston he Lerst sors and and Anxiety, through theif
would be difficult tors in in fact, it

 Was mated to Protetor, to whose serv-
iee she now has at root a choice bull
calf, and is also bred again to him Cessful sire, and his his, wat, whonest suc.
ported to Anerer im-
preciated inerica, have been much apported to America, have been much ap-
preciated in breeding herds and the show-
riug. Next contes Salisbury Lass stios3, by Salisbury (imp.). and at one
time the highest-priced Hereford bull
aver sold ever sold at auction, bringing $\$ 3,000$ in
Che late cattle tepression. He was a
double Lord wilton nnd Cins. dam, Stella, is a granddaughter of St.
I.ouis, and she also has two crosses of She also has two other
Great Fariel bollood through the as crosses of Sir Richard 2nd and Lord
Wiiton. She was bred at Sunny Slope
ind and is now four years old, and as as a,
broad-liacked, thick-lleshed cow has few
eat 82,000 Pretorian at buill calf by the
in calf to the $\$ 6$ no no Another in the $\$ 6,000$ limp. Protector a very choice four-year-old, with a buli
call
out site at by Golden Star. This is
oungsters will som a be heeder of such of she
a show cow of the first water, and

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## BARREN KOW PAOKAGE OH postpald, to mate any cow under 10 yeargo old broed or refund money. No trouble, no rimat, olven in teed twioe dayy. C . Soliock, Druggist, Morrisburg, ont. Three Ane younc in JERSEYS   <br>   <br> E. EPS HINMAN BONョ, GRARTON, ONT.


 Ber Jarser Brampton one Best Jersey Bulls at lowest prices.
$\qquad$

 Mrs. E. M. Jones, Brockville, Ont JERSEYS, COTSWOLDS YORYSHIRES,

 For sal For sale : jerregabe. yearing bulle; femal

Lnndale Holsteins
tor eare neow offiring a number of yonng bullas ait
caves of botr bexye. Lady Wald orts De Kol.
spring brown bros
30 HOLSTEIN CALVES


 H. George $\&$ Sons.
Honted. Write for prices
O Spring Brook Holsteins.



Brookbank Holsteins

 aEO. RI


HOLSTEIII-FRIESIANS Threo Holstein yen


## 7 HOLSTEIN BULLS

 HOR SAIE | JAS. A. CASKEFY, Madoc, Ont |
| :--- |
| J. | Riverside Holsteins



 H. BuLLERT, $\begin{gathered}\text { Oassel, ont. }\end{gathered}$

HOLSTEIMS, TAMWORTHS, COTSWOLDS,

 HOLSTEINS TAMWORTHS. Twiw oull calvee, 8 and 9 monhas s.jearinitheife
 fuirita promplly anawered. Write or cell. BERTRAM HOSKIII.
Maple Park Farim Holstelns, Notherland

 heauty, the great public teat winner, and mer mil
 Fon A. Aint From 4 to mon the old, having dires

Rildgedale Farm Holsteln-Frieslans for Sale.
 CHOICE AYRSHIRES calves, and as we heve (rob. Mall doreh and Aprill hini


 W. F. STEPHEL ITuut River Oie brede

 Maple Cliff Dairy and Stock Farm



DEEP-MILKING STRAIN AYRSHIRES AND GUERNSEYS
 ISALEIGH GRANGE FARM, $-\quad=$ DANVILLE, QUE.
AYRSHIRES
WATSON OGILVIE,





## ROBERT HUNTER, Manager.

Near Montroal eloctric cars. Lachine Rapids, P. Q.

APRIL 15, 1903

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| BEST and CHEAPEST <br> IN THE MARKFT. |  |
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Treatment.-In severe cases,
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of warm water should be given as a drench. The drench should be administered slowly.
If there is much pain and the temper ature runs high, ounce doses of sweet spirits of nitre with fifteen drops of
tincture of aconite root should be every four hours until the temperature is requently with warm water, and all th milk possible drawn at least three times a day. The udder should also be gently
hand rubbed.
Support. to the udder by age passing under the udder and fas ened up over the back will also be o
great advantage. Holes should be mad great advantage. Holes should be made
in the bandage for the protrusion of the eats. An ointment made of a dram. of
solid extract of belladonna and a dram of gum camphor rubbed up in two ounce of vaseline gives excellent rest
allaying pain and inflammation. Throughout the treatment of garget mammitis tonic doses of Dr. Hess' Stock Food should be given. The amount fuls-it tones the vital organs and estab In every package of Dr. Hess'. Stock
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