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 VOL XXXVIII. WINNIPEG, MAN. APRIL 6, 1903 , LONDON, ONT.

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parienced, and any kind of man can be supplied pariancea, and any kind of man can be suppliod
on that date to the farmers of Manitobe. SECURE YOUR MEN FOR THE SUMMER through this Society by applying to the Secre-
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 and World's Fair, Glasgow, 1901." The The
undersigned has a quantity of this New American Lincoln Oat for sale, for which he was awarded the above prizes at the
Paris and Glasgow World's Fairs ; price, 50c. per bush., f. o. b. at Manitou
sacks extra. This is a white oat with light hull, heavy meat, and soft nib : stands up remarkably well, and, so far,
free from rust and smut. It is an early variety and immense yielder. Address,
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You who are sick and are waitingyou must get my book. get well, for I
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know that these diseases, when chronic know that these diseases, when chronic
are seldom cured in commion ways. are seldom cured in common ways,
Must is a strong word, but it's Must is a strong word, but it's true
You will know soon or late that a per manent cure demands my hel
I will mail you an order-good at any
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Restorative. You may take it a mont Restorative. If it succeeds, the cost i
on trial. on 50 . If it fails, I will pay the drug
$\$ 5.50$ myself-and your mere word shal
gist gist myself-and your mere word shal
decide it. decide it.
No other physician ever made such an $\left.\begin{array}{l}\text { oficr. } \\ \text { such a test. }\end{array} \quad \begin{array}{c}\text { Nother rennedy could stand } \\ \text { For your own sake, }\end{array}\right)$ neglect it, when you risk not a penny and success me health I have spent a lifetime in learning how
to strengthen weak fnside nerves. My Kestorative brings back that power
which alone operates the vital which alone operates the vital organs.
I treat a weak organ as 1 would a weak engine, by giving it the power to act
My way always succeeds, save when cause like cancer makes a cure impossi-
ble. And most of these chronic diseases ble. And most of these chronic diseases
cannot be cured without it. You
book.



## Milk Fever

> The hact cause of cill fover seems dificult to determine, but we know that II e cow is on good pasture at the time of calving, as nature intended she should be, there will be no clogging of the system and no milk fever. Hence, the
true way to prevent milk fever is to true way to prevent milk fever is to
make the conditions as near like nature' conditions es possible.
Giving purgatives, carbolic acid or any
drastic drug is not according to nature's plan, and, therefore, is likely to be injurious. Give the cow something to replace the qualities that have passed from her winter food in the drying process, and you are working on hature's
lines, and these are the lines the Beaver Mfg. Co. had in view when they began
the manufacture of Herbageum, and by the manufacture of Herbageum, and by feeding Herbageum nature is so dosely
followed that natural results are obtollowed that natural results are ob-
tained and there is absolutely no possibillty of milk fever.
In this connection, Mr. Alfred A. Taylor, a prominent farmer of Margaree
Harbor, N. S., writes : ". Herbageum prevents all scouring with cattle, and keeps them regular at all times. It is
of great advantare to feed it both beof great advantare to feed it both be-
fore and after coming in, as it cannot be excelled as a preventive of milk fever,
and it is a positive cure for bloody milk.
Mr. G. J. Fockler. of Ringwood, Ont., Mr. G. J. Fockler. of Ring wood, Ont.,
wends in a long report on the advanthat part of it only which touches on the subject of milk fever. We quote as tollows: " Herbageum is good for cows
previous to coming in as well as after, and is a preventive of milk fever. We
 general regulator, preventing both scouring and constipation, and it is a very Messrs. Wm. Stewart \& Sons, of the Menle Stock Farm, Menie, Ont.. who are noted breeders of Ayrshires, say: "In thirAyrshlire herd we have had continuous satisfaction. We find it a great safeguard against milk fever, and consider it the finest known preparation for purt the whole system in perfect working order, ensuring much hettor returns in
milk , while sustaining the animal in
feesh.,

CHAS. R. DUXBURY
REAL Estate Agent.


# MKMERS GVVGGTE <br> Yol. XXXVIII. WINNIPEG, MAN., and LONDON, ONT., APRIL 6, 1903. <br> No. 571 

## Editorial.

The Agricultural College Assured.

, Me forisla- fure of Manitoba, Which closed a few weeks ago, carly in 1902, presented their report, and acting upon it the Government introduced and had pasied a bill authorizing the erection and equipping of in Agricultural College within the Province. It was significant that when the bill came before the House, and the wisdom of spending

seventy or one hundred thousand dollars in the interests of agricultural education was being discussed, the great political parties of the Province were practically a unit. Inasmuch as commendation may be, therefore, deserved by our legisla doubtful if the bill as passed received the consideration which its importance merited. It would appear that very few members on either side of the House had taken the trouble to become thoroughly acquainted with the requirements of the ouncty as regaras entucation along agricultural ines. If they had, however, their ideas were, for he trine being, suppressed allowed to pass without specific as pre-
ion. The first and most important clause, given crewith describes the aims, objects, and to some extent the course of study, of the new institution ; .' There shall be established in the Province of
Manitoba, at such place as the Lieutenant-Gov-rnor-in-Council may decide, a school, to be called The Agricultural College of Manitoba,' for in-
truction in the theory and practice of agricultruction in the theory and practice of agricul-
ture, horticulture, forestry; the characteristics, care, breeding and management of farm animals;
butter and cheese making; domestic science; the butter and cheese making; domestic science; the
orinciples, construction and use of varieties of rinciples, construction and use of varieties of
buildings, fences, drainage systems, and other ermanent improvements; machinery, implements, tools, instruments and appliances necessary or de-
sirable on a furm; the elements of various sciences sirable on a farm; the elements of various sciences
applicable to the above subjects; such English and matheinatical branches as may be requisite for success on a farm; and in such other subjects
as will promote a knowledge of the theory and practice of the pursuits and subjects above reulness of the college." Although the "Farmer's Advocate" does not jection to the character of the college as prorosed, because the recommendations of the commission were substantially the same as those first g.o. vet we believe that a few points in that re port are deserving of consideration.
In the duties as outlined for the different Proiessors, it is noticeable that the Professor of mission, should have charge of the dairy stock, al hough there is to be another Professor, whose
harge will be the field of animal hustandry. (harge will be the field of animal hustandry:
from our hnowledge of the duties reguired to be erformed by the men occupying, each of these ast mistakes the management could make to re Hire the Profossor of Dairy Husbandry to pay he Professor of Animal IInshandry would reatly become Professor of Beef llusbandry, rather than Indicat.. Moreover, when the truth is known where such an arrangement has existed, it is cer
tain that nothing has been the catise of more
strife among members of the college faculty is noticeable, too, that the most illustrious dairymen to-day upon the continent do not touch live lowa and Wisconsin might be mentioned in this connection. Who for a moment believes that Babock and Farrington would have won the worthy eputation which they enjoy had part of their time been spent in studying and lecturing upon the dairy form and characteristics of cattle.
In regard to the courses to be given by the college, the Commission have reported in favor of Bachelor of the Science of Agiculture (B.S.A.) addition to a course of two year's, and a shorter one consisting of a few weeks during winter
this question we have in the past taken the stand that conditions in this country did not justify the arrangement of such an extended course. Our 1'rovince is comparatively young, and the money to be spent, we believe, should for a few years at least go in such a way as will give the most practical results and be popular with the farming classes. If, however, those who manipulate the pense to provide a four-year course in agriculture may wisely be undertaken at the present time, why, no serious objection should be offered by iarmers.

As to who
" The government of the college shall be under a board of ten airectors, of whom the Minister of Agriculture and lmmigration shall be one (ex
officio), and of whom three shall be appointed by the Lieutenant-Governor-in-Council, two by the council or governing body of the University of Manitoba, and four shall be selected by the farmby means of delegates chosen for that purpose, in a manner to be prescribed by the Lieutenant-Gov-
ernor-in-Council. Any vacanies occurring on the ernor-in-Council. Any vacanies occurring on the
board, by expiration of time, death, or residence out of the Province, of any of the appointed or selected members of the board, shall be filled by
the persons or body who appointed or selected the the persons or body who appointed or selected the
person whose position has thus become vacant." Without criticising the personnel of this and the manner in which the majority of its members are tions, we pass to their duties, and there we find among other things, they are to he empowered with the authority to regulate the course of study in each branch in which instruction is given. That any council of men so elected, holding office for three years, should have such absolute control of the studies is undesirable. Such an arrangement would leave the President of the institution and his staff occupying positions of servility beneath the dignity that should characterize their office. Not that we believe any college staff should be empowered to decide as 10 what they are to teach, but they shoul at least have sorme sustantial influence in its direction, and where the right man occupies the presidentiasition to say what should or should not be riven as instruction to the sons and daughters of the farm. Primarily, the success or otherwise of the institution will depend upon the man at the head of it, and his staff and the former should be invested with ample powers. Space will not at this time permit a fullor disscussion of the bill nor the Commissioners' report upon which it was constructed. The whole question is now before the people of Manitoba; the
necessary legislation has been enacterl, and those interested will anxiously await the announcement as to where the institution will be located,
who is to be its leading light as President.

## A Western Publication

According to enquiries which have been re According to enquiries which have been re-
ceived at this office during the last few months, it is quite evident that a number of farmers and stockmen have been induced to believe that there is only one edition of the "Farmer's Advocate" pablished in Canada, and that subseribers in Onthe Quebec and the Maritime Provinces read the very same articles as those of Manitoba and to the fact that designing persons were making this misrepresentation, we were inclined to look lightly upon the matter, believing that such fairy tales would deceive nobody. Of late, however, several prominent and intelligent readers have of our editorials the distinctly Western charactor have not been sufficient to convince everyone in their district that the "Farmer's Advocate," whose offices are located in Winnipeg, and have been for years, was not an Eastern periodtcit: For the benefit of any who may not be clear on this question, we wish to state once and for all that there are positively two distinct publications, both owned and controlled by the Wm. Weld Company, Limited. The Eastern edition, with offices in London, Ont., is published on the 1st and 15th of each month, and the Western edition, with
offices in the Imperial Bank Block, corner Main Street and Bannantyne Ave., Winnipeg, is published on the 5th and 20 th of each month. It should be sufficient for any one to know that no single publication could successfully meet the needs of agriculture in Eastern and Western Canada at the same time. Perhaps in no country in the world are conditions as to soll, cultivation, and the practice of agriculture generally, more Manitoba. There pioneer farmers of Western Canada were satisfied in reading a certain amount of Eastarn agriciltural topics, but that day has practicaily gone by. Manitoba and the Northwest Territories during the last few years have shown to the world that their fertile plains, when cultivated according to a system peculiar only to prairie conditions, were capable of being designated the "Granary of the Empire." Such a country is, hence,
deserving of the very best agricultural literater deserving of the very best agricultural literature to be published. At present wheat is king, and
will be for years to come, but stock-raising is a will be for years to come, but stock-raising is a
strong and worthy accompaniment; and dairying, strong and worthy accompaniment; and dairying,
poultry-raising and horticulture, including forestry, the public school and the home, must each receive due attention. Realizing the importance, therefore, to a young country already well-grown, but strong in possibilities, of publiehing the best ". Fossible articles on each of the above subjects, the "Farmer's Advocate," Winnipeg, with its fully equipped editorial and contributing staff, is determined more than ever to place regularly before its readers such information as no intelligent Western farmer can afford to do without. With
access to the experience of the oldest and most successful men from the eastern boundary of Manitoba to the foothills of the Rockies: with the researches of our two grand experimental farms at our disposal, and with every facility for getting out an up-to-date paper in the interests of the Western farmer, we can safely rely on the good judgment of our readers. The numerous letters of appreciation constantly being received is ample testimony that thousands enjoy its columns, and it is to be hoped that no sane person will allow himself to be deluded by persons whose reliance in
limited character.
the Farmer's Advocate

## and Home Magazine.

thie liading agricultural journal in manitoba AND N.w. T.
the william weld company (Lintred)



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## The Cost of Building.

The cost of purchasing the requisite material for the construction of buildings, is a serious Manitoba and the Territories at the present time To the new settler, a certain amount of building is necessary, and in a prairie country, where lumber has to be imported, the financial outlay becomes no unimportant matter. With those, also who have become well established in the country and have reaped the reward of several bountifu harvests, there are stables and dwellings to be erected, such as will make the home, both in comiort and appearance, in keeping with the prosper it f . w whe office asking for information regarding the comoffice asking for nformation regarding the com buildings. Owing to the diversity of conditions prevailing in different localities, these have been difficult to answer, for no doubt there are places where any one of the four materials mentioned might constitute the main portion of a building and be constructed cheaper than if any of the other three were used. Where logs of reasonable size can be obtained, stables and dwellings may faction for the pioneer that will give good satis if lumber were used for the walls. The value of cement as a building material is beginning to be better known and appreciated, and where gravel can be conveniently had, and the cement itself procured for what it is worth, there is, perhaps, no cheaper material for the walls of a substantial dwelling, or the walls and floors of stables Stone, also, makes a very fair wall for stables, but for dwelling houses it collects too much dampness, unless there is a frame inside, with lath and plaster, forming a hollow wall. In few localities, too, is stone plentiful, and the cost of putting ap the wall is considerable
Underial is more useful or necessary than lumber but the increase in prices of most grades for sale in Manitoba and the Territories, and the comparative impossibility of securing a supply at any price in many districts, makes the question of building a grave one. Indications point to the existence of a lumber combine. The Winnipeg City Council, a short time ago, took the matter up, and have been holding an investigation to been claimed that the Western ciation was formed for the very purpose of maso ing arbitrary regulations in regard to the sale umber. It is also said, and there appears to bo considerable proof forthcoming, that this combination have not only undertaken to set prices and say how much lumber was to be handled at each point, but have even refused to deal with any lumber merchant outside of the combination. There is not a farmer in Manitoba or the Northwest Territories who is not suffering more or le-s material of all kinds, and if it is on building prove that an organization if it is possible to the sooner its promoters can be dealt with better. The Grain-growers' Associations with hat spirit of business enterprise which farmerg verywhere should cultivate, have already let themselves be heard, and a petition will go befor the Federal Parliament during the present session, praying for an investigation as to the cause of
the present high prices of lumber. Meanwhil. the plesent high prices of lumber. Meanwhile,
those who must build, will do well to consider carefully not only the most economical material for their particular purpose, but also the wan each building that will give the gieatest advantages for the smallest outlay.

## Practical Experience.

eles on soil cultivation, siatention to the artiberience of prosperous farmers in different dis country for cars, as well been farming in thi methods practiced by men who are in a position to give advice should be of value. The season begull, but the farmer who combines intellect with muscle, carefully considering soil conditions, and have most profitable cultivation for each crop, will

As a minimizer of grocery bills, few things can

The sowing of the farmer largely determine what the world shall eat.

Now is the time to fulfill your free-planting vow. See to it at once ; you will never regret

A discontent with existing conditions is the chief source of the desire to improve them, and this desire is the mainspring of progress."-Lecky

Food until digested and assimilated is of no value to the partaker. Cultivate the habit of re-
taining, or, in other words, digesting aining, or, in other words, digesting, what you read in the " Farmer's Advocate.
The garden plot adds more to the comfort and health of the farmer and his kin than any other portion of like area which he owns. If you have not already made provision, attend to it at once. Now is the time.

Encourage the boys to devote their leisure time making wheelbarrows, wire winders, etc. This
will create, or at least strengthen, in them a taste for repairing or manufacturing many necessary contrivarces on the farm, which will prove helpful or farm imple be utilized to advantage in this way.

A little extra preparation on that field now may seem wasted time, but remember a finer which will be given to the crop at a later period, when much needed, and thus increase the productiveness of the field far in advance of tre extra

That the horse is the farmer's best friend will scarcely be disputed at this season. Treat him as such: see that his harness fits; that he is work is over, that he has as good an opportunity of kesting in comfort as can well be given him. 1t will all be returned with interest to the considerate owner.
All stockmen who are not in the habit of growing roots should this year break away from former methods and make provision for treating ing flesh-former the to that succulent, appetizthe case may summer-fullow if such can corner of last year's that you wi'l continue in the pood work predict larly as each spring-time come work as reg

## Inter-Imperial Postage

The announcement made in the last issue of had succeeded in his efe," that Sir Wm. Mulock on Canadian periodicals has been well received by thing to Great Britain, do much to furthed by the country, and should the Old Land, as was the result of Canada in letter rate, another of the Canadian lostmacter General's achievements. Our readers will do well to bear in mind that they can now send papers to their friends in the Old Country at the same rate as from point to point in Canada. those who wish to send either advantage of by "Farmer's Advocate," or the paper for a of the year, to friends across the sea. It will now more than ever, be a good missionary abroad for Canada. We regret to say, however, that thus reduce the postage on British have declined to to Canada. As to the rate of postage an papers to Australia, New Zealand, and postage on papers the Empire, Sir Wim. Mulock has been conducting negotiations with the various Governments con cemed in order to make a similar reduction as on periodicals to Great Britain, and may be re ied upon to continue his efforts in that direction until successful. The establishment of free rural should be inaugurated is another reform which should be inaugurated at the earliest possible

Railway Regulation and the Farmer. the Federal Parliament that they were for the To the Editor "Farmer's Advocato ".
 Staniord University, California, which to the
ordinary farmer contains several extraondinary ordinary farmer
statements. He tells us that costs and distance
 eassential factors. "What are they-WYeterad stocks
and bonds and "all the trambe will bear;" and and bonds and "all the traffic will bear," and
"the pubbic be whe puil Professor enlightan us? He points out that there are weaknesses in the laws appointing
these commissions. Here I agree with him, and if this country appoints a commission, these we
want to avoid.
He tells
us that the judicial bodies have to pass on them at the last resort. Now, here is the rock on which all other commissions have split, and we must avoid that.
We want no such provision; we want a commis. We want no such provision; we want a commis-
sion with the simple powers of an ordinary jury. They have the power to try the law as well as
the case ; their decision is final. If the law is bed, so much the worse for the law. If we let
the law be the final arbiter, there will be no end to litigation and no redress of grievances. It's no use to point to England, for they are in quite
as bad a position as we in Camada in regard to as bad a position as we in Canade in regand to
freight rates. I understand that twenty miles from London you can ship goods to France and trom to Loondon for losss maney than you cam ship
therect to London. II this a case of compromise?
dire direct to London. Is this a oase of compramise? meportant question in Canada to-day, which is important question in Canada to-day, which is
true. And this is the question our agricultural papers and farmers' institutes want to discuss,
rather than how to produce goods, for all de rather than how to produce goods, for all de-
pends on the price we get when produced. We have already made two lords in cormection with have aiready made
the C.P.R., and it it goess on charging present
rates for passengers and freight, we are likely to mates more. Is this a case of Empire building Prof. Mclean says Argentina is our great com-
petitor. In this I think he is entirely mistakeul Russia. is our great competitoo. She is driving
us out of the egg market in Britain; in butter ss out of the egg market in Britain; in butter
bhe is up to us, and is coming on in cheese and she is up to us, and is coming on in cherse and
pacon. As for wheat, Siberia is a country mucb aike our Northwest and Manitobe, of muoh larger extent, and can raise wheat quite as good and is
settling up much faster. It has a through rail-

 five cents), and a freight rate less than half.
This railroad is owned by the Gavernment, and is not rum to make mone' pailways declares, "to place their groods in the work's markets below all combpetitors.' What is our Minister of Railways doing ? To
Hisy testing cattleguards ! Mr. McLean con busy testing cattle-guards ! Mr. McLean con-
tends that this question is beset with difficulties, some of them imposssibe of solution. Does Mr.
McLean believe this? If so, he will finid few
Iot carmers who agree with him. Is it possible that ur legislators have given powers to railroad
 Koran. When he wanted to give great weight onundrum which no main could guess. It is
 ent, but state
Canada want : a
1 st , we want a commission, with ample powera 1st, we want a commission, with ampte powera
Lo campel the railway corporations to show what hey have done with the $\$ 300,000,000$ the people of Canaida have given them to help buill their have put into them. watered stockB and bonds. squeezed out, and that ". witless" fhifteen per cent
profit clause in their charters, that MM. McLean all
ells us about, re enforced.
atid we want a two-cont per mile passenge ate, and a freight rate on our heavily suansidized ailways and steamships that will place our prod
cts on the markets of the world cheaper than icts on the markets of the world cheaper than
ill competitors, regardless of what the United itates, Argentina, Russia or any other country This is going to be a big and long fight, and ur friends will have to stand up and be counter
ne of these days. It would be well for our legislantors and papers to show which side they
are on, and not be led away by the writings of some one who may be in the employ of the cor-
porations.
FRANCIS VAN DE BOGART. [Editorial Note.-It would be unfortuunate if
Lhe Canadian Railway Commission were invested only with "the simple powers of an ordinary ury." In the Province of Ontario, where our orrespondent resides, it is only in a very limitod class of cases that juries determine the law as well as the facts, and even in these, juddges have he power to say whether there suficy at all. ence to allow the case to go to the fury at all The question has airealy local roads sthbsidized by Provincial grants could, by a declaration of
"general aidvantage of Cararada," be made stubject o Federal control. The chances of juidgment, however, would be in favor of the Dominion. There will also be dificulty in controlling the contract which provides that its in the original be reduced until the road earns ten per cent not the capital invested in its construction. When the C.P.R. received power to increase it canite stock from $\$ 65,000,000$ to $\$ 85,000,000$, a refer ence to the Supreme Court was agreed upon to determine just what amount actually was inrested in the construction of the Canadian Pacific. The public would like to know that, and cient regulation of rates on roads that and oflcient regulation of rates on roads that have cost people so much, and the prevention of discrimination of the commission, beonver it is tho creal that the exercise of its powers in is very fikely thus involving litigation, but if Parliament doee its duty the commission should in the-end secure practical aovereignty over the railiways of the country. In another column we give an outline of the Railway Commission Bill as submitted to Parlia nent last week.]


## A Change of Front.

Commenting on the new regulations regarding America, the Scottish Farmer conclude
". The policy of the United States with referance to Channel lsland cattle is peculiar. Many Uhings in the United States are peculiar, and one more or less need not put us out. It appears that Mr. Salmon $h$ his Bureau are convinced Islands are so absolutely free of tuberculosis that they and they alone of all cattle may now be entered at any port in the United States without undergoing the tuberculin test. This indicates a very astonishing change of front on the part of official persons. We do not understand it. The reasoning is faulty. If Channel sland cattle are so healthy, the test will not do them any hamn, and it is too much to ask us to belleve the herr fredom fro Acooding to every cause of the new ordinance. According to every he healthier in Great Britain than on the coast of France. Their alleged healthfulness does not demonstrate that human and bovine tubenculosis
is not the same disease. The logic of the situais not the same disease. The logic of the stuatest in the United States. If dairy cattle of the deapest milking propensity are absolutely free of tuberculosis, there is no such disease as tulbercu-
losis. The action of Mr. Salmon's Bureap is definable as humbug.

The Railway Commission Bill.
The Hon. A. G. Blair, Minister of Railways, in introducing his amended Railway Commission Bill Ote House of Commons at Ottawa, on March 20h, very properis laid down this proposition, culture, which far surpassed all other interests." it proposes in the first place to abolish the presont Railway Committee of the Privy Gouncil, and he Government place a tribunal io control the operation of railways, rates, trains, equipment, the protection of crossings, and also, we presume, freight shipments which involve part carriage by vater. It witt, Ithe other railway commisions, give publicity to rates, etc., in which there is safety for the people. In its powers it is claimed to go beyond any previous legislation, and to avoid the weaknesses of other commiseione. It ie to be judge as to both law and fact ; but there is a right to appeal to the Supreme Court when the jurisdiction of the commission is attacked, and on cil or Cabinet Is there not arear in latter proviso, when great grave danger in the rights of people re transportation are at stake, that the Commission might become involved with the political exigencies of the Government of the duy? The noll aims to remove long and Hiort haul iscriminations, provide uniform rates of classification, and the Commission is empowered to alter these rates and control tolls. The Intorcolonial Rallway (Government inne) is exempt from ly so, ly so, o charter.
Freight rates are classified under three lieads, standard, special, and competitive. Standard rates are to be fixed by the Commission, after application by the railways; the rallway schedule may or may not be accepted by the Commission, and the decision of the Commission shall stend special rates would cover the carrtage of coul lumber, grain and similar commodities, and competitive rates might result from reduced charges between given points under certein conditions, but the board will have the power to disallow these shall give to thippe the line. The rallway decreesed res an ten decrease

The board will consist of three or five mambers, Mr. Blair preferring three, but the number is left blank until the bill reaches the committee stage, when all its provisions will be fully diecussed. The commastion ta to record. The term of the appointment of commissioners shail bo ton years, but they shall be eligible to re-appointment. The age limit in to
be seventy-ive years. The commiasioners ahall bo removable only by the The commissioners shall be cil, and then upon cause. One meenber of the commission may hold a hearing, providing the
matter be not contentious. The place of meet ings shal pe movable on consent of the Govern-
ment. A majority of the Commission will decide ment.

## Big Feeding Test.

Professor W. J. Kennedy, head of the Animal Husbandry Departmant of the lowe Agrioultural College, has completed final arrangements for the mammoth cattle-feeding experiments to be conducted on the Cook farms, Odebolt, Lowa. The by Professors Kennedy and Marshall into tan lot of fifty animals each work are taken up: (1) Acelimation' tent, (2) light, medium, and heavy rations : (8) by-prodblood

None of the lots will be fed any stock foods, as the manyfacturers would not enter this year test on the same ground that they did last year and those complied with by the manutacturers of
the other foods which are being fed this year. The feeding is being done by Newton c. Rew, a graduate of the College. Full details and re-
sults of the work will be published at the consults of the work
clusion of the test.

With the scarcity of help that prevalls this year, it will be more than ever necessary for the
employer and employee to maintain a mutual employer and employee to maintain a mutual
understanding; cultivate politeness and alcon-
sideration for others. Chirity covers a multitude of sins.

## Stock.

## Our Seottish Letter.

During the past three weeks, notable horse shows have been held in London, many of the Britioh Experiment Stations have issued useful accounts of their work, and the splendid record made by Shorthorns continues unbroken. The London Hackney Show was an unqualiined success. His Majesty the King did hi best for all the three London shows, with the result
that they bad phenomenal attendances. The Hackneys are at present heirs The Hackneys are at present being subbjected to good deal of criticism. Some of it is undeeserved, b/
a good deal of it comes to the point. There if a disposition to kick at the prevalence of chestnut celors with their ine itable accompaniment, white markkngs. Hackuey is aur ideal harness-horse sire. For harniess horses men do not want heht colored horsses, and the undue prevalence of these colors is withou doubt inimical to the interest of the breeders of ordinary commercial horses. The majority of the Hackneys shown this year were chestnuts with a super abundance of white markings. The sire which made by far the best show for haruess purposes was His Majesty. His produce were well-colored, big, harnassy mares with good feet, sound limbs, and capital action. Rosador shows good show stock, but the bright chestnut and the superabundant white markings are very noticeable in his stock. Garton Duke of
Connaught was sire of some of the best animanals in the connaught was sire of some of the best animals in the
show, includionk the champion stallion. His stock are excedingly useful, crith plenty of size and wonderful atbion. The favorte among the fervales was. his daughter, Queen of the South, a whole-colored dark
chestnut, which walks and trots to pericetion. chestnut, which waiks and trots to perfection. Her
full sister, Gueen of the West, has greater substance
 cosflut show mare. Both were deffated for the
supreme honor by a Rosador two-year-old fill. The supreme honor by a Rosador two-year-old filly. The
award was followed by an unwonted outburst of awara, was followed by an unworted outburst of
popular indignation. Inever before witnessed such a
 sisted of this filly and her two full sisters-certainly a unique collection. Royal Danegelt is breeding very
true to type, color and character. His produce have true to type, color and character. His produce have
not the size of that from Garton Duke, and they lack the valuabie commercial appearance of the produce of
His Majesty.
Still, they have so much breed quality that they may rank very high in perpetuating the breed. The most successful Scotiish studs at London were
those of Mr. C. E. Galbraith, Terregles, Dumfries. (which provided the male champion). and Mr. William Scott. Thornhome, Carluke, Lanarkshire, which pro-
vided the frst threenyear-old and reserve poon femate. This filly is named Bryony, and was
 extraordinary dam. She has had many foals, and never had a bad one, while several have gone to the
top in the keenest competition. Her site was Mons top in the keenest competition. Her site was Moor's
Confidence 163 a ${ }^{\text {a }}$ horse whose female produce have turned out unusually successfal as brood mares. Mr Scott is owner of the choicely-bred horse, Mathias, a son of the great champlon mare. Ophelia. Mares are
cominc to ethis horee from Sir Cillert Grenall coming to this horse from Sir Gilbert Grenall and
other prominent breeders in England. Bryony is other prominent breders in England. Bryony is a
beautian, whole-colored dark brown, and she has a full sister, one year younger, which gives great promise or the future. She was narieed in London, and will yet do more. Mir. Scott keeps a choice lot of Huckheys about him. The largest stud in Scot land at
present is that of Mr. Alexander Morton, Gowanbank Tarvel, Ayrshire. In fact, Mr. Morton's stud is one of the largest in Great Britain. He was himself one
of the ludges at of the judges at London, and, therefore, did not show,
Both he nnd Mr. Scott will hold public nuction salles oth he nnd Mr. Scott will hold public
com their studs towards the close of April CATTLE SALES have been numerous of late, and great prices have once more to be recorded for Short-
horns.
The Rirmingham Spring Sale was a
event. There was a big entry of mulls and heifers. young breeder, near Bletchley, in Northampton, got the highest price, \&315, for a young bull, but the best This was £158 13s. Lord Lovat has a unique herd. All the leanding bull breeders, such ns Mr. Duthie, have in a high state of efficiency for a long series of yeare The Inwsons, father and son, have buit up a rerea Mrd of good Shorthorns for the head of the Frasers

T. ORAWFORD NORRIS, M. P. P. Griswold, Manitnba.

Bell, Ratcheugh, Atnwick, in Northumberland, and Car from the Scottish border, has for some years past
been huilding up a fine collection, and in a a unique wo He has crossed cows of Cruickshank descent with y hat
is called an English-bred bull. By this is ment a bull in which Booth blood predominates. This system has proved most sucerssiul in M. M. Bell's hands. He
had
had had an unreserved sale the other day and realized
splendid prices. His fifteen bulls made an average of splendid prices. His fifteen bulls made an average of
$\mathbf{x} 127$
2s.
5d., one of them named Baron Ratcheugh going as high as $£ 5305 \mathrm{~s}$. The thirty-nine cows and heilers made an average of £45 9s. 6d. The Argentine operat ors are making the most of our suceessfrul sales.
Thir Their ports are now open, and, apparently, there is
an unlimited demand for high-class pedigreed stock. an unlimited demand for high-class pedigreed stock.
All the bulls at Ratcheugh, but one, were bought for the Argentine, and a large proportion of those sold at Birmingham went the same way. The neighboring
State State of Uruguay is taking Herefords. A large shipment of these superb cattle left London lately for
Uruguay. The country is opening up all round, and truguay The country is opening up all round, and Experiments in this country are more and more taking a practical form. Two interesting evperiments
have lately been made in oat growing Thave lately been made in ont growing. The aim was
to find out the most profitable oat. Four new varie 1o find out the most proftable oat. Four new variee
ties. Abundance, Newmarket, Goldifinder and Waverley, came out best. This experiment was carried out at arforth, in Yorkshlre. An experiment on potat ores
was conducted at Holues Chapel, in Cheshire. it has Was conducted at Holues Chapel, in Cheshire th has
been koing on tor seven seansons, the aim being to get at to popular faver. The simple fact anout now aspirants is that the best soon , wive way, nunt the new varieties
alone seem capable of facistinn tho alone semm capable of resisting the blifht E. Eventually.
most of them succumb. There most of them succumb. There is. therefore, veed for
constant vigilance, nnal any new sort is sure of $n$ fuin onsant rigitance, and any new sort is sure of a fait

farly manitoba lambs.
RARLY MANITOBA LAMBS.
Corner in the farmyard of J. H. Clark, Meadowlea, Naren

## Sheop-raising in Manitoba.

To tome Practical Experience
Sir, -In attending the lectures at the live-stock convention lately held in Winnipeg, I was rath struck with the idea that most of the lectures large management were-more suitable for ve Manitoba, notably Mr. McQueen's, on sheerm of ing. From his standpoint as a sheep rancher, chould think his management excellent, and think myself capable of criticising it, but I think discussion through the press helps to bring ou impress them on our memory, and is also of bene it to those who were not fortunate enough to b present. What 1 should like to see in Manitobe a small flock of about thirty ewes on every
half-section, and these of the very best high arad and pure-breds of the short-wooled breeds, breeding early lambs for the table and rams for the ranges. I am confident that such flocks woul be of incalculable benefit to Manitoba. I can
state from my own experience, that with very state from my own experience, that with very
ordinary care they will pay about seventy-fiv per cent. on the money invested, and the indirect benefits they confer are very considerable. As scavengers they are unexcelled. All weeds are
cleaned up wherever they have access, and no seeds that have passed through a sheep will ever grow. Grass they have grazed off improves in quality from year to year, and scrub dies out in arly as possible, so as to be ready to go off be fore grass gets scarce. Of course, this entails setter care, and a warner building for the winter, but for a small flock on a small farm I think t pays. I have found that with the free use o ing, though occasionally, in the case of twin lambs with young ewes, a lamb is apt to be chilled, and if not found in time is lost. Strong hage raised 55 lambs from 35 ewes, but as geperal thing 1 just double the flock after deduct inf losses. This year, from one cause and an fther, I have not beep lucky, having lost some with thirteen ewes lambed. Wolves are not a destructive as people imagine. In twenty years 1 have lost, I i think, about ten sheep by wolves, and six by dogs. The last were all killed at one time, and five of the others were killed by the hame bells on a number of the sheep, and this seems to frighten of both wolves and dogs. I sow about an acre or two of rape in such a situa-
tion that I can let the sheep run onto it from the pasture at will. For a week or so they from the pasture at will. For a week or so they go onto have a free run to it, and I have practically no loss from bloat. Always use the best ram obtainable of the breed of your choice, and stick to one would like to hear from you again. (. HAWKINS.
Lorne Municipality, Man. A.

## Birmingham Spring Show and Sale.

At no other place can we find a larger, more at this annual selection of Shorthorn bullis than every March in the Bingley Hall Birmingham. Here we find very many of the best herds in the country represented, and there resort buyers from years, the A. After an absence of two reckoned with. One of them secured the topprice animal of the sale at 300 gs , a choicelybed calf, from Mr. H. S. Leon's herid, Mr. horns as his Lincoln sheep known for his Shorthrors as his Lincoln sheep, being the runner-up. Argentine, more went to Ohili, land. The demand was a very sound one, and all the best sold well. The average price for the $\$ 190$. Lord Lovat's herd from Scotland was well to $\$ 250$ prize for best five bulls bred by exhibitior Mr. G. Freeman coming in for second honors and as r . n . The class making Mr . J. Deame Willis was that for bulls baween the highest average months old, which was £89, but there were only hirteen in the class. The highest-priced animal, ifteen months the class aged between, twelve and and the awerace wos $f 4410 \mathrm{~S}$. one who was one of the judges, Mr. Duthie, there were a lot of grand animals amongst them. This is plainly borne ont by the averages realized, for save in one class there was no reserve bid al-
lowed theyond the upset price of $\$ 100$, and few, if
any, were teally any, were really worth less than $t h$ is feceive a very hearty welcomedian buyers would eceive a very harty welcome to this sale, and
they would be sure to meet with animals worthy
of bing taken to their country, to which so very
many of the lust have heen takion


## A Stockman Visits the Old Sod.

## To the willo i" (Second letter.)

In my former treatise I wrote of impressions on my trip here, and of horses, etc. This time I will confine myself to a sketch of my native Borderland, its pastoral scenes, and breeds of
Cheviot and Border Leicester sheep. Cheviot and Border Leicester sheep
No part of all this wide world seems half so has been more immortalized, in song No part through the former scenes of many hattles bo through the former scenes of many battles bo-
tween England and Scotland, than this same spot. All up and down its classic vales are scattered old castles, monuments, abbeys, and a host of other landmarks. Within its sacred area. runs
the historical Yarrow, which hundreds of poets have immortalized in verse, and over in a sister vale runs the famous Ettrick, which boasts of drawing out the muse of Hogg, the Eitrick Shepherd, while on its banks lived the famous Thes.
Roston, the author of "The four-fold state ., All over this historic country of mountain, streams and shaggy heath, pasturing peaceably,
in striking contrast to the stormy times of 200 vears ago," are found the famous Cheviot sheep. This breed forms almost the sole inhabitants of other original border breed, supply the Lowlands,
and inded all and indeed all Scotland, with the sheep known as half-breeds. This hall-breed is a cross between a
Leicester ram and a Cheviot ewe. This mating of two distinct breeds gives results not otherwise obtainable, and, contrary to the common belief, cannot be repeated by mating the ofispring of the sheep named. Experience is against this, as the
first cross is most in demand. The half-bred ewe, the result of the cross, is mated again to a Leicester ram, and a threequarter-bred lamb is produced, but this breeding is merely for muttonproducing purposes.
Being fortunate
Bnual supper give in getting an invitation to an Annual supper, given by Mr . John Anderson, of
Alemoor, every year to a few worthy cronies of his own choosing, about New Year's, I embraced the opportunity as one of the treats of my life,
and I was not disappointed. I might mention and I was not disappointed. I might mention
that Mr. Anderson took a trip throver Canada, and home by the United States, and that while in Canada he stopped of at Carberry and honored me with a visit. Somehow or other a supper at
the end of a long tramp through heather hills and flowing streams has a romance about it which does not belbng to anywhere else. When tumhling over sheep drains, crossing flooded streams, nd climbing heather-clad hills, dreams of flour (ggs, such as are only known in these pastoral egions, fitted across my brain. The festal board
far surpassed my best imazinations: indeed, ar surpassed my best imapinations: indeed, I
don't think I ever partook of a heartier supper in my life. waster we had finished supper, a thumping sound declared it was the cook baking, as we had eaten
every particle of bread in the house. The return
C. P. R. stook-yards, duniore, Xhw. T.
journey was no less romantic, for it wis pitch
dark, and every hollow was running wit water, from recent rains, and being a novice at hegotia ting sheop drains, I more than once fell of tht into the middle of them, and had to crawl of on all
fours. On another occasion I visited vale of Teviot, divided from Alewater by a waters shed. These watersheds are just hills, which rise gradually to a top, and then descond the same
way into another valley and river middle. My road lay past the Town or Hawick a tweed manufacturing center, and which in future will have more than a local significance atteched to it, being in the immediate vicinity of the
ground recently purchased by the War Oomice tol ground recontly purchased by the War Office for
rausing soldiers the art of war over this hilly Crauning soldiers the art of war over this hilly
country, Some 40,000 soldiers, I understand will be permanently located there. At Hawick Saw the annual Fat Stock Show and sele of Messis. $A$. Oliver \& Son, and among other things
saw young sheep under a year sell for $\$ 15$ apiece which has not been reached for twenty years aid lenst. Passing up the Teviot valley, we come to the estate of Harden, with its historical mansionhouse standing on an eminence and overlooking
the River Teviot. This house and surruanding have a country-wide notoriety, being the place where the notorious Watt seott, the border relver, or as we would now call it, "cattle stealer,"
used to live. Two hundred years aleo in the used to live. Two hundred years ago, in the
troublous times between England and scotland these cattle stealers made railding excursions over the border into England, then in a state of war and laid their hands on whatever catile they pointed out in front of the house where they used to keep their cattle under guard all night, 8 or "might was right" in those days, and the Engstealing. To own any stock these days, the owner had to be prepared to defend them.
na No better place could be found for the purpose nawea, a deep glen, surrounded on three sides by them, with an stening to the south, which history tells us was guarded by Scott's men during night,
when the ing this was danger of an attack. OverlookHarden house. some parts of which have been added lately, but the old part of 200 years ago is still preserved. I had the luck to see all ings are chastely decorated with figures, trophies of the decorator's art. Over the huge fireplace is shown the hole where hung the hook for roasting
the bullocks. Outside in front, and overlooking the glen, there is a door, near the ground at the south-east corner, presumably having been a door into a subterranean passaae. which connected with
some other house at a distance some other house at a dist ance. On the under
side of the unper door-lintel, is oresumably a coat of arms (half moon, star and face), engraved on stone, and under is the date 1871 .
The windows show sisns of having been firmly
ouarded by iron stanchions Watt Scotr Harden, was captured in the fortunes of war, and carried prisoner ło Flibank, another Scotch estate on the Tweed. and there had the ontion of
hanging or marrying Murray of Elibank's daugh-
ter. Scott preferred the latter, and from the
union has proceeded the modern house of Pol warth. travels took mo ave south later My travels took me away down south later,
and over the borders into England; through the rich agricultural, gently sloping farms of Berwick-
shire shire, on the Sootech silde, and Northumberland on ing skyward, the famous Cheviot hills, and on the plain resting at the foot, Flodden's battlefeld,
which ended a company went over the borders on that Iatil day, and never returned to tell the tale. "wase
on that great calamity. that the famous song, the on that greai calamity that the famous song, the
Town of Selkirk's Natlonal Anthem, was compown ore Theikir's National Anthem, was
pomposed. The fowers of the forest are all wed
awey. Still preserved in she foeping, although
much decajed by age, is the flag that the lew
 back from the bloody field.
JOHN GRAHAM.
Condition of Range Stoek.
The condition of range stok is not, on the Whole, as favorable this spring as usual in South-
erin Alberta. Up till the first of warch the winter was all that could be desitred. There were no heary storms, but enough snow to give neecessary moisture and ereate conditions of thrift. ghene walluy no no cruist formed, the tonthor wns In some places grasses suifered a good deal from prairie fires, and in a few cases considerable hay that had heen stacked was burned, Thic hap-
pened in the Littlo Bow country more particupened in the Littio Bow country more particuthere was a neecesity on the part of the Government to co-operato more vigorously with the
ranchers for the conservation of the foed of the ranges. This destruction of grasese has made
the wintering of stock in some places a little more precarious.
There will be some loses this year ; to what There will be some loses this year; to what
extent cannot bo escertained until the riders beextent connot The causeined the severe weather of
gin to work.
the month of March . from the first of March til the third week there has been. pretty sovere weather ; there has been heavy frost nearly every night. The diffculty, however, has not been so much due to cold as to heavy snowfalls. Constant
cold at the end of the season, when the cattle are thin, is wearing and reducing on the stock. There is a, strip of country between Mcheod and Medicine Hat that has had good weather and not much
snow. West of McLeod, and both north and souw. the snowall has been heavv. The whole
circle away from the MeT eod. Thrideo and circle, away from the MeLLood, Lethbridese and
Medicine Hat country will suffer some. This inclodes the Porcupire Hills, Pincher Creek, Moundistricts, and includes the rance of Maple Creek Cochrane, McIntyre and Knight outfits. The north country about Gleichen, has probablv not had more snow than usual. Considerable feeding is necessarv up in this district in any season. The
Cercle outitit will not suffer much. The snow in many places is from eighteen inches to two feet deep, and it has been heavily crushed by an in-
terrupted chinook. The cattle cannot travel in
this snow without becoming used up, and it is
hard to put a horse through it for more than hard to put a horse through it for more than
eight or ten miles a day. The cattle are being taken out in some cases by using snow-plows, Even where considerable feed has been put up the feeding has had to be continued so long that sup-
plies are exhausted, and cattle that have been fed plies are exhausted, and cattle that have been fed
for any. considerabile time refuise to get out and rustle arterwards
The stress of weather will affect the increase, as well as stock at present on the range. Cows
that have been exposed will be weaker than usual the calves will come weaker and also earlier, and will be apt to strike worse weather by coming
earlier, and both cow and calf will suffer. The earlier, and both cow and calf will suffer. The large proportion of dogie cattle on the range, from
the large importation of this class of stock within the large importation of this class of stock within
the pasit two or three years, will not tend to re duce the proportion of losses. The losses will no reach any very serious proportions, but on the
whole the cattle will suffer from the March whole th

## Milk Pever Prevention.

In support of the theory recently presented in
hese colamne thet a probable cause of so-called these columne thet e probable cause of so-called
mill fever, from which so many valuable cows have died, is the common and unnatural practice of minking the udder out clean immediately after calving, we note a letter in the Jersey Bulletin,
by Mr. Geo. F. Weston, Supt. of Biltmore Farms by Mr. Geo. F. Weston, Supt. of Biltmore Farms to the Island of Jersey, he wass surprised to visit that saveral of the leabing owners of deep milk-
ing cows had ceased to fear milk fever, and the ing cows had ceased to fear milk fever, and the
secret was that they hadd ceased to milk the cows out clean for the first three days after calving. first Weston says: "When this treatment was before me like a flash recollections of a large a favor tended with the explanation, We milked her out clean. In fact, there were times when we have done the same thing here, and I believe every breeder has done slo. It now begins to look as
if this was about the worst thing we could have done." Wheeler, Veterinarian for Biltmore Farms, has been experimenting along the lines of this theory, and he writes that since November 1st, fourteon of which are among the heariest milkers in the herd, nio other measures heviest been used, not even a pound of salts being ad,minoccurred, nor a sign of it, which is umipreceddented in the hend. Only four cows have memifested udder derangement under this treatment, three of which had had udder troubles after previous calvings, and only one, not a serious case, dedeveloped anyhow. "The modus operandi consists simply in milking from two to three pounds every six hours after calving, for the first three
days, or about one gallon to $a$ gallon and $a$ half in twenty-four hours. After the third day, may milk the oow clean. In other words, ease the udider in the same manner the calf would, only drawing the milk equally from each quarter, Ir. Wheeler does not claim that these fracts demonstrate the entire reliability of the treat-
ment, but considers it most encounaging, and slement, but considers it most encounaging, and de-
sires that others will give it a fair trial and resires that others will give it a fair trial and re-
port. The indications seem to point strongly to
the wisdom of getting back to nature in this the

Combating Animal Diseases.
Under authority of the act passed by the $U$. S. Congress last month, giving autiocratic p.ower
to the Secretary of Agrioulture in combeting contagious diseases of live stook, Secretary Wilson has issued new regulations which are thus conAll
All persons owning, managing or transporting gence to ascertain that exercise reasonable diligence to ascertain that the animals ane not afand have not been exposed to contagion by conpens, premises, cars or other vehicles contaminated by diseased animals, before offering them for transportation or introducing them into public stoock-yands, public highwavs, or lines of interstate traffic. All persons having charge of affect required to keep them confined, and not to permit other animals to come in contact with them. Public stodk-yards and feeding stations, alleys and pens, when contaminated by the presence of infectious disease, must be cleaned andd disinfected in the manner requined by the Secretery of Agriculture. Whenever a contagious or infectious disease exists the Secretary of Agriculture will
fuarantine the section of the coumtry where the duarantine the section of the country where the moved until he gives authority.
will be compensated after the value has been madertained. Violations of the regulations ar nor more than $\$ 1,000$, or by imprisornment of not more th

Range Stear Exparimpnt
A special letter to the "Farmer's Advocate
from Guelph, states that little change in genern from Guelph, states that little change in general
appearance is to be seen in the steers from the appearance is to be seen in the steers from the
Northwest Territory that are being expertmented with. Of the nine which are being fed at the Agricultural College, five are in one bunch, and
are now receiving each day 120 pounds turnips, are now receiving each day 120 pounds turnips,
20 pounds chop and 70 pounds hay, while the 20 pounds chop and 70 pounds hay, whits meal
other four get 90 , pounds turnips, 16 pounds meal and 55 pounds hay.
Of the ten being fed at Major Hoods', five are
tied, buit two of them do not appear to enjoy such tied, but two of them do not appear to enjoy such
close confinement. From all present appearances close confinement. From all present appearances, both lots will be fit for sale.

## What Should be Taught at the Present

 day Veterinary College ?The above question brings $i 0$ a focus the whatever the answer may be, it will undoubtedly throw light on the minimum of general prelim-
inary education which the intending veterinary inary education which the intending veterinary
student should possess, and also the shortes time in which it is possible for any man to acquire a thorough, professional education
FOR THE ADEQUATE PROTECTION OF


THOROUGHBRED MARE AND FOAL Flitters by Galopion, winner of the Derby, and foal by Martagon
THE PUBLIC, THE MINIMUM OF PRELIMINARY EDUCATION AND LENGTH OF TIME NARY COLLEGE SHOULD BE PRESCRIBED BY LAW ! It is insisted upon in Great
Britain, Manitoba,
Quebec, and the great stock Britain, Manitoba, Quebec, and the great stockraising States to the South; and it is inqumbent
on British Columbia, the Northwest Territorles, and Ontario, to at once pass a similar in ordes to avoid being the durnping-ground for a class of veterinarians possessing an inferior grade of pro-
fessional education. fessional education.
In passing, the question might be asked of the with that institution mean in regard to veterinary education? Has not this great Provincial tuted itself, by lending its mame and sanctiontithe antithesis of progress in professional educa tion? What has the Chancellor and the other high officials of the University to say in extenuation of their course in pandering to the cupidity profession? Having passed the high school entrance exequal to it, should be the minimum oneneral education possessed before any person be allowed to
enter the veterinary college. This standard is not at all vighe and and if a second-class certificate,
or its equivalent. were demanded. the adlvantan would be all ont, were demanded, the addventage
he might not think intending student he might not think so at the beginning, but
Would hefore he was through his professional
course. The shortest time in which it should be
possible for any matriculant to obtain a diploma.
and the right to practice, should be three colle giate years, each, at least, of six months' actual attendance at college by the student. I might here quote from the calendar of one of the lead ing U. S. Veterinary coleges: It is possible o earn money while attending college, but this short........!'" and the course at that college is a hree-year one !
Unless the two requirements, preliminary edu
ation necessary and length of professional cation necessary and length of professional stud
essential, are insisted upon, no up-to-date cours can be mapped out that will endow a man with sufficient training to differentiate him from the
diploma-holding quack. The insistence on the diploma-holding quack. The insistence on the of entrants into the profession, but it woul mean that a high grade of professiomal men would be turned out, and as a result more proft
able service be rendered to the feo-playing public At the outset it may be stated that the public (?) of the so-called veterinary oorreapondence diploma will not be discussed, beyond this state nent, that only the ignorant, excited by cupid ty, or those who have been misguided, will in ulge in the expansive attempt to take a shor dentials will be self-ovident as the course to be mapped out here is studied, and from the fact that they heve no recognized status. Similar to he agricultural, medical, legal, dental, engineer tures, or studying of text-books, are insufficien ores, or stuadying of text-books, are insufficien practice in the field, the hospital, the courts, th laboratory and the workshop is absolutely indispensable; in that great trinit
of senses, the eye and the hand must have equal place with the ear in the work of educating less this is done, the studen will not be a success make a living, or rightfuly earn the fees which he may re In a three-year course, the disposal of the vacation period
between the three sessions wil engage the intending student' attention. When possible, bot should be spent in practic narian, if general practiceter engage the attention of $t \mathrm{~h}$ student ; if he is to be an investigator, one of the vacations should be spent in a first-clas city student would do well to spend his first vacation on good stock farm, and thus be health. the second animals in in practice as mentioned spen The veterinary college of to-
day has several roles to fill to educate the man for genera practice, for meat and milk in spection, and for the investiga pecially those communicable t man. To accomplish th is great work, the raw material student, must be up to a certain standard which has already been touched upon. Thorough foundation of success for the stumentals is the ioner to be, whose interests the veterinary college is supposed to look after. The first year's work should include anatomy and physiology histology, chemistry, materia medica and phar tory should, in comparison with the lecture-rioom, be allotted at least, of the student's time, in the proportion of two to one. In anatomy, the great ssential is dissection and quizzies on the work of anatomy depends the practitioner's success physiology, or the workings of the animal body trust back up the construction (anatomy) of the same. Histology, or microscopic anatomy, is ab nvestigator and meat inspector: laboratiory in struction in this branch must me be unstintingly given; without it, it is impossible for any perso to hecome a pathologist. Chemistry embraces a wo be possessed of considerable knowledere of this banch to avoid incompatibles in prescribing; to know the action of the body fluids, and to be ble to perform urine analysis. Materia medica and both mineral, vegetable and the of drugs from and also the proper methods of prescribing and
dispensing those drugs.
Horseshoeing explains itself : an elementary knowledge of the principle inderlying the art are essential. Dentistry well known that horses especially are much sub-
ject to tooth troubles, which, if not attended to mean great loss to the owner. Another imp,0, to do away with any excuse for the itinerant so called veterinary deatist, who is to-day one of the most arrank who feed on the farming community charlafirst year the student will have found his time pretty well employed if he has been faithful, and
nothing less pays!
Secand and third year studies, while harder, are probably less irksome, beoause more interest-
ng to the average man. During the second ing to the average man. During the second tive anatomy (the construction and comparison of the bodies of the different domesticated animals). a very important subject, a knowledge of human life! It was knowledge of this subject comparative anatomy) which enabled a prominent veterinarian a few years ago to upset the
testimony of many physicians in a celebrated murder trial. The prosecution produced some hones, said to be those of the murdered person. but which were shown to the court by the vet but of a pig. More advanced work in physiology and chemistry is also taken up. In the second year, the midway of the professional course, the student is introduced to the theory and practice of veterinary medicine (the discussion of the
causes, treatment, and prevention of animal diseases), diseases of dogs ; veterinary obstetrics (the science treating of breeding, and the introduction into the world of the newhorn animuls);
parasitism, under which is discussed the effects and identification of worms and other parasites, and their riddance from affected stock ; veterinary surgery (the science involving the use of the knife), to rectify malformations, growths, etc., or or such purposes as of wounds : general paithology a dis cussion of diseased processes, and their identification by the naked eye or the microscope, in
which discussion the student will be introduced which discussion the student will be introduced field of contarious diseeses and their suppression. The third year will not only include a thorough review of the previous year's work, but
also ndvanced instruction in the diseases, their recognition (by means of clinics) and treatment secial pathology (in which diseases are referred o the organs affected); meat and milk, inspe :tion; advanced bacteriology; veterinary jurisprudence
(a course on the laws affecting the veterinarian particularly); the indications for the use of special with their actions (therapeutics) ion in the more important operations ; veterinary sanitary science or hygiene. It will thus
be seen that for the student to compass these be seen that for the student to compass these
subjects in the minimum time (three collegiate years, of six months each), he will be a very busy man, without a moment to waste. The mention of the studies must necessarily be brief, but one may be pardoned for again insisting on
a bountiful measure of clinical and laboratory work, the former in the hospital and operating nom, where the student will not only see, but will himselr assist in the performance of all necessary aparations; the dressing and removal of tion, trephining, suturing, and the hundred and ne conditions that may, arise in practice. In the laboratory he will test milk, analyve urine, make microscopical examinations of tissues ob-
tained from the living and the dead; identify germs, and, perhaps, find the cause of an expen-
sive, disastrous aniznotic disease, and bv his sive, disastrous aniznotic disease, and hv his
knowledge be enabled to suggest means to supknowledge be enabled to suggest means to suppress it ; he wint learn there if found by one of our foreign customers would result in an embargo on
all our live stock, and by his knowledge, obtained from divers sources in the course, be en bled to suggest to his farmer client and friend ful and profitable. The thinking man or woman will at once see the importance of a thorough cientific training for this great profession, and will agree with the formulating and passing of
laws which will prevent any institution attempting to kive less, either through too short a time
for professional study or accepting as students men without the necessary primary education
veterinarian

## A Little Girl's Chat.

"Oh, Mertie, what a nice bracelet; where did ou get it?"

Why, Sarah, didn't you know I got some (hev sent me this as a preminm: and see Pappa's knife. too ; isn't it a beauty? Dear "Advocate,"-I received your knife and
he bracelet, and I think it is all right. Thanks.

## Warbles.

Warbles in cattle is one of the insect pests tention to the matter. That they are painful to the cattle and injurious to hides, where these aro sold, there is no doubt, but there is very little systematic effort made to improve conditions. A
little time spent now, before the cattle go to grass, in pressing the grubs out or smothering grass, in pressing the grubs out or smothering with tar, will prevent them from further propaga-
tion. In summer the warble escapes from the tion. In summer the warble escapes from the
backs of the cattle, falls to the ground, goes into the pupal stage, and later comes out as a fly. These flies lay on the baoks of the cattle the eggs then works under the skin, and gives the animal trouble during the greater part of the winter and
spring. Knowing the life history of these inspects, it is sean how important it is to check them at this time of the year, as they are then most easily found and killed.

## Forses.

## The Hunter and Pony Shows.

 As typical of the interest that is takeen by no better example can be quoted than the enormous attendances which have, day after day, beenfound during the past three weels at the Royal Agricultural Hall, Islington. First came the weighty Shires, moving, notwithstanding their ponderous size, with agility and grace only exnoted Hackneys, whose breed monopolivetl this noted sthow hall during the second weelk; the (a) Thoroughbrod stallions competing for what are terined King's Premiums, being the money voted by Parliament in years gone by for the Queen s Plates, as they used to be termed ; (b) general Pony section
large and fashionable audience, but from the large and fashionable audience, but from the
spectacular point of view it was monotonous to spectacular point of view it was manotonous to
watch; the whole day being devoted to the awarding of the twenty-eight King's Premiums.
each of which is of the value of 8750 , the wineain of which is of the value of $\$ 750$, the windistricts. and bound to serve not less thap fifty mare. As to what are the restults secured by this allocation of public money in support of horsebreeding, considerable difference of opinion exists.
There are many who contefid the result does not justify the expenditure, and viewed in a general

DIVIDEAND (10739).
Pandora's Prince (10301); dam Darling VIII., by Cairnbrogie Stamp
Clydesdale stallion. Foaled April, 1898 ; sire Pandora's Prince (1039); dam Darling VIII., by Cairnbrogie Stamp.

way, it must be ardmitted that facts are much in uce is one which, if it hits, commands a good price ; but if it misses, is next to valueless for general commercial use. Howrever, as year suchence public money goes each year to support hence pubic money goes each year section of the live-stook industry, the producers of which are of very Imited numberse nineteenth annual show, the present one, secured an entry of real good merit and quality, but of oding years. Two days were given to thits section of the show, H.R.H. the Prince of Wales honoring the opening day by being present, and second day, on both of whioh the crowded hall and reserve seats fully testified how greatly this patronage of the Royal Family was appreciated by the general public. The classification was
upon the lines of former years, including classes upon the lines of former years, including classes dition this year classes wene provided for jumping, which, as always is the case, were very much appreciated,
To thiose who are interested in breeding this description of stock, the show offers an ungivalled opportunity to soe many of the best and most typical animials of this breed, and also a place
where most of those who are interested in breed ing anid using Fhinters can be soon and mot. The dates of these anpual fixtures being permanent,
only differing a day or so each vear, makes them only differing a day or so each vear, max
most convenient for this latter purpose.
most convenient for this latter purpose.
The last two days of the show were devoted to the exhibition of Polo ponies and ponies in general. It was an instructive and interesting
lisplay. The Polo men wre present clisplay. The Polo men were present in full force, and their breeding classes were brough
dut in grand condition. The whole of the young stock demanstrated the excellent restult that has been brought about by the excellent work of this society. Representative specimens of the High-
land. Dartmoor, New Forest, Dxmoor. land, Dartmoor, New Forest, Exmoor, Fell play. The getting together in one place of so many different varieties of the British pony is an exoellent idea, and it makes up a display which is certain to bring about improvement in mens of the equine race, which now and will be,
despite the advent of the motor car, of the highdespite the advent of the motor e
est commercial value and utilitv,
est commercial value and utilitv, throsigh the agricultural press, and most of the leading Lonion papers, the commentits ubpon these combined shows have been most comnlimentary, and the result of this year's show has been that not only has there been a murch larger
share of popular support accorded it, but the in-
terest taken in the several developpents aimed

at, particularly in the last two sections, has become so much more popular that increased suc-

Colic: Prevention and Cure.
At this season, when thousands of farm horses
suddenly being put to heavy work on the are suddenly being put to heavy work on the prairie, and are being introduced to a heavy grain
ration, cases of colic will not be uncommon. With ration, cases of colic will not be uncommon. With spoonful of ginger, fed each night in the oats, will io tone up the digestive organs that heavy, feedng may be carried on with moderate safety. drafts of water immediately after feeding. When an animal has fallen a victim to colic, administer as quickly as possible a drench composed as folweet spirits nitre, $1 \frac{1}{1}$ fluid ou.nces each, in one well-pint of water. If the first dose does not ring relief, it should be repeated in one hour.

## Farm.

## Hints to Beginmers.

Watch carefully those in your neighborhood whose fields are freest from weeds, and whose men to copy, and until you have established ideas
suitable to this Western soil and climate follow no others.

Prepare at once to adapt yoursalves change Pa : you will find it safer to adopt pre vailing Western methods th

With us labor is scarce, consequently labor aving machinery is a necessity. Four horse work, and in buying implements or farm machinery of any kind bear this in mind.

Mixed farming is safer than exclusive wheat rowing. A hailstorm, slight frost or extra dry pel may greatly damage the latter, whereas th more steady revenue.

In selecting a locality to make your home pay considerable allention to what the water ter than others, and good water is essential.

The West is a latge country, composed of
reat variety of soils and various climatic condigreat variety of soils and various climatic condi-
tions, which make some parts peculiarly adapted for grain-growing, and others for ranching, so that the beginner must first decide which
prefers and then selett his land accordingly

Some prefer open prairie, where the plow can vesidy prepare the ground for the golden har towards fuel and shelter, even if the land should be somewhat more broken. Both kinds are to b had, although the former is more frequent than the latter. See that you got
think will be most satisfying

In breaking the prairie sod, plow as shallow as the sod will turn, then when backsetting (plowing it thie second time), go deeper. This lightens the the sod.

Vegetables and roots of almost all kinds do
well. A small garden will repay abundantly well. A small garden will repay abundantly.
See that you grow a supply of the necessary vegetables.

Small fruits do best on a north or north-east exposure ; consider this, if possible, in selecting better, and, consequently, is also more healthy for building purposes

In choosing a location, the distance required to transport grain to market is an item worth conthe schoolhouse is worthy of serious thought

## Naming the Farm

Too much cannot be said in favor of giving the homestead a name, by which it may become dis-
tinguished in the district or Province in which it is situated. Most farmers who are breeding pure bred stock have taken advantage of this idea, and there is no reason why others who are making special efforts irr producing high-class products or
to have their premises appear homelike should not do likewise. It will influence the boys and girls to think more of home, and will lead them to take a greater interest in making it appear
beautiful. It costs nothing, and can certainly do o harm, but will rather tend toward making the aluable.

## Soil Cultivation.

Our soils in Manitoba and the Northwest are noted for their exceptional fertility, and for the ease with which they may be cultivated or worked.
In these two particulars they compare to great In these two particulars they conrpare to great
advantage with most soils in the Eastern Provadvantage with most soils in the Eastern may
inces and States, and while farmers here may have had, at times, to meet hardships, yet no blame has ever been attached to the soil in re spect to these two characteristics. In the early days of the West, the land was, for the most
part, taken up by settlers from these Eastern part, taken up by settlers from these Eastern often get bountiful crops with very little cultivation or work. This soon led many of the pioneers into slovenly ways of cultivation, the evil
effects of which are painfully evident to-day, in the foothold which noxious weeds have obtained in our soil. By hard experience they had to learn that the Western soil would repay them just
as profitably for proper, thorough cultivation, as any other soil in the parts from which they came. Those who are coming into the country now are in a position to profit by the experience of those
who were here before them. In view of the fact who were here before them. In view of the fact ting their "new" soil for the first time in their experience, a few suggestions may be timely The two outstanding characteristics of our soil
mentioned above, while they are really distinct. mentioned above, while they are really distinct same cause, viz, the large percentage of humus in the soil. Our soils are, for the most part, naturally clay loam soils, but the decay of heavy crops of prairie grass for ages has produced in it that
abundance of humus which gives it its rich darl color and good physical character. Humus in a soil has the two-fold effect mentioned. It opens up a clay soil, and renders it less clogy and cohesive-hence, more easily worked. ishumus has soluble or readily available plant food. It is the only medium in the soil that will retain the nitrates. The clay particles have some affinity for the phosphoric acid and potash, but little or
none for the soluble nitrates, which would leach away in the soil were-it not for the presence of humus. Therefore, the fertility of our soil is due largely to the power of the humus to retain the physical condition physical condition
pose in view : First we have a three-fold pur-seed-bed, and to give it a proper physical texture for plant growth ; secondly, to control noxious
weeds; and, thirdly, to conserve moisture weeds; and, thirdly, to conserve moisture. While second and third are particularly so with us. Our soil, which is so well adapted to raising the cereal crops, particularly wheat, is just as
suitable to the rapid propagation of noxious witable to the rapid propagation of houriong lax methods of cultivation and careless selection of seed, aided by the distributing influence of strong winds, we have our country seeded down with an endless variety of the most
noxious weeds. We cannot hope to eradicate these completely where they have once got a foo hold. They produce great quantities of seed which is of an oily nature, and thus have the power twenty years. These, when plowed under, lie dormant until they are again turned up near the surface. But we can keep them pretty well unde control, if we are careful to cultivate the lan ace soil of most of them, by cultivating to germinate the seed, and then destroying them be ore they seed. This method is very successful with the shorter-lived weeds. The perennials must be constantly cultivated to keep down the gree
top, and so starve the root until the plant dics The other important obiect we should dies. view in cultivating is to conserve moisture.
climate tends to be dry, and the soil quite often acks the moisture that is required by cereals for of rainfall to supply the crops, it quickly evapo rates from the soil. The capillary action of wate causes the moisture to rise in the soil to the on top, it is fanned away by the winds mulch capillary movement is very important in bringing The ground water up to the roots of the plants There should be a layer of loose, worked-up soil on the surface, to form a mulch to prevent the can be done by cultivating, and should be renewe rom time to time, so long as the land is bare In spring-sown land, the soil should be thoroughly cultivated to form a mulch that will be effective
in retaining moisture until the crop develons enough to cover the ground. To ceop develop sullts from the bare fallow, it is necessary to giv the soil frequent cultivation, of one kind or other
throughont the season. Fall cultivation, after the crop has been harvested, is decirable, because
it is effective in retaining the moisture of the fall rains fur the following cron. siderably deoper than spring plowing. The reasor
for this is found in the fact that the deeper
mulch thus furmed
some of the subsoil with the surface soil, also form a reservoir for the heavy sumimer ani ill be destroyed before the following sporing mulc a shallower one should be made, which will tain the moisture and yet allow the water to ris
to the seed-bed. Shallow plowing in spring desirable because it allows the moisture to is to the seed-bed, which is usually two to inches below the surface. These points are ticularly important if the spring be a dry on couraged to rise to the seed, and so induce germination and rapid growth
While I have dwelt on these two objects of cultivation as peculiarly important for the West have not overlooked the other requirements of cultivation with a view to controlling weeds will also have the effect of conserving moisture, keeping the soil in a friable condition, and meeting the other requirements of good cdltivation. It
is, therefore, very important for us to underst is, therefore, very importantivazion is understan portant for us in the West as anywhere else and that in cultivation we should particularly emphasize the eradication of weeds and the con

## Soil Moisture.

To farmers everywhere, it is well known in
a practical way that unless the soil contains a fair amount of moisture during the growing season, tical American agriculturist, who is considered an authority on all questions pertaining to soil cultivation, has said that at seed-time the soil contains enough moisture, if it could be conserved, of supply plants throughout their entir In this statem deal of truth, but the question arises under what methods of cultivation may the moisture be maintained, and what are the laws which govern its waste to turn our attention to that invaluable handmaid of practical agriculture, science, whose students divide all water contained in the soil into three classes. The first, called free water, includes that which lies upon the surface and is
present in greater quantities than the soil is capable of absorbing. Land containing free water must always be drained before agriculture can be
successfully carried on upon it. A second class successfully carried on upon it. A second class
to be considered is known as hygroscopic water and refers to that moisture which a dry soil is capable of absorbing from a moisture-laden atmos phere. This, of course, amounts to so little, even in an extremely dry season, as to be scarcely which may be largely controlled by cultivation is known as capillary water. It includes all the moisture that is capable of adhering to the tiny particles of soil, and from it plants derive all the constituents of food supply in the the different constituents of food supply in the soil.
To a correct understanding of how water is held, it is necessary to bear in mind that the soil is composed of minute particles, each one distinct in itself, those of clay being, of course, tains all the capillary water which it is capable of holding, each of these grains is surrounded by a thin film of water, and it will hence be readily understood that the more loosely they are held to one another up to a certain limit, the more water
will be held in a given area. The chief point to we borne in mind by the farmer in connection with this capillary water, is its peculiar faculty of becoming equalized throughout the soil. On and has been allowed to become firm, small pores are formed, through which the moisture is conveyed in every direction. So it is that when the
heat from the sun and dry, parrhing winds remove the moisture from the surface of land that lower strata continues rising to the water in the il the soil becomes practically dake its place, unThe question is sometinues asked why a sumuncultivated field lying near by. The reason is that the occasional cultivation which the fallow receives breaks off the pores through which the
water rises, and when it where the cultivantor has moved the to the point stopped : the loose surface forming a mulch to prevent further craporation. In this lies the principal ser ret of the summer-fallow as a storethe cultivation winch it receives improves the merhanical of soil that so separating the grains In preparing ihe lad in spring for a crop, the
more solid the low... lavers can be kept, as long will the moisctllu... tine to the bottom, the better rain $O$ it ismsil) to the roots of the give as fond a dratson spring plowing cannot
forth in search of food, having been stirred, is apt to admit the air freely to too great a depth.
t is, however, $\mathrm{in}_{\mathrm{n}}$ cultivating the summer-fallow and in growing root or other crops which admit
of intertillage that a knowledge of the move of intertillage that a knowledge of the move-
ments of soil water is of most value; and it ments of solilwater is of most value, and it two or three inches is essential to the economical saving of moisture. When a heavy rain has racked the upper layer, the harrow or cultivator
should be applied as soon as the land is dry else the capillary pores will become continuous to the surface, and the water which is so necessary to plant growth tend to become exhausted

## Soil Problems Discussed.

In the spring cultivation of land that has been summer-fallowed, use a cultivator that cuts all the ground, followed by plenty of harrowing both efore and after drilling, and the weeder either Iour inches high. If there is much couch grass or winter annual weeds, it may be necessary to sang-plow it.
Spring plowing should be four to six inches deep, followed by the sub-surface packer and har-
tows, if the weather is at all dry, seeding every lows, if the weather is at all dr5, seeding every
day's plowing before leaving it at night.
Harday's plowing before leaving it at night. Har-
rowing five or six days anter drilling is a good rowing fo give or six days aliter driling in a the start of the weeds. The summer-fallow nay be a good thing, but
think an occasional seeding to grass is better. think an occesional seeding to grass is better.
To follow any rotation with much advantage To follow any rotation with much advantage, into fields. There is nothing on the farm that
will givelbetter returns for what it costs than will givel better returns for what it costs than this. Sed with timothy or rye grass, or a mix-
ture of both, along with a grain crop; take a ture of both, along with a grain crop; take a
crop of hay off the first year, pasture the second, crop or hay of the first year, pasture the second,
and break up the third; then take off about three grain crops and seed down again.
The sub-surface packer is said to retain the
moisture in new plowed land moisture in new plowed land. I have used one
for three years, but cannot say positively that have seen any difference in the crop where it was used and where the land was given two strokes of the harrow instead of the packer; but the last two seasons have been so wet, and the one before
that so dry, that it did not make much diference that so dry, that it did not make. much difference
what was done. In a year that is moderately dry it would probably improve the crop, and it certainly settles the land down better than anything else I have tried, and rots the stubble and A very good it every day in thay winter, as manure it is made, on land intended to bo plowed for oats or barley in the spring, but it is apt to put a good many weed
seeds into the land. If a grass rotation is followed, a much better way to use the manure is to spread it on the grass intended for pasture next summer. The cattte will tread weed seeds into the ground and make them grow, and after-
wards eat the weeds off. The straw is also broken down, so that it does not bother while plowing.
Wallace Municipality.

## A Money Saver.

I am very pleased with the " Farmer's Advo-
cate."
I believe that a'great many of us who came to this valley from Ontario would be worth
$\$ 300.00$ more to-day had we three yea's ago taken $\$ 300.00$ more to-day had we three years ago takea
the "Farmer's Advocate," and gone by its advice.
Swan River, Man

## Soil Fertility.

[Paper read by C. L. Strachan, Associate Ontario Farmers' Institute. the Manitou Farmers' Institute.]
Our soil has been so richly supplied by nature that the process of cropping thus far growth not exhausted its fertility sufficiently to cause the farmer any particular anxiety. But the fact nevertheless remains, that our soil is gradually


RESIDENCE OF D. W. HoCUAIG.
becoming exhausted. This fact has been proved staff. He made analyses of soils that C. E. F. under cultivation for some twenty or twenty-five years, and compared them with the analyses of sults show from adjacent prairie land. The reparticularly in the available plant food. In view of this fact, even if we do not as yet feel the loss of fertility, I think we are justified in looking a it tle into this subject. Now, it is not my purpose to-day to advocate or to discuss at any in regand to commercial fertilizers that for general farming our soils have no need of them as yet. These fertilizers are always in a more or their present fertility, there would certainly be a great loss through them leaking away with heavy rains. They may be used with profit, however, on a market garden, or such cases where the crop-
ping is very exacting and intensive, ping is very exacting and intensive, and where
rapidity of growth, earliness and high quality of produce are important factors, where plants require to be forced. But for general farming, for growing cereal crops when the growing period exsider them. Lime may be profitably used in some cases, as we shall discuss later on. In regard to farmyard manure, the right and use of that we can. It is the very best general fertilizer that can be used. . It not only supplies upplie essential fertilizing constituents, but also matter, which is an important thing in all fertile foil. Another advantage it has over commercial or one year, that of the manure extends over several years. The plant food supplied is not all process available, but is grannally reeased as the ward regarding the manurial value of green crops
which are plowed under before they reach maturiyard manures. It is usually some leguminous crop that is used for this purpose, such as clover, vetches and peas. This class of plants have the power to take the free nitrogen from the air and
transform it into an avaflable plant food. The power is due to the presence in the soil of myriads of micro-organisms or bacteria, which inhabit the roots of these plants. It is these bacteria which have the power to take up the free nitrogen from the air and convert it inte pitrate, and so supply the plant with nitrogen in an available form. Our soils in Manitoba do not naturally contain these bacteria, and that is one reason
why clover and peas do not do so well with us. Our soils will have to be inoculated in some way with this class of bacteria. There is a prepered culture called nitrogeh, which contains this class
of bacteria, and which has been used succesofuly of bacteria, and which has been used successfully
at the Brandon Exp. Farm and in several experimental stations in the Western States. Another method of inoculating the soil is by taking a quantity of soil from inoculated localities, as Ontario or Castern States, and sowing in the dill
with the leguminous crops. The results were int each case markediy successful, and the tubercles formed upon the roots of the plants. The knowledge of these facts is one of the most valuable adiditions to agricultural science of recent years.
Nitrogen is the most expensive, as well as the most necessary, of the three essential fertilizing constituents which a soil is likely to require, it the farmer has to buy it in the form of commer cial fertilizer, so it is a great saving to the farn
er to have the plant get it free By fertility of soil we mean its productiven -its power to produce crops for us. This power depends upon the presence of the elements and
conditions required by plants for seed germintion and for plant growth and maturity. Einkpercionce and experiments heve teught ue that pitints it quire in the soil, air, moisture, heat and plant
food. The roots of a plant require air food. The roots of a plant require air just as
much as the leaves, and of course they require heat and moisture. If the soil lacks any one of these, or has a superabundance of any, it means death or, at least, retarded growth to the plants. moisture. These are ailways provided by natore But we can do much to hold them where the plant can get them, by keeping the soil in a prope condition. A fertile soil must be in a phat physical condition or texture to admit air and hold
moisture and heat, as welt as contin the sary plant food. You see, then, that the fertility sary plant food. You see, then, that the fertility
of the soil is influenced by the cultivation as well
as by the suppily of plant food as by the suppily of plant food.
consider the supply of plant food. Eivery fertile
soil must contain the ingredients which plants
take up tren take up through their roots and build up into tissues. Most soils contain an abundiance of
unany of these elements, but there are three-only inany of these elements, but there are three-only
three-of those essential to plant growth of three-of those essential to plant growth of which
soils are apt to become exhausted. nitrogen, phosphoric acid and potash, When we
speak of a soil being run out or exhausted, speak of a soil being run out or exhausited, we
mean that it lacks one or more of those three mean that it lacks one or more of those thred
elements. In their free or independent state, the elements. In their free or independent state, the stances, and the nitrogen is a gas. To be uwod by plants, the nitrogen must be united with other elements to form soluble nitrates ; the phosphoric acid must be united with other substances to must be in some soluble form.
food in arable soil possesses its stores of plan food in two forms: 1st, the inert or locked-up

is the insoluble forn, and is of practically no
value to the growing crop. The latter is the
toluble Foluble or available form, and is in a condition
solut
to be the plant and built up into its tissues, root stem, leaf and seed. A sandy or coarse gravelly soil may be just as rich in total plant food as th
best loam soil and yet be almost absolutely in fertile, for the reason that there is so little of it available for the immediate use of the plant Even in our most fertile soils there is a very mall proportion of the plant food in the avail able form, the greatier part of it is locked up and
inert. This condition is really of the utmost advantage. If this were not the case, our soils would soon lose their fertility by having their carried away. But this unavailable locked-up plant food in the soil is being gradually erted into the available form by the weathering ies.
ne kind of continuous cropping, especially with plant food is crop, the demand or the available plant food is greater than these agents can sup-
ply. The available plant food is diminished, and o the soil becomes run out or partially exhausted. We must assist the weather ing agents in this work by turning up and loosening the soi particles, and so exposing them to the action of
the air, rain, frost, light and heat of the sun.

## Spring Cultivation and Summer-fallow.

I believe in plenty of surface cultivation in the pring, on all ground intended for crop, if time allow, perhans, if it is clean, and it will be if the work is properly done, a stroke or'two with the harrow will do ahead of the drill in the spring but I prefer a wide-sheared cultivator as well, if ossible. I would not sow. on fall plowing at all in this district. I would sooner risk a crop on he stubble than on fall plowing, and then I would or plow grain in, and then put plenty of work on top, close after the plow. Summer-fallow, howver, is the most successful here, and ground lean on top after, with a wide sheared cultivator This surface work is the best way to kill weeds. and at the same time, it is the most effective way conserving moisture.
hat is, two crops, then fallow third year at least one crop, then fallow. When soil gets too fine, and void of humus, seed it down and pasture it a couple of years; then, perhaps, take a crop of
hay ; preak up again, and proceed as before. of curse, a great deal depends on the size of the farm, the number and kind of stock a man keeps.
I am still on new land myself, and have not yet. am still on new land myself, and have not yet and I think I would put the manureaching on the that,
are
ture field well ryotted ture field well rotted, and brush it in. This is a
wheat country, and we do not have to bother wheat country, and we do not have to bother
with barley, peas, corn, etc., as yet. Grass, wheat and summer-fallow has been successful here
FRED W. GREEN Mar.
Moose Jaw District.

## Cultivation on Clay Loam

my farm is of a dark clay loam, free from stone and eastly worked. On land that has been summer-fallowed, I harrow and then drill in the
seed as early as possible. After the summerfallow has been sowed, 1 then sow the fall plow-
ing in the same way. only a stroke of the harrow is needed after sowing. Land that has to be plowed in spring, I turn about six
then harrow, roll and drill in the seed In this district it is desirable to summer-fallow, as it prepares part of the land for a crop at
a slack time of the year. It also gives the land a rest, retains moisture and gives a letter crop.
1 prefer to summer-fallow once in four vears, taking two crops of wheat and one of oats. Plowtive plan of conserving soil moisture.
an The care and handling of manure I consider on important question. Al the manure collected curing summer, fall and winter I prefer to have
placed in a pile where it will heat and rot the
straw and destroy the weed seeds. Then in spring, just after the snow has gone and before seeding begins, I would spread it thin upon the
land, at the rate of about ten tons per acre. This I would plow deeply enough to cover all
manure, then harrow and roll. and afterwards drill in the wheat. Cuneron Municipality

## Best All-round Paper

## The 'Farmer's Advocate', is the best al

 ound farm paper I ever saw."Grafton, N. D.
Tillage.

At this season of the year tillage is a question
of vital import with the majority of our readers In this new country, where thousands farm who f.ever served their apprenticeship, we feel that tod
nuch can scarcely be said on this important subject. Years when the rainfall is conducive to heavy harvests on our present productive soil, the
matter of tillage may make but little difference in matter of tillage may make but little difference in
the fullness of granaries; but who in the springche fullness of granaries; but who in the spring-
time can tell what the summer will be? Should a dry spell come, the well-tilled field will continue to make satisfactory progress owing to the con-
dition of the soil, which allows but little wate dition of the soil, which allows but little water
to waste through evaporation. Most of us know that tillage changes the size of the soil particles, and the change in the size of these particles largely determines the temperature of the soil, and
also its power to hold moisture. A lumpy soil, during a dry spell, exposes unnecessary surface to the hot winds, and allows too much warm air to come in contact with the tiny rootlets, and thus
robs them of moisture, while at the same time the hard lumps prevent rootlets from penetrating freely and obtaining their natural food supply Tillage effects the texture, temperature, mi ure, air supply, and number of weeds of the
area tilled. Texture deals with the size oi the soil particles and their relation to each other, and as the size of the particles largely determines the water-holding capacity of the soil, its inportance will at once be seen. When land is in such izes it. freely, it is in good shape for seed-bed preparation, and the surface cultivation which is given at that time will form a loose mulch and future needs of the crop.
in considering the question of soil temperature In connection with tillage, it has been found that the stirring of the soil, so as to allow the warm
air to permeate the seed-bed, hastens germination and causes the fermentation of insoluble plant Cood, so as to render it in a form suitable for the young plants, to feed upon. Weeds rob the soil, crease the effects of droughts by drawing molsture from the soil without in any way giving compensation for it ; they deprive economic plants of
light and air, which virtually means life consume a large amount of plant food; they furnish a nidus for resting spores of certain fungi, and a breeding ground for insects ; they introdice
impurities into harvested crops, and they entail a impurities into harvested crops, and they entail a knows. The two easiest periods in which to kill weeds are, first, just after they have germinated
at this time tillage will at this time tillage will kill them by the thou
sand ; and, second, when they are in blossom

## The Lumber Combine.

Thos. Greenway, in an interview ridiculed Hon idea that there was no lumber combine. He said Western Canadian Lumbermen's A's:siation the buy only from the honorary member ; he must sell. only at the price fixed by the association he is
prohibited prohibited, except under stringent restrictions,
from doing business outside the district allotted to him; he is forbidden to do contracting, or to
supply lumber on a lump sum basis, and he is liable to heary fines or to suspension by the Se te association if he violates the regulations. On the
other hand. it is proviled other hand, it is provided by by-law that honor-
ary members shall not sell lumber. (imber or othon material usaloly sold in lumber sards to any firm of this association, subject to a fine of fifteen pel sale to a retail dealer outside the association Another clause specifies 'that suspeended or ex
felled members shall be boycotterl, and the nex clause instructs active members to make their
purchases only from honornery whole thing is most barefaced. The retail dealmembers, are not in favor of the combine. Many real masters of the association, but they dar not make a display of their feelings. The moment a member is suspended his supplies of lumber are ruined, in fact. The effect on the coumtry generally is entirely disustrous. I doubt whet her any
other agency has taken or is taking as much
money improperly from the farmers of this comntry as this iniquitous combine. The enormous
advance in the price of dressed lumber during the last few years could never have taken place except
through the put the price up all along the line steadily, and competition in Winnipeg, but at country proint ope monopoly is absolute. New lumber yards are
op a the the consent of the association If a man is daring enough to open a Dard at a
country point in opposition to the dealer who is
in the combine
lumber below cost until such times as the loper has been ruined, the association bear with the result that every building that costs more than it should. The burden thu
placed on the people is an intoler placed on the people is an intolerable one. ways, and no time should be lost in resortin every availahle means to break it up. fectiy obvious that the wholesale lumber dealers in refusing to sell to any but members of the ass
ciation, have placed themselves within the ciation, have placed themselves within the
sions of the criminal code. It is perfectly sions of the criminal code. It is perfectly clear
from clause 520 of the code that they are of an indictable offence, and as such liable to fines running up to $\$ 10,000$.
" Under the tarifl act
vestigation into any case of apparent combinat in cestigation into any case of apparent and combination
can be fact being proved. the Dominion Government is empowered to reduce or abolish the duties on the article as to which there is a combination.

## Road-making Criticism

## o the Editor "Farmer's Advoc

Sir,-ln your issue of March 5th, 1903 ther ture called on good roads, accompanied by a picpicture is a very good illustration of a very thad practice, and while the greater part of the pand is very good, yet with one-third of the words or given. In the tical information could have been for the road-machine in the ficture is in wati roads on sidehills and up and down ravines 0 the level prairie, and especially where sloughs As for general use, there is are no use at all. the level prairie sod, untouched by plow, scrapar or road-machine. The grass catches the first snow, and is excellent for a sleigh road, while a tu: npike is generally bare. If the weather is wet the latter is always greasy and almost impos powders up, and under no circumstances doe breaking up the tough prairie sod do anything
but injure the quality of the road but injure the quality of the road. The low places and waterways are the only parts to wor
on, or, at least, they require attention first. Thi can best be done by the plow and scraper, mostly the wheel scraper, and the work accomplished with
these will be useless unless proper prosision is made for the water to flow past the prstruction thus made. Good substantial culie ts and bridge should be properly placed wherever a Governinen official, practically capable of doing so, can be
had to make out the specifications soil makes good ballast, and a coat of gravel less than one foot deep, should form a road-bed eighteen inches above high-water mark. The work proper carrying out of the same taken for a proper carrying out of the same. There has
been thousands upon thousands of dollars spent and laid out on these same road-machines and their manipulation, on ground over which I am
constantly driving, which is worse than uselcss The papt of the road they were used on is mad worse than before, and they invariably quit just water helo should have started, viz., at every and leave well enough alone. Of course, this corish trusiness puts money into the hands of the Hranufacturers and the salesmen, and gives a nice
little remunerative jot to the operators, etc., but is the worst kind of economy to practice; renience to the people. and a loss and incon-

## Spring Caltivation.



Convenient and Inexpensive Farmhomse am thinking of building a house. Could you publish some plan of a simple, convenient farun-
house I would prefer a plain square building, substantial, yet at as small cost as possible. would like it arranged for a furnace in basement,
one set of stairs, one sitting-room, dining-room one set of stairs, one sitm, and five bedrooms.
kitchen, patatry bathroom, would prefer the bathroom to be downstairs, as
1 think the water can be got to it more easily, I think the water can be got to it more easily,
also less danger from frost.
SUBSCRIBER. also less danger
Cochrane, Alta.
The above is but one of several requests re-
ently received for plans of farmhouses, with celars, etc. Instear of giving a specisics, wither to
the above incirer, we have prepoued a we believe will be found suitable for many of our readers contemplating building. The plan given en
is for a frame house, 22 feet by 30 feet, with a is for a frame house, 22 feet by 30 feet, with a
summer kitchen or woodshed, 10 feet by 12 feet, at the rear. Of course, the plan co Id be enlan gei is much ornamentation put on extra as desired. In this country, where heating is such a large
item it is foolishness to build a house larger than s absolutely necessary. A brief description of the plan may be helpful. The front door opens into a hall, from which open the parlor and the
kitchen. The front stairway starts in the kitchen . The front stairway starts in the corner
to the left of the entrance. About six easy steps tound the bend leads up to the landing, with a straight stair from there to upper hall. A backway landing as the front stair. The cellar stair goos dawn from kitchon between the hall door and
the back stairs. The kitchen is the largest room The back stairs. The kitchen is the fargest room
in the house, with a $6 \times 6$ pantry off one conner, in the house, with a a $6 \times 6$ pantry off one cor ner,
rearest stove and sink. It may be used for din-ing-room in summer while the cooking stove is in
the summer kitchen. The kitchen chimney is inside back wall, so that when outer shed is used for suminer kitchen the same chimney can be used. room in winter, and back parlor or bedroom in summer, and might be connected with the parlor
by large folding doors. Upstairs there could be our bedrooms, a small sitting-room at head of stairs, which might open into balcony over the
veranda, when that useful and ornamental addiion was put on. A balcony is very serviceable ing them up and down stairs. At end of hall the plan shows a storeroom, or bathroom, if such a comfort can be provided. In winter, the kitchen stovepipe could be brought up through this room
before entering the chimney, which is shown in he corver of room. In the cellar a galvanized iron cistern could be placed under the kitchen sink, where a small pitcher pump could be placed. to partition off a portion for storing vegetables and roots, and another for milk, butter, preserves, btc., as the furace is liable to keep the cellar too
varm, and necessarily gives rise to considerable warm, and necessariy gives
dust. The furnace should be placed about the (enter of the building. For safety, the furnace chimney should be carried down to the cellar floor and the connection made direct from the furnace, ould take the furnace pipe up through a corner of the front room and into the front bedroom, where it would enter the chimney. There are hany good furnaces made, or a good, thick, box-
stove for burning three-foot wood can be used for furnace by enclosing it in a brick chamber, from which the hot air would be conveyed
hrough tin pipes to various parts of the through tin pipes to various parts of the
house. To reach the registers on the $_{\text {rem }}$ house. To reach te registers on the
upper floor the tin pipes are made to fit
in the wall bet ween the studding. The ir chamber of furnace must be supplied with fresh air (cold air); , one pipe may
,he taken from outside and another from e taken from tering at the bottou of the furnace air
chantber, the hot air pipes emerging changer, the hot air pipes emerging
from the top of chamber. of course here must be a proper system of check
irafits in order to control every pipe When a cellar is wanted and a fur-
nace is to be used, it is advisable to put the oundation down on
ase of stone houses.
Speeifications called for in such a plan as
above, here illustrated, would be as follows: For iiders, 1 piece $6 \times 6$ inches by 16 feet, and 1 piece
 pecens $2 \times 4$ inches by 18 feet. studding, 250
72 inches by 16 feet ; 4,50 , feet shiplap pieces $2 \times 4$ inches by 16 feet , $4,5 l$ fes feet ship feet
2,300 feet siding; 10,000 shingles
si, nd cornice: 2,300 feet siding extra, if boarded and cornice; ${ }^{2} 6$ rolls of brown building paper:
on inside and 6 ,
12 rolks tar paper, for floor, roof, and outside 12 rolls tar paper, for floor, roof, and outside
wall, and a few cedar or oak posts in cellar to wall, and a rew ced
support the girders.
A few further explanations may be helpfull
lmbed a piece of $2 \times 4$ inch on top of stone wall Then a piece or tex the foor joists, put joists in
place which the rest fill between joists with mason-
work, flush with the top, tight up to floor. Lay
shiplap floor, then a $2 \times 4$ inch, upon which to set he studs
or the floor, one layer of shiplap, then tar paper, and then flooring
When sand and lime
outer walle and labor are cheap, the shiplap on inside of studs, then brown building paper (tar paper used here stains the plaster),
then stripped with 1x2 inch strips
 siding.


UPstatre mor oonvenient farmbouse
A seven-foot stone wall for such a house would requiie about 12 cords of stone ( 1288 cubbic feot to wall. One yard of sand and four bushels of lime are necessary for each cord of stone. A mason should lay one cord of stone per day, with every-
Lhing supplied to his hand. For a chimney Lhing supplied to his hand. For a chimney it
requires 40 bricks per foot to make an 8 -inch fue. requires 40 bricks per foot to make an 8 -inch flue.
With very little changes this plan coll bo made to suit subscriber. The live bedrooms could be arranged upstairs by converting the bath or store room and part of the 20 -ft. bedroom into Aifth. A small bath-room could be made in a
corner of the large kitchen without changing the main plans of the house.

## Stone Granaries.

To the Editor
Sir_-Your
Sir,- Your Brandon subscriber need have no fear of building a stone granary, as the grain
keens well in them ; in fact, better than in fraine keeps well inless they are double boarded; as the rain sometimes beats through even the best of siding. I have one myself, and there are several in a complaint about them.
a There is not the least danger of "sweating" in a stone granary; for if grain is put in ary there is no moisture to evaporate from it, and, as the
temperature of the wall and the inside of the temperature of the wall and the is no danger of
building is about the same, there in moisture condensing on the wall. A stone is no more liable to "sweat" in a granary than it it on the prairie. By all means put up a square time, ing, rather than round, as the waste of time,
flooring and roofing in a round building amounts to more than the saving of material in the outside

gr jusd floor plan yor convemient parmbouse
wall, and that
anything saved
If there is a bank near the building site, it will save many a hard lift to put the building in
the side of the bank, and make it two stories the side of the bank, and make it two stories
high, and drive in on the upper foor and empty high, and drive in on the upper fioo
the grain down into the lower bins
No fear of moisture. It has proved a success here, and more of the same style are to forlow,
Virden, Man.

## The Telophone in Australia.

Free-handed Australia has found little difficulty in adopting the telephone as a department of the
post-office service post-ofice service. The several colonies, now
States of the Common wealth, nationalized the new means of communication soon after its introducit ion, and now the Federal Government has taken been an equalization of charges. Three difierent kinds of telephone service will be provided, at difIerent rates. The business tolephone service will
give the unlimited give the unimited use of the telephone at all
hours, within the limits of the nunicipality, at an annual charge of $\$ 40$. For a similar service, inarea of considerable radius, tite annd a suburse will
be $\$ 50$. For private residences the rate, without area or Fonsideraie radius, the annuac charge wive
be $\$ 500$ Frivate residences the rate without
any restrictions as to the number of nesisates or any restrictions as to the number of messages, or
limitations as to hours is fixed at a unilorm
charge of limitations as to hours, is ixed at a uninorn
charge of $\$ 25$.
and suburban service the latter cease both the town charge or $\$ 25$ In the latter case both the tow.
and suburban service would seem to be included.
No provision seems to have been made for lonz No provision seems to have been made for lonx
distance telephhony, possibly because the centers of
population are so widely scattered population are so widely scattered, The country
is fairly well telephoned. 3,000 are unsupplied with an exchange.

## The Telephone and drime.

 The rural telephone is appearing in a new role. Union County, in North Carolina, recently was visited by a gang of desperate burglars. Aftersome exciting some exciting episodes they were hunted down an mention was made of the bloodhounds employed at one stage of the chase. Thereupon a corre
spondent of one of the local newspapers pointed spondent of one of the local newspapers pointed
out that Uniout County has ten telephone ex. changes, and between 300 and 400 telephones in
the the country districts. "A few minutes arter
those desveradoes opened fire fuon the those desperadoes opened fire upon the oulicora at
Monroe, just before davlight, the news wne trant Monroe, just belore daylight, the news was tran
mitted by telephone to the neighborhood ex
change , changes, and in a few to minuese neighorernood it reached every nook and corner of the county. Everybody was then on the lookout and ready to spot any
stranger or suspicious character that might bo seon in the community, and they were therefor enabled to assist the officers in getting quick information in regard to the
criminals."--TToronto News.

## Western Rye Grass.

With well-dressed seed any ordinary grain seeder with a " "vertical feeder" is better. I have sown it for the last thirteen years with a "Superior" driill as easilis as any grain. It takes the seeder set at
ight. Fifteen pounds of sound, clean seed is about the , ighen quantity, I may here remark that poor ly-dressed seed should be avoided, for two strong
reasons: First, unless the seed is properly cleaned it cannot be sown regularly being naturally light if there is the least amount of broken straws it
will not run to the feeders. Second, if there are will not run to the feeders. Socond, if there are
foreign seeds they are generally foreign seeds they are generaly hirt.
quently good money is paid for dirt.
On ordinary good loam soil it can be satel On ordinary god loam soit it can be safely
sown in spring. along with grain crop.
On such soil I never yet ang ised good catch when sown
 sow in spring. $\begin{aligned} & \text { One way tor } \\ & \text { such soils is to leave the soeding }\end{aligned}$ such soisp is to. leave the seoding
off till the grain is high enough to prevent draiting is, then drill in, across preferable. But probabl the best way is to plow the land,
sey eix incheo deep eand dron in
when the soil is nice and molitit any time between June and the
fall, with one-hali to one bushel of any sort of grain that is most
convenient. ${ }^{\text {This mixture, when }}$ grown up, might either be pas

 grain crop. one three inchwe dee
Like all other
Like all other grasses, the better the soil the
heavier the crop ; butit I am not aware of heavier the crop; butit I am not aware of any
other grass, or grain, that adapts itself better to other rasas, or rgain, that adapts itself better to
anl conditions of soil from light sand to sour and
alk aline soil. It has put a sod on a hed of alkat alkaline soil It has put a sod on a bed of alka-
line soil where no grain would grow, and since plowed up three years ago, that plot grows grain
as well as any other part of the field. it was as wedl as any other pa
aight years under grass.
eight years under grass.
Length of time it continues to give a paying crop, three or four years, with our naturally dry
climate. After that time the soll gets packed too hard, consequently the moisture evaporatee quickly in dry weather, otherwise the plapts hold their own for nine or ten years.
As a pasture it gives good results, espectally

Tor horses. My horses are turned out on it about in harness. They sweat more than when fed on dry feed, b
shoulders.
I always pesture my hay field till about 1st of
June. Store stock will hold their own on it after the snow store stock will hold their own on it after some farmers have to it, that in spring the neighsome farmers have to it, that in spring the neigh
bors' stock for miless around gather om it.
Wallace Municipality, Man: K. McIVOR.

## Cultivation, Moisture, and Manure.

## Where land is inclined to drift, as little culti

 ation as possible should be given in spring to the fallow of the previous summer. On heav weedy, use a cultivator. On fall-plowed land that has been turned early in the season and well harrowed, if light soil no further cultivation needbe given, but in heavy, light surface cultivation is be given, but ir heavy, light surface cultivation is
with land that is spring-plowed, three inches is about the right depth in After plowing
hatrow, then sow and use the soil packer So for hatrow, then sow and use the soil packer. So far
summer-fallowing is the only method used with summer-fallowing is the only method used with
is for the purpose of killing weeds and conserving
unoisture for next y year c noisture for next year's crop, but I believe that
land which has produced a crop of corn or roots, and cultivated so as to keep weeds down, woul ing, treating it in the spring same as summer falow. On heavier lands seoding to grass and
bringing into cultivation in a few years again bringing into cultivation in in few years again
would, for a few years, do without summer-fallow, wo the decayning roots would hold thme moisture
and I believe would give us that bright sample o and I beilieve would give us that bright sample o
Thieat twitch is considered No. 1 hard. From out
 As to rotation of crops, I believe we will
o adopt that system soon. So far there is prac ically no method with us, but I would suggest seding down, then two crope wheot, followed by one of the coarse grains, such as oats, barley or spelt, then if possible a root or corn crop, and crop and seed down with it; then repeat as be fore. For light land two crops wheat and seed oown, as coarse grains do not prove profitable on ght soils
only been with summer-fallow, worked as early as possible and well harrowed, then allowing cattle rop to entice cattle on it, but usually weeds enough grow to do that. I know of a field that was planted to corn and well cultivated, that
gave better yiletd of wheat for the two following ears (they were dry years) than adjoinging sumyears (they
mer-tallows.
As to manure, my
arinion
openefted by it.
Certainly
wheat is. anoll of very light land near a gate, which my ered with manure and very hard; so hard that the shoo-drill made very little impression, but it gave grand crop, stood up well and was well filled. tables during winter and spread lightly is best but I had good results from drawing well-rotted nanure on to my summer-fallow, after being well could see where I left off all the growing season. This wee on light soill of all the growing seaso
Pipestune Municipality
Pipestune Municipality.

## The Best Breed.

It is quite common to hear the question asker as to which is the best breed of cattle, sheep. are considered authorities on live stock should be
able to answer in a few words. This is a great mistake. Men who bave given the most study to this subject have concluded that there is really
no "best"" lreecd, but that often greater difference exists bet ween individuals of the same breed than between representatives of a difirert breed. o
course in cattle course, in catcte, Ior example, it must be unde beof and the other for dairy purposesses, of the lat- lat
ter, Holsteins have becoree noted for a larke flow ter, Holsteins have becoule noted for a large fow
of inilk, Jerseys for a high percentage of butteror milk, Jerseys for a high percentage of butter-
fat, and Ayrshires for a alarge amount of casein,
that substance which enters most langely into the that substance which enters most targely into the
themposition of cheese. While these general char-
comer acteristics are peculiar to these breeds, individual
Holsteins will be found that give richer milk that some Jerseys, and Jersess and Ayrshires will be found that produce more pound of nilk than Hol-
steins Similar comparisons may be made with steins. Similar comparisons may be made with
the beef breeds, with hogs, sheep and other classes the beef breeds, with hogs, sheep and other classes
of stock, so that no one con corectly say that
there is a "best breed." Persons. have their. inthere is, a best broed." Persons have their in-
dividual preferences for certain breeds or types and success with any of them largely depends up-
on the intelligence and care with which they are on the inteligence and care wd

## Gesoline Engine Encuiry

Seeing Mr. Vermilyea's letter in the "Farmer's dvocate," criticising Mr. John Renton's article on gasoline engines, I wish to ask a few questions one this year
Please let me know the standard makes, and which you think is best
Also, would a twenty horse-power gasoline qual a twenty horse-power steam
Mr. John Renton says that gasoline engines are ll right for farmers, but are too slow for a
regasons? ?
What firm would suarantee their engines to
develop twenty-five per cent. more than their rated develop twen
Would a twenty-horse pasoline be power enough $\begin{array}{ll}\text { co run a } \\ \text { vance or } \\ \text { Waterloo) } & \text { separator (Battle Creek Ad } \\ \text { with blower. feeder and high }\end{array}$ bagger? Wallace Municipality, Man
Reply.-There are numerous makes of good portable gasoline engines, and I would not care to cussion on this point, but any reliable Winnipeg jobber would give you information regarding the relative
handle.
The proper way to arrive at a correct eetimate of a gasoine engine s horsepower, is by ascer-
taining the size of the cylinder and the stroke of the piston.
guarantee their engines to have a capacity of twenty-five per cent. over the quoted horso-power, give general sat in allowing this extra power is to side, thereby protecting their reputation. An encapacity will not stand the strain for any great ength of time.
Steam horse
ressure to the power is reckoned at ninety pounds pressure to the square inch, and by firing up many creasing the horse-power; whereas, with a gasoline engine, when you get to the extent of your rat-
ing, you only have the surplus power allowed by the company, and the little extra horse-power which may be accuired by changing the engine's governors to give a higher speed. Hower, it
is not advisable to increase the rate of speed, as this is hard on the engine. engine would furnish enough power to run a $32-16$ separator, with blower and high bagger attached.
Winnipeg.
CLARFNCE VERMILYEA.

## Tillage and Manure.

the "Frarmer's Advocate," ${ }^{\text {In }}$ in which the question of soil cultivation came up, Mr. Jas. Yule, Man ager of the Van Horne Farm, Selkirk, said, thai
in his opinion land which had been well fallowed last year needed no preliminary cultiva
tion this spring to secure a spedbed He would tion this spring to secure a seed-bed. He would apply the press-drill and sow the seed as soon as
the land was dry enough to work on. If it had not been harrowed after being plowed the previous season, he would harrow twice ahead of the drill but the surface should not be made any finer thar
was necessary to obtain a good seed-bed, as loss was necessary
was ant ensue from blowing. seed-bed, as
on land that had been plowed from stubble the previous fall, two harrowings tefore sowing was desirabiven he amoler drilling would detion that should. be given after drilling would depend en
tirely upon the texture of the soil. If it wer heavy clay he might use the roller. on spring
plowing he would either roll, to pack the lowe plawing he soil, and after rold, to harrow the lowe ing, or harrow first and then roll. This plan, he intimated, had given excellent results on the
Prairie Home Farm, and we see no reason why it Prairie Home Farm, and we see no reason why it
should not, because with a mellow surface for a seedi-ted and the lower strata lacked to tor
the moisture, the land should resemble fall plow ing much more in its character than if not
rolled. Summer-fallowing, he believel., thould he car
ried on for two reasons FFirst, heralse it pre
sented a splendid apportunity of killing weeds:


 crop before the grat rash came on :
Mr
Yule emphasized the for

 plow and again harrow, being carefil to have this
done before the haverest came on. The claim
made lvy some farmers, that the
gave too much straw, had not been his experiAlthough a crop-rotation was difficult to fol Iow in some respects, he believed it was very de low in some respects, he believed it was very de
sirable under ordinary conditions. Where wheat was rised largely for the market, and a racon-
able number of stock were kept, the rotation able number of stock were kept, the rotation might be wheat, wheat, oats, barley and grass. method was to move it direct from the stable to the field. This entaired less labor, and was in every way the nost desirable course to follow. The best place to put it, he believed, was on the soil too open, but the time was coming, $\mathrm{i}_{\mathrm{i}}$ opinion, when the practice would become inore general.

## Injury by Weeds.

Without doubt, the greatest injury done by
weeds is in robbing farm crons of thair plant and moisture. In this country, where dry sum iners are so beater should be lost to the that From experiments conducted some years ago at
the Ontario Agricultural College, it was learned the Ontario Agricultural College, it was learned that by allowing ten plants of wild mustard per
square yard there would be drawn from the soil square yara, there would be drawn from the so tons of water per acre daily. Other experiments. Conducted by Prof. Snyder, Minnesota, have gone
to show that a cron of wild mustard will to show that a crop of wild mustard will, also
take from the soil as much phosphoric acid and potash, and nearly twice as much nitrogen, as an ordinary crop of wheat
In addition to the foregoing, great damage is done to farm crops by shading and crowding.
the building up of the plant-tissue, it is necose that an abundance of sunlight should be supplied The weeds generally grow faster than the rest o the crop, and soon they overshadow, and, to a
large extent, crowd out their more valuabe large extent. crowd out their more valuabl
neighbors. The cost of these intruders means ain enormous sum to the farmers of Manitoba and the
West, and hence too much West, and, hence, too much attention cannot be
given to the importance of sowing clean seed given to the importance of sowing clean seed and
adopting nethods of cultivation which will adoding methods of cultivation which wil
eradicate those already established in the soil.

## Weed Seeds

A few helpful words regarding the identifica tion or the seeds of some noxious weeds should亚 in place at this season
amined amined many samples of grass and clover seed
taken from stocks offered for toints. It is acks offered for sale at variou cases thase have been iond to that most quantities of the seeds of many species of trone some weeds. Similar examinations in provie years have proven that such is usually the cose Farmers have learned through experience that in dealing with weeds, the old adage, "An ounce of prevention is worth a pound of cure," is an exceedingly wise one, and all know that days and weehs of hard and discouraging labor with the hoe, the spade and the cultivator, may be avoide identify clean seod, yet, few have leamned to Most of the seeds many of aur worst weeds Most and a few others, which ane perhaps, couch grass, as large, as the cereal ari ar nearly of the seeds oi ragweed, bind weed appearance veppergrass, white cockle, and many quite unknown, ulthough they are even more disinct in character than peas, oats, wheat, and
barley. With the aid barley. With the aid of a goon magnirying glass seeds can easily be seen, and every farmer should
bave a have a glass for this prurpose. A armer should
can be bourbhte one (Note.-A very food magnirying glass for this
 In no case should seed be purchased (especially
grass or clover seed) until a sample has been
carefully examinel caretully examined by the intendinge has been
and he has satistied himself thaser tively free from weed seeds. Let it be remampouring it frominining a sample does net matean
a a casual tiance hand into the other, giving retty clean glance and saying, "I guess, that is is cully tone out on a sheet of white papper and care
that every seed is seen. All the seed. wiwh that every seed is seen. All dge ounds. Then yon have a definite knowldge of the anome of the different impurities in解 sample, and can casily calculate the amount
a number of the weed seeds most commanly found in gress aind clover beods, and of a few which are
also fomind in seed grain. In each case the large also foumd in seed grain. In eench case the large
drawing reprosents the seod as seen under a good magnitying slass, and the small drawing to the right thows its natural size.
In Tig. 1 is seen the seed of Canada thistle about oneelgith inch long, rather smooth, and, about oneeighth inch long, rather smooth, and,
when frest, has a tuit of long silky. hairs atwhen frosh, its as ar tuft

## 屚

1-CanadaThistle. 2-Perennial Sow Thistle. Fig. 2-Perennial sow thistle (Sonchus arven sis). This seed is of a deep reddish brown color surface and a tuft of silky hairs at its upper
end.
end. Fig. 8-Ox-eye daisy (Chrysanthemum leucanthemum). The seed is one-twelfth inch long, and is ribbed lengthwise, with alternate white and black ribs. It is very commonly found in timo-
thy seed. thy seed.

## -ox-eye Daisy.

Fig, 4-Burdook (Arctium lappa). The seeds are of a greyisho brown color, with darker spots.
They are about three eighths inch long, and have They are about three eighths inch long, and have a somewhat roughened surface.
Fig. 5 -Blueweed (Achium vulgare). The seeds are grey, on
lar in form.
 Fig. 6-Ragweed (Ambrosia artemisiefolia).
These seeds vary in color from green to brown, are about three-sixteenths inch long, and have a shamp tip, surrountled by a circle of spines. They in grase and clover seeds.
Fig. 7-Peppergrass (Lepidium Virginicum) Seed is of a reddieh brown collor, rather flat, one sixteenth inch long, and when viewed with a lens shows a pimpled surface, It is one of the most
common impurities in timothy and clover seed.


The seed of false flax (Camelina sativiva), Fig 8, is somewhat darker in color than that of peppergrass, and is smaller and not so flat. It is
most abundant in timothy seed, but is also found in clover.
Fig. 9 shows the seed of bindweed (Convolvulus arvensis). It is black, rather apgular in iorm, and has a rough sturface. It is about the size of a small vetch seed. Every farmer shour
Know this seed, because bindweed, when it has once obtained a foothold, is probably more difflcult to eradic.
the Province.

seaalinus), whitich is familiar to to of ohost tarriert, amp commonly found in min to

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Fig. 11 gives back and front views of the seed fnom yellow to a deep brown; is about one-eighth
inch lomg, and has a slightly wrinkled surlace. inoh long, and has a slightly wrinkled surface.
It is very common in grass and clover seod. The seed of curled dock or yellow dock (Rumex crispus) is shown at Fis. 12. It is shiny brown point, and is froungliar in form, with a tapering



18 -Curled Dock or Yellow Dook. 13-Wormseed Mustard.
Fig. 13-Wormseed mustard (Erysimum cheir anthoides). This seed is very small, is of a yel-
lowish brown color, and has a furrow on one side. It somewhat reseimbles hulled timothy seed, and is fou
and clover seed.


14, is kidney of white cockle (Lychnis alba), Fig. covered with shaped, lubercles, which give it a very rough surfact.
seed of rib grass (Plantago lanceolata). It has a rich brown color, is shaped somewhat like a
canoe, and its surface is smooth and shiny. It canoe, and its surface is smooth and
is exceedingly common in clover seed.


15-Rib Grass shown two seeds of lamb's-
In Fig. 16 are shors
arters (Chenopodium album). These seeds are
quarters (Chenopodium album). These seeds are quite black, but in some cases a portion of a ish appearance.
The above descriptions are necessarily very
brief, but in connection with the illitrations brief, but in connection with the illustrations they should enable a farmer to 1dentify any of
the species considered. J. BUOHANAN.

## Gasolina Engines.

To the Edito
Sir,-I see that a Mr. Vermilyea takes excep"Farmer's Advocate." In said that I considered that gasoline ocate. 1 said that 1 considered Mr. Vermilyea admits this to be the case in all sut the standard makess Now, Mr. Editor, On this point I gave our own experience, as well as the experience of others. Ampong them was a
Winnipeg dealer in tasoline engines. Winnipeg dealer in gasoline engines; he said that
if a party wanted a $14 \mathrm{~h} .-\mathrm{p}$., he furnished him with a $16 \mathrm{~h} .-$.; ; if he wanted \& 16 h -ph , he for-
nished him with a 20 h .-p. Why did the dealer nished him with a 20 h .-p. Why did the dealer
do this? Because the engine was overrated. do this? Because the engine was overrated.
Mr. Vermilyea says, "As would naturally be expected, the larger engine adds materially to the fuel cost, and for this reason a size too small is bought." "Here again Mr. Renton is mistaken.
No matter how large the engine is, it only cothsumes gasoline in proportion to the amount of
power developed, one-ighth gallon per horse-
power peer hour boing the average quantity gasoline used." Mr. Vermilyea may quantity of deal in theory about engines, but his theory and practice are too very different things. "Speaking
of middlemen's profits, Mr. Renton says that he believes then's are larger than the nanufacturer's. Now, if Mr. Renton was buying direct from the manufacturer, he would find that, counting in his
time and trouble, the cost would be greater than
it is when he buye from the Winnipeg dealer." it is when he buys from the Whnipeg dealer,"
Mr . Vermilyea says, "This statement may appear
rather strange to some farmers." Yes, sir, it is rather strange to some farmers," Yes, sir, it is
strange, it is far more than strange. Allow me
to tell Mr. Vermilyea that after having purchased a gasoline engine from a Winnipeg middileman, I ound that I could have purchased the same make have bought a Canadian-made engine for less
than half, fully warranted to give satisfaction. Mr. Vermilyea talks about "the time and trouble", two-cent postage stamp, a sheet of paper and an envelope will brins the farmer in commminication
with any maker in the United States or Canada. With any maker in the United States or Canada. This would not take much time or trouble. This told me that he just had instructions from his firm to discourage farmers from shipping theif own wheat ! Why ? I will allow every farmer to
answer this question for himself; it will not be a
hard one. Mr. Editor, I wrote the letter I did, giving the farmers of this country the benefit of our experience, and would just say here, that many years ago I arrived at a conclusion, and it
was this, that a very Ittte experience was worth far more than pages of plausible theory, writton experience for what it is worth the public our can obtain prices by asking for tham. The maken
are always pleased to reply whon written to. Braeside, Winchester Munielpality.

## Two Stylos.

The Manitoba and Northwest 'Farmer's Advocate," in the creditable Immigration number, presents on one paige a pair of pietures which afior
curious contrast.
One
is ap the prairie sod with a plow drawn by four up the prairie sod with a plow drawn by four
oxen, our friends Buck and Bright, with thelr
brothers. brothers. The other is of a steain plow used by
a Moose Jaw farmer. The engline is of thirty horse-power. Woo it are attached from seven to nine plows, and, the machine can break twonty
fares a day. The owner, 'it is noted, used Souris acres a day. The owner, it is noted, used Souris
coal, and found the engine cost him 85 per day of ten hours.-TThe News, Toronto, Ont. per day

## Dairying.

## 4 Largo Dairy Farm

In a sliert thme wintipor win be whe to boast of having the largest daitry tarm in America. With a capital stock of $\$ 200,000$, the Munroe Pan Milk Company, Limited, has been formed by the union of the Munroe Creamery, of St. James, ane the Pure Mille Company, of winnineg. The mangemout of the big concern will be under the conrol of Mr. David lunroe and his sons, who have had a herd of nearly two hundred cows, seventyive of which are pure-bred Boletelns. Severa more have already been purchiased, and it in in derded to have a herd of 600 cows on the 1,750 the city. Six new barns are to be built neax ummer, each to be $285 \times 40$, and 88 feet himh
As Mr. Munroe has been having splendid
ess in growing corn for fodder, about 125 acre cess in growing corn for fodder, about 125 acres will be purified at the farm, according to the most up-to-date methods, and afterward bottlec and stored in the company's refrigerator in th city, from
patrons.

## Use More Milk.

When the food value of milk is considered, it is remarkable that it is not more largely used by those who have the facilities for producing it at first cost. Comparing its flesh, fat and bone it is sold, with other foods on the market, the ad $\mathbf{v}$ antage is largely in its favor. Nothing to be
found on the farm is more easily digested than pound on the farm is more easily digested than growing animals. arronged in the proper propor tion. In an average sample, we find almost lour per cent. of protein, or flesh-forming substance; five of carbohydrates, or starchy matter; almost four chiefly of phosphates and chlorides of potash, lime and soda.

## A New lifik Record.

 After doing creditable work for a number of yoarts the Holstain cow, Sadie Valt Concordia, has at last broken all records for milke, Nroduco tion. Her performace consisted in producing 695 calculating the butter yield from the fat content
of the milk, this pertormance would give Sadie of the milk, this performance would give Sadie
Valo 30 pounds 10 ouncee of butter to her credit We are not advised, however, that this amount of
Wutter wis actually made from the amount of milt given. The lowest record ever made by this cow Was 817 pounds 10 ounces of milk in her two-
 record, but with the improvement that is taking cows, Joalous of this performance and truete to to
male jinstinct, to equal and surpess the ecord male Instinct, to equal and surpass
the notorious Sadie Vale Concordia.

## Death of Mrs. Jones.

Readers of the "Farmer's Advocate" interested dair ring, will learn with regret of the death, on April 7th, of Mrs. E. M. Jones, of Brockville, Ont.k where she conductod successiuly a latge nous throughout America for many years. Stock af her breeding has frequently come to the West.
Mrs. Jones was, perhaps, most widely known Mrs. Jones was, perhaps, most widely known
throughout the world by her little book "Dairying throughout the world by her little book "Dairying
lor Profit, or the Poor Man's Cow," thousands of which were distributed through the "Farmer's Advocate:" Mrs. Jones was the wife of Mr. Chilton Jones, manager of the D. J. Jones' Shovel Manufacturing Co.

## Ifpiary.

## Beokeoping Intelligence.

 to the Edtlor "Farmer's AdvocateSir,-In presenting you with a synoptical re ort for the past year in the apiary, we would say that, alithough not quite up to the average ake it all through it was fairly good. The quai ty of the honcy was quite up to the average, and as a result not one dissatisfied customer, some hing which we think is worthy of our apprecia tion. The season, to say the least, was rather beekeeping we cannot recall in all our years of come to think it would be hari to recall easons that were fist tike. ar ar aro n the apiary is concerned it is this continua ooking for the unexpected that removies the monot any and gives zest to beekeeping Reports to hand give yields all the way from 60 to 125 ounds per colony, exclusive of winter stores No aoubt the condition of bees in spring, and the dif erent qualifications of the beekeepers, had much to do with these results; but we believe that location has more to do with success in beekeepin then it generally gets credit for. As the physical features of the country change, so does the soil; also the flora to a greater or less extent. There are some fiowers that are common to all or most in certain seasons; hence, we conclude freely, only tain soils or soil conditions enter into and be come a factor in the production of honey. We often have descriptions of localities sent us, and our opinion asked for as to their adaptability opinion, from the fact that so much denture an the beekeeper ; one might make a success where another would make a failure. The better way would possibly be to test the different localities, each, and caring for them in an intelligent man ner. To be able to do this, we must know something of their habits, and of the internal economy of the hives. What we term a hive, is not only flowers is converted into whoney, but it is of the where our domestic bees propagate their species,
and there we find them working unitedly and and there we find them working unitedly and harmoniously, each one doing its part in carry In this numerous biut we
the hive, we find the mother, or what is termed the queen bee, who lays the eggs, and an army of nurse bees, who not only help to maintain the
proper temperature for the hatching of the egys but prepare the food to feed the young the eggs, about six days old, when they get their last feed and the cells in which they spin their cocoons are ealed over. In this cocoon they remain for
bout twelve days, when they emerge fully-de eloped worker bees, twenty-one days having
elapsed from the laying of the egr
also, the field hands or workers, who provide for
the family's maintenance The amount of brood in the hive will depend upon the supply of food, the number of nurse and
field bees, and the maintenance of the temperature, about $90^{\circ}$. Tho queen will rarely occupy combs that are not covered with bees. The amount of brood may run all the way from a few
patches the size of the hand to four, six, eight patches the size of the hand to four, six, eight,
or even more full frames: the prolificness of the queen has much to do with it. Bees don't get into the hive as by magic, they get there by the process of certain laws of nature; should the bee keoper, through ignoirance or neglect, violate these
laws, he will pay, the penalty. In the case of a weak colony, especially in spring, make sure that it has sufficient stores, that as few bees as pos-
sible may have to leave the hive in search of food, sible may have to leave the hive in search of food,
and that not only the entrance but the brood nest be equal to the demand of the colony, and proper means used for the conservation of heat These things attended to, he will be rewarded by greater increase. In a few days after the young
bees emerge from the cells, they take the place of bees emerge from the cells, they take the place of
the nurse bees, while they faill in to fill up the the nurse bees, while they fail in to fill up the
ranke of the field bees who are being depleted by death from old age and other causes, for be
remembered that the life of the bee is compar tively short, about forty or fifty days in the tively short, about forty or fifty days in the colony's prosperity that young bees be continually
leaving the cells. It is only so far as the supply leaving the cells. It is only so far as the supply of young bees exceed the decrease that is continually going on among the working forces that the
colony is really increasing in numbers. A weak colony works under great disadvantage. and will not build up even as fast in proportion to its numbers as a strong colony; hence, let our
be strong colonies, ever and all the time be strong colonies, ever and all the time.
As the hive becomes crowded with be

C. I. DAYKIN, LACOMBE, ALTA.
President Territorial Dairymen's Association.

The queen has all available space occupied, prep will be making their will be in evidence ; drones queen cells, where the prospective woth will also colony, among others, is raised. On the ninth day from the laying of the egg in the queen cell,
it is sealed over ; then the old queen may be ex pected to go off with a swarm to start house keeping in new quarters. In seven dayst house young queen will leave the cell, a fuilly-matured Virgin queen, and after an interval of some six or seven days she will take her bridal tour, when she begin laying in two or bee, and if fertilized will McP, of B., we hope you will see where you Mr your mistake in leekeeping last summer, and be convinced that the division of your colony at the time it was done was a mistake. It was just bees were getting sufficiently numerous work; the the two or three thousand eggs that were being daily laid by the queen, and if left alone we have week of July, and both hives been in good conditon for winter. One good colony is better cither
for increase or honey than two weak ones will assume that the queen in your hive was lay ing at the rate of 1,500 eggs per day at the time
you made the division, which is inside the mark for a good queen. In wwo weeks she would have deposited 21,000 , but as she might have been
getting short of room, we will say 20 , noo suppose about this time a swarm issued, amil it
wals hived on full sheets of foundation, in an
of quarters the queen would be laving seven days after sumen new
parent colony would have had a youns later, und
ing. With so many young as nurese, and plent of room for the queen to perform her functions, hey would have built up fast. Such is nature' way. In dividing the egg production was re nucleus formed would be in still a worse condi ion, assuming you had no foundation or queent, $t$ would not only have to build the comb in the mpty frames, but raise its own queen, and allowave been about forty-five days before any yo bees could make their appearance, which left it o time to build up, as it would then be getting given at the time of division would have made he difference between failure and success. Wo have had swarms come off in the first week in August, which bad a surplus of honiey when the season was over.
Franklin Municipality.

## Poultry.

## Prevention and Treatment of Parasite

 on Poultry.Infestation is always worst in dirty, neglected uns and roosts, and such are a standing danger 0 more cleanly neighbors. Cleanlinese and freo om will always put these pests under a disadantage, not only of the nests, walls and floors, to
To suppress these pests, the chicken-houses should be cleaned down at least once every six soft soap in the proportion of gallon of hip soft soap, in a prop sift gallon of hime oo onequarter pound of soft soap, previously disshould be applied to the ceilings, wallo and nests, the wash being liquid enough to run into every crack and crevice. The perches are best treated with boiling water and soft soap, or with an emulsion of kerosene. The more cracks and crevices there are in a chicken-house, the more liable it is to harbor numbers of these pests, and in these cracks, etc., they stand a chance of escaping the wash used
The nests should frequently be changed to keep off fleas and other parasites. They should never be fixed, and relays of each should be at hand, so that they cun be changed to ensure complete disinfection. Hot lime should be used for dressing the nests with Persian insect bottom layers of the sawdust or sand, soaked in naphthalene, is also very helpful in keeping clear of these pests. Wood
shavings, or wood-wool, is more beneficiol than shavings, or wood-wool, is more beneficial than straw in the nests, as no lice or fleas live in it, oh
account of the aromatic odor given off from the accoun
wood.
Regarding the infestation of the birds themselves, the best thing to use is "white precipitate, which should be sprinkied over the heads sparingly, as this poison is a strong irritant, and needs the greatest care in its use. It is best obtained as an ointment from the chemist. Hens selected for sitting should have a little of this well dusted with pyrethrum, and sides, and then often greatly tortured by parasites and their young often lost by neglect of these very simple precautions.
Sand and
Saraffin," and road dust mixed with a little "paraffin" will generally keep the birds free from
"ermin, or "pyrethrum" can be used instead of Hegarding "mites," the only way of remedying Regarding "mites," the only way of remedying
is to isolate the affected bird, espectally if it be a cock, the disease being very contagious. The
mites, yield readily to treatment with "i oil of

toves," rubbed into the cloves," rubbed into the affected parts, or a still nore successiul remedy is one part of "creosote" | Care |
| :--- | litle more trouble, but when probably entail take. when profit has to be made out of the



## Producing Laying Strains.

Perhaps the most useful experiments in the
poultry business are carried on at the Maine State farm. Here hens must have a recor rom these individuals the egg-producing trait is hrmly fixed in the breed. Cockerels from such State, thus disseminating the good work. Worl sate, thus disseminating the good work. Wor wi forth to paduce fancy markings regardles $t$ the usefulness of the birds for eggs or meat

What Brepil ？
With the coming of spring and the beginning of the hatching season，many people decide to the past such decisions frequently have led to the the patiligent purchese of pure－bred stock without
uninter
regard to the characteristics of that particular regard to the characteristics of that particular in some quarters with pure－bred stock．In ventur－ ing into pure－bred poultry，it should be remem－ bered that there are greater differences between some of the different breeds than between pure－ bred and mongrel poultry，and often very great
differences in individuals of the same breed．It is necessary，therefore，before buying pure－bred stock or eggs from such，to know．just what is wanted， and to know to what extent the breed selected will fill that want．For instance，if a person good quality and with yellow skin，he would not be advancing to that end by purchasing Leg－ horns，Andalusians，Minorcas，Brahmas，or Lang－
shans．For this purpose plymouth Rocks or shane．For this purpose Plymouth Rocks or
ivaridottes will－give the best satisfaction，or if the same class of bird is desired with a white skin，the Buff Orpington would give good results． For guidance it may be laid down as an approxi－ mate rule that for egg production the Leghorns
（all colors），the Minorcas and Blue Andalusians are in the lead ；for large size in table fowl，with white skin，and for sitters，the Brahmas，Lank－ shans and Cochins excel；and for general－purpose birds，for the production of eggs，sitting and
table use，the Rocks，Wyandottes and Buff Orning－ tons＂havo their innings．＂Other breeds have their neculiarities，and are profitable to those who go in for novelties and exhibition fowl，but if the average person decides what he wants and selects
from the above breeds to fill that want，he has taken a long advance step in the production of improved poultry

## Partility of Nege．

A correspondent writes us asking：＂How long after ducks are mated must one wait before the hens，how soon will the eggs be fit for hatching and the old strain eliminated？
These are some of the problems that are being investigated by advanced poultrymen to－dav．As results of experiments，but in the case of the hens， results obtained at the Ontario Agricultural Col－ lege answer the question in part．At that station Prof．Graham found that，taking six hens that had
not been with a male for months，the eggs laid on the first two days after the introduction of the male were all infertile，and on the following days the percentage of fertile eggs was：On the third day，thirty per cent．；fourth day，forty－two per
cent．；fifth day，fifty per cent．；sixth day，sixty per cent．；seventh day，seventy per cent．；tenth dey，seventy－four ner cent．To determine how long after the male had been removed the eggs
would be fertile，the eggs from other hens were would be fertile，the eggs from other hens were had been removed，seventy per cent．of the eggs were fertile ：on the fifth dav，sixty－one per cent．； on the seventh day，forty－ninis par cent．om the eighth dav，twelve per cent．，and on the ninth day only two per cent．were fertile；those laid on
the tenth day were all infertile．Different results are obtained from experiments with turkeys；one nating of this class of birds being sufficient to fertilize the eggs for a whole season．Just what ing ducks we are not prepared to say．Neither can we say with certainty that by following the outline of these experiments and introducing a new rooster，the blood of the previously used cock
will be lost sight of．Excellent authorities claim that the effects of a certain mating will be noticed long after fresh blood has been introduced，but it is safe to say that the longer the pure－bred cock the characteristirs of prerions matings．

## Noleption．

Everyone would like to have the ideal hen that egins laying in November，keeps it up all winter， and raises a flock of nice plump cockerels and good laying pullets in the summer when etgs are
cheap．To secure such a class of poultry，we cheap．To secure such a class of poultry，we would say get some pure－bred enunaation select for the desired end．Selection is the groundwork of improvement，not only in poul－ try，but also in all farm stock．December laving strains do not come by chance．To get this rait，the pullets are hatched early，fed well to maturity，well－cared for in the fall，and indi－
there is a marked tendency shown by a few indil viduals to get down to earnest work，the eggs of
these few are used the following year for hatching， these few are used the following year for hatching，
and so the work for improvement goes on．The same course is followed in producing table fo wl． trouble is taken，and when the work is undertaken teligently and with dat
hen，and the over－fat，idle individual，should so spring comes and the time for hatching begins，the eggs from the most desirable types need only be
used．This systematic selection is the only wey in which we can increase the usefulness of poultry and the profits of poultry－raising

## B．C．Ponltry Honsa．

In reply to the request of your correspondent， asking for a plan for a henhouse，I plan I had prepared a short time ago for myself， and which I think fills the requirements fairly vear of a rimited number of hens．The space in rear of the nest boxes is intended for feoding the room in the west end is intended for a feed room， | room |
| :--- |
| etc． |
| Yale |

## Yale and Cariboo，B．C

## Ceacher and Scholar．

The public school，its associations and improve ment are subjects of growing interest and vilal com－ should be pleased to receive of a helpful and suggestivenature for this departiment of the＂Farmer＇s Advocate＂from those interested．

## Commends，the Schoul Depariniont．

To the Editor＂Farmer＇s Advocate＂
Doar Sir，－Was pleased to note by copy recent－ ceiving attention in your valluable paper，the ＂Advocate．＂Might I，$h$ vever，make a sugges－
tion？The relationsh＂of teacher and scholar is well emphasized in all the text－books of pedagogy that fall in the way of him or her who gives his relationship that receives but iittle attention，even in educational magazines．I mean the relation－ ship of teacher and parent．The reason is obvi－
ous．There is no medium of comes as well to the notice of the parent as to that of the teacher．Could you extend the scope of your new department so as to deal with the
relationships of parent as well as pupil and relationships of parent as well as pupil and
teacher？Hoping the department will be suecess－ ful，and assuring you of my willingness to assist you in any way possible，ARK SANDERCOTI：
Principal Napinka Schools．

## Plea on Bohalf of Cirl Pupils．

To the Editor＂Farmer＇：Advocate＂
Dear $\mathrm{Sir}_{;}-\mathrm{I}$ enjoyed the article on＂＂Natore tudy In regard to the former of these，is there any imply written and clearily illustrated book that will give the names and a few of the habits of nature study to have no names by which to fix our gathered scraps of knowledge．
As to the latter，I would be
started in latter， 1 would be glad to see it girl pupils be deprived of this uselul training ？I anderstand that sewing，or domestic economy，or some such study，is to take its place with them． Now it seems to me these things should no more
be part of a giri＇s course than that talloring be part of a giris coura then that talloring of course I admit that these branches form part of a true woman＇s necessary knowledge，for she must always be the home－maker；but，why hould the science of home－making be taught in is almost equally neceseary for the happineee of mankind ？It seems to me that the sichool is primarily for the building of character and train－ ing our youth for future eitizenstip．That being exercises to strengthen the weak points，and curb those already too strong，in order to produco a his natural procedure is set soide when me that course is under discussion．
It has always been charged against our sex， hat we are lacking in breedth of thought，weak in reasoning powers，and almost wholly wanting to petty details．And the cure for all this is－ more details，yet more narrowing subfects．When chance for work along constructive lines comed： give it to the boys（who，it is claimed，already
possess this power），the girls don＇t really need it because，you know，they can＇t do it anyway ！ If our girls had more of this sort of training． we would have fewer nervous，hysterical women， and a great increase of true，companionable
womankind．
（MTSS）F，H，CRMIGHION Louise Municipality． ［Dd．Note－As far as we know，no book treat－
ing of Canadian binds exclusively has yet been
written．Write Department of Agricultire，To－ written．Write Department of Agricultire，To－－
ronto，Ont．，for copy of bulletin by Chas ronto，Ont，for copy of bulletin by Chas．W
Nath，on Cithiten bris ato Agriculture，Washington，D．C．，for copy of Farm－
ers＇Bulletin No．54，entitled，＂Some common birds in their relation to agriculture．＂］

Easti eno


Hat



Soutn Sioe


## Derair of Nest osin

distaste for reading. The paper should be
good quality, and the type large and clear. A book with poor, thin paper is more easily soiled and more likely to be accidentally torn than is
one with a good quality of paper. Small, blurred one with a good quality of paper. Small, blurred
type is responsible for many defects of eyesight. Itpe iso tende to get one into the injurious habit of stooping over his work. Binding should be
strong and suited to. stand the wear and tear of strong and suited to. stand the wear and tear of
everyday use. A well-bound and well-printerd everyday use. A well-bound and well-printer much as one poorly bound and printed, but will be cheaper in the end, as a child will take better care of a good book than he will of on
will come to pieces with ordinary uisage. The following list of books may be useful in suggesting to some readers suitable material for the foundation of their libraries:

For Junior Grades.-Cyrs' Readers; Carpenter's Geographical Readers; Nelson's Readers (English);
Stories from Hnglish History, by H. O. Arnold-Foster Stories from English History, by H. O. Arnold-Foster ;
Seven Little Sisters; Cat Tails and Other Tales ; Aunt Martha's Corner Cupboard; 'Ten Boys Who Lived on the Road from Long Ago Till Now: Fifty Famous
Stories Retoll,' by Baldwin; Squirrels and Other Stories Retoth, by Baldwin : Squirrels and Other
Fur Bearers, by John Burroughs; Hans Brinker, or the Story of the Silver Skates; Story of Abraham Lincoln; Story of Garfield ; Secrets of the Woods; School of the Woods, by W. J. Long; ; Black Beauty :
Esop's Fables (selected) : Marquis' Stories of CanaAsop's Fables (selected); Marquis Stories of Cana-
dian History; Young Folks' History of America: dian History; Young Folks History of America :
First Study of Plant Life, Atkinson; Robinson Crasoe ; Swiss Family Robinson; Story of a Piece of Coal, by Grant Allen : Story of Columbus: Story land of Stars.
For Senior Grades.-Romance of Canadian History Pioneers of France in the New World; The Oregon
Trail. by Parkman; Tales of Adventure and the World Trail. by Parkman ; Tales of Adventure and the World


MOOSOMIN PUBLIG SOHOOL. of Ice, by Ballantyne: Nansen's Farthest North;
Little Men, Little Women; Tom Brown's School
Days: With Clive in India: With Wolfe in Canada: Days; With Clive in India; With Wolfe in Canada;
With Frederick the Great, by Henty. Scotion Chiers; With Frederick the Great, by Henty; Scottish Chiefs;
Spanish Story of the Armada, by Froude; English Spanish Story of the Armada, by Froude: English
Seamen in the Sixteenth Century, by Froude; Black Ivory: A Tale of South Africa; Tom Sawyer Round the World in Eiehty Days ; Last of the Barons Other Suns Than Ours, by Proctor ; Some Canadian Birds, by Chamberlain; Practical Agriculture; James ; John Halifax, Gentleman; Old Curiosity
Shop: Martin Chuzzlewit: The Talisman; Ivanhoe; Keuilworth; Tennyson's Poems; Longfellow' Poems; Pizarro, or the Conquest of Mexico : Story
of the British Race, by Grant $\Lambda$ Ilen: of the British Race, by Grant Allen; with Kitchene
to Khartoum, by Stevens ; Remarkable History of the Fudson's Bay Co., by Dr. Bryce ; Deeds that Won the Empire; Northwest Rebellion of 1885, by Major
Bolton; Life of Wellington: Life of Nelson. Bolton ;
Winnipeg

Educational Department: Appreciated.
Let me congratulate the "Advocate" on the hope it may bridge the chasm existing between the home and the school. and bring about a close
union. The ordinary newspaper and the educa union. The ordinary newspaper and the educa-
tional journals have tried this, but without success. If you succeed, the building up of the agricultural interests of the Province will not be your only triumph.
Selkirk Elect. Dist.
W. S.

A keen old curler who always appeared on the
tce with a cap having useful flaps, whith he pulted Ice with a cap having useful flaps, which he pulled
down over his ears, appeared one day in new headgear ". Whullo '... said a friend, ". Where's ye're autc
lug-warmer ". $\quad$ Ah! I've never worn it since my accident." "A A.ritent? I'm very sorry to hear of accident." ". A.rident? I'm very sorry to hear of
it what wac it a.. A Aman offered me a dram. an
wi they dashed flaps, I didna hienr him!."

## Methods of Stuety

The subject certainly is broad enough, even when it is understood as applying only to pupils not methods of teaching, but methods it. It is ot hods of teaching, but methods of study Furthermore, it does not apply to Stend wor because pupils in this standard, and Standard ecause pupils in this standard, and largely those sual sense iI., cannot be said to stuay in the usual sense of the term. Certainly they can be set to find out facts in naturistom about them, and they can acoomplish small tasks of rein can be drawn from what is aaid applies, the work for drawn from what is said about the then, is "How' can the senior pupils in sur ject, then, is most profitably purse their our public studies?

First of all, in order of difficulty, is the form tion of the haluit of study, and in this matter the pupil individually is paramount. A judicious parent stands next in influence. Many boys an girls have no "homework," ynless teacher set some definite task for to-morrow ; if it is for the homew to-morrow, then it is to-morrow night is, at best, a necessary evil, and it altogether lacks the satisfaction which comes from true study. The pupil who enjoys history is the on who, when the Norman Conquest is under study needs only a "hint tbout Lytton's "Harold," to be found in a day or two full of the wonder of Hilda's magic and Harold's prowess. The reading is partly the result of the enjoyment of his tory, but in a greater degree the enjoyment is the result of the reading. Euclid says the square on the hypotenuse of a right-angled triangle is equal the sum of the squares on the other two ses. if he mat whil cross the corner. If he measures once, he- will across the c

It is not necessary to multiply examples to gather the secret ; and when it is gathered it is for and by himself, he knows that has done wor ly and permanently. That is the reason our universities are proud of their extramural students, and year by year are giving more attention to that branch of their work
This problem of teaching a student how to study for himself, is one that our schools and teachers have too much neglected. Teachers get training in methods of teaching, but they too often do not give their pupils training in methods of study. Much matter is put into a pupil's mind, but his method of acquiring more is left to develop itself-which is a crime; for most pupils in this agricultural country of ours quit school
before anything like a liberal education is acquired. If they knew how to educate themselves, leaving school would be merely an incident in their education, but when they do not-_. But you will say that 1, too, am giving you much take an example of method in a pupil's study. In this article I shall confine myself to one methodthe topical analysis-and I can best explain that by using an example.
of the Crusades. A historical subject of this kind naturally divides itself into some such divisions as: T., Causes: IT., Events; III., Results; and an analysis of that kind should be in the student's
mind from the start. As he reads these topics will become amplified and subdivided. He should read with pencil and notebook at hand. Presently The Crusades-

1. Causes: 2. Insults to Pilgrims
2. Events: Three Major Crusades
3. 
4. Establishment of the Latin Kingdom. III. Results

Knowledge of and property peoples, science More study will mean further subdivision, and
robably a rearrangenient of some of the head-
such an analysis, grasps the subject in an orderly way, and he himser has made a distinct advance
his education is extended and he has new power for grappling with other subjects.
Let us take a simple example from literature. are the boys and girls who have rend any learned it by heart, without ever thinking that there was a plan in its composition. Would the appreciation of its beauty and pathos, or the ease of its recitation, in have
seen this it ?
Bingen on the Rhine :

1. The dying soldier.

His messages:
(a) To his brothers and companions.
(b) To his mother
(d) To his sweetheart.

His death.
I am quite aware that the use of "plans" of this kind is quite usual in teaching, but my montention is that pupils do not make such plans for
themselves, and this fact is largely responsible for themselves, and this fact is largely responsible for
the inability which they show when cast upon their own resources. The whe ceat upon
treatest intellectual benefit of of this. kind of work is that it teaches the student to fix upon the key to a situa-
tion or a subject, and to see its various parts in tion or a subject, and to see its various parts in
their true relative positions.
Assa. East.
Forticulture and Forestry.
The Oatlook for Apple Growing.
In connection with the theory of inherent hardiness of individual specimens, I would cite the case of the only "Transcendent" crab tree growing at the Experimental Farm. The tree in question is some years ago, and while there is absolutely nothing left of the balance (which have long ago succumbed to winter-killing), this specimen is today apparently quite hardy, not winter-killing in the slightest degree, and has for several seasons produced a good crop of fruit of an excellent sample. The second method pointed out in last
issue of the "Advocate," along the lines of which ssue of the "Advocate," along the lines of which something may be accomplishod towards the pro-
duction of a hardy apple for Mhnitoba and the Northwest, is "Sowing the seeds of Manitoba grown fruit" wherever procurable. Of course,
such seedlings will not all be of value, but it is such seedlings will not all be of value,
fuite within the bounds of probability that a very valuable fruit (for Manitoba) will be evolved own experiences along this line: In 1898 a large number of seedlings of the standard crabs were
planted at the Brandon Experimental Farm, the planted at the Brandon Experimental Farm, the Transcendent, Gideon, Hyslop, Snyder, Jumbo, Rose of Stanstead, and Martha. A portion of these were obtained from Ottawa, the balance heing grown from the seed of Manitoba fruit. With
the exception of the last mentioned (Martha), all these have proven too tender, having been repeatedly cut back to snowline. With the seedlings of Martha, however, the case has been entirely difierall of which have proven hardy since planting in 1898, and one of them fruited last season. The tree in question is an upright and shapely grower,
and the fruit was produced abundantly. The calyx and the fruit was produced abundantly. The calyx
was persistent, and the fruit firmly attached to was persistent, and the fruit firmly attached to toba). The color is a clear lemon yellow, with
the faintest suggestion of red on the sunny side, the flavor resembling that of the Transcendent, attaining to about two-thirds the size of that obtain, we have cause for congratulation, but as there are several trees which have not yet fruited,
other equally gratifying results may be antici-
The specimen in question can be thoroughly recommended as sufficiently hardy for general
cultivation in Manitoba, and I need scarcely add hat propagation of such specimens will be pushed along as rapidly as possible, in order to
material for distribution to the farmers.
With the larger apples, as yet we have only two specimens, one each of "Wealthy" and
"Tonka," and these again illustrate the superiority of Manitoba-grown trees over imported ones-t-grafts on to Pyrus baccata, of scions taken from his own trees, and, though previous importations from the East of the same
varieties have repeatedly proven failures, these rarieties have repeatedly proven failures, these
may be considered as fairly hardy, and a few fruit set last year, which was unfortunately stolen before attaining maturity. In your next issue I will give you a brief account of our experiments apple.

## Treee Beantify the Farm.

In 1887 Mr. Stewart, M.P.P., of Pilot Mount brought some blue spruce from Cypress River and transplanted them near his home. At first they made very slow growth, owing chiefly to being when this condidtion was changed and cultivation was given themb better changed and cultivation noticed, and fostered byid ever since steady growth has been thrifty and " 0 aname were experimented with at that time with good results.
A row of giruce on the south side of an orchard is a sptendid means of holding the snow around the roots of fruit trees and bushes. Being so placed it also retards early blossoming, and saves the fruit from the occasional early frosts. slopa choosing ia location land having a slight should desirable ; drainage calls for this, and the double slope have a north-eastern exposure, undue carly proowth that of drainage and checking spruce also has other purposes ; its usefulness as


A froiting beibling of "mabtha" orab.
Pho ${ }^{\circ}$ ographiod March 18\%, 1003.
a wind-break saves much fruit that otherwise would never get a chance to, remain on the parent stem until sufficiently matured for use in this its infestern country ; and, again, what about should be sufficient to repay for all labor
A double row of Manitoba maples, twenty feet ness the spruce, adds both beauty and userultrees this portion of the farm. Rows of othei break could also be planted, and a dense windpoplar are good for this purnose : the willow being especially adapted for the outer row of all, as it grows bueshy, down to the ground, and also
stands the styinging of wire for fencing White Seoteh 'birch is well adapted for high knolly land; fahd makes a beautiful tree, suitable for wind-bregks or ornamental purposes. The lilac bush grows well, and adds very much to the
appearance of the garden, especially in spring. appearance of the garden, especially in spring.
The small fruit ccrop would be very muich increased, as well, as the beauty of the garden and house surroundings greatly enhanced, if a systematic plan of plating and caring for a few leading which their usefulness justly demands.

## Questions and Pinswers.




 $=$

## Veterinary.

[Answered by our Veterinary Edilon]
Subscribers are kindty requesteth to read the conditions at the head of this department befor writing or mailing their enquiries.
Metthe-ragh or surfift -phountar oasme Mare, seven years old, not in toal one mornting the the her in the stable with breast, neck and under the belly covered with fat, hard tumps the stes of saucer, the ones on her neck beling as big as egge, I
gave, her saltpetre and sulphur, each, in bran mash twice. Also gave her ane each, in bran mash twice. Also gave her one tee-
spoonful of St. John's Condition Powder in gallon oats once a day. For roughage, I heve been feering
quite a lot of green sheaf oats, and frozen wheat in quite a lot of green sheaf oats and frozen wheat in
the straw, also hay and dry oats once a day, but did the straw, also hay and dry oats once a day, but did
not work her hard. The lumps heve now almost disnot work her hard. The lumps have now almost difs
appeared. She always had a good appetile, and looked bright in the eye. What was the matter with her, and
brear and and and what should I have given her?
2. Morse, plne years old, hast pring .ind ithit
spring for about a month has spells of piorting while spring for about a month has spells of eiorting while
eating. His halter shank, gets quite wet. He soas
to get mad with it. He rubs his nose, against the to get mad with it. He rubs his nose, against the
manger, and lits his front foot, tossing his head up
and down. When watering him at the tub, he, wilit put his head udown, then suddenly jerk it up, He doos
not drink more than hail as much as his mate. He is in good condition, and is fed hay three times a day, oats once. His tongue is dirty yollow lookting
at the sides, for the rest he looks all right. J. B. at the sides, for the
Riversdale, Assa.
Ans.-1. The teehnical name of this allection is harticari, it is a frequent form of, allin diseble in the long elevations, which arise very suddenly and usually overspread the greater portion of the body. The cause is generally attributed to some disorder of the
digestivef grgans, such as would be finduced by a studten charige of ditet, or giving à drithit of cota water when the animal is in a heated condition. It has also been observed after sudden exposure to cold, The reatiment conkists of a mild oleaginous pargative:
raw linseed oif, one to one and a half pints. Apply to raw linseed oir, one to one and a half pints: Apply to
the skin a lotion composed of bicarbonate of soods. our ounces s; water, one grart.
2. The symptome in this case point to some freitetion about the head, probably in comection with the ears, mouth and nose. The trouble may possibly be in the brain, which, as a matter of course, would be a very serious matter. Not knowing the nature of the

Ascrtiss os ABDOLmal dBorsy.
What was the cause of a two-year-old steer dying,
is water was dripping from him. He was given His water was dripping from him. He was given quite a quantity of sweet nitre, but it failed to relieve
him . He wee opened when deed and wes full of water) but had none in the bladder. No blood was to bo
E. E. J.

## Cardston, Alta.

Ans.-Your steer died from a disease known as scites or abdominal dropay. The causes are various. such as disease of the coats of the abdominal cavity
(peritoneum), disease of the, heart, liver, kidneys or portal blood vessels. Cattle that are poorly sheltered and fed on immutritive food during the winter are subject to this disease. When it is the result of chronie tisease in any of the tissues or organs I have menit is caused by bad care and feeding, the proper treatment would be a radical change for the better in both, combined with a course of mineral tonics.

## TAPEGORM In sHikEP.

Would sou kindly say what is good for tapeworms in sheep, and how to give the remedy to a large band
of 2,500 head. Will green grass in spring kill them ? of 2,500 head. Will green grass in spring kill them?
Irvine. Assa.
Ans.-The most effectual medicine for the expulsion of tapeworm in sheep, or any other animal, is oll of
malefern, but to give it to such a laree number of sheep as you mentioned would be a rather tedious undertaking, as it would have to be administered to each one individually. I would advise you to try the
ollowing, which may be given to them collectively: common, which fity pounds sulphate of iron, Anely powdered, eight pounds; areca nut, powdered) sta pounde: mir thoroughly, and Aistribite ovian haire ground where sheep can have access to lick it. Re-
peat once a week for three times. Green grass wit peat once a week for three times.
have a tendency to expel the worins.

## IRREGULAR STRAMGLES.

I have a colt, two years old, swelled in throat, where he has hard lump the size of a large egg. There broken and discharged in six places on her head and neqk. Colt has not been able to eat much, and breathes very hard. Has also had diffculty in urinating, the water being very thick. We fed on oat chop, and gave sulphite of soda and spirits of nitre for the
water. We also fed sulphur, and bled her about a wint. After lump on throat broke, we fed about three tablespoons sulphur daily, but throat again swelled ap worse than ever, but colt did not seem siok as be-
fore. It has now broken and discharged, but has left fore. - It has now broken and discharged, but has left
a very targe hote in throat. Can you tell me what a very targe hote in throat. Can you tell me what
the trouble is and how to treat if she should take it
H. K. again?

Creek, Lacombe, N.-W. T.
ins - Tour colt is suffering from the irregular form Ans.- iour coit is suffering irom athe the animal in a clean, comfortable
of strangles. Put of strangles. Put the animal in a clean, comfortaimes
and well-ventilated box stall. Give three times
daily, for ten days, by placing well back on tongue with tablespoon: chlorate and cimehona pulv., one dram Foment the sore parts cmichona pulv., one dram Foment the sorm soft water, adding one ounce of ereolin to each gallon of water. It is of much importance to keep the stall clean.
it is very improper to tibstract blood.

## shoulume hamennase

1 have a horse lane in the left fore foot, but does not show it to any extent unless when trotted. When standing, he bends his log out at the knee and rests it say how long he has been lame. I have had him shod, and he has no corn. The foot is dry shuffes along, waking he atime his toe. Would yout kindly adviee me What to do for him

Ane.-The symptoms you have mentioned indicale to me that the seat of lameness is in connection with the shoulder joint. but without further description I am not positive that such is the case. Stand directly in front of the animal, get its feet in a line weach each other, with, if possibie, equal bearing on each notice if the one on the affected limb projects farther than the other ; if so, the sign is one of shoulder
lameness. Place a pole about one and a half feet lameness. Place a pole about one and a half feet
from the gnound, and cause the animal to step over it. If it has diffoculty in raising the affected limb, the sign will also point to lameness in the shoulder, If when trotting the affected limb is advanced by describing the segment of a circle, this is another segn thit iameness. If you find the signs which I have mentioned exhibited, I would advise you to give the animal rest,
and apply to the shoulder joint and its immediate surand apply to the shoulder joint and its immediate surroundings the following bilister: Canthar. pulv., \& drams;
binfodite of mercury, two drems: veselinel four ouncess. This should be well rubbed in with the hand for the space of ten minutes, wash off in forty-eight hourrs, and apply vaseline to the blistered surfeed.
peat the blistering as soon as scab is removed.
maki wITH coder
I have a ftve-year-old mare that coughe considerably when eating or drinking. Frequently, at such times, she throws up a lump of half-chewed food. She
appears healthy, yet keeps thin, although well fed. She appears healthy, yet keeps thin, although well fed. She
gets oats and bran twice a day, and, frequently, boiled wheat or oats in addition ; in fact, as much as she will eat, for sometimee she does not clean up her feed. I have been giving her sulphur, condition powders, Day's Stock
Food, and some liquid medicine. She has a fashion Food, and some liquid medicine. She has a rashien Prince Albert, Sask
Ans.-If you had mentioned the length of time your mare has been coughing it would have materially as-
sited me in forming an approxinately correct diagnosis sited me in forming an approximately correct diagnosis
of the case. The coughing up of partially-masticated of the case. The coughing up of partially-masticated
food would indicate an irritable state of the throat or posterior part of the mouth. I would advise you to
examine the teeth and mouth carefully. Give, morning examine the teeth and mouth carefully. Give, morning
and evening, in bran mash, made by boiling one teaand evening, in bran mash, made by boiling one tea-
cupful of flaxseed in sufficient water to scald three or four quarts of bran, chlorate and nitrate of potassium, one drame each; powdered licuorice, four drams. Con-
tinue treatment for one week. Give small feed of tinue treatmen
oats at noon.

bad Foot.

I have a horse with a very bad foot. The hoof
seems to be rotting away on the outside and upper surface. The sole and frog seem all right is not lame. I think he must have got the horn injured ly
breaking through hard crust of snow when breaking trails before I got him. If I can do anything for him, kindly tell me through the medium of your valuable paper, and oblige
Rapld City, Man.
Ans.- The natural secretion of horn has been checked, probably by some external cause, such as
you mentioned, or by some internal abnormal condi-
tion of the secretory you men the secretory substance all partially detached horn, and after clipping the hair closely from the coronet apply to it the following
blister by rubbing well in with the fingers: pulverized cantharides, two drams; vaseline, one and one-half ounces: mix. Dress the hoof once daily with carbolized oil :

## WOUMDED FETLOCK

I have a mare that, in some way, got a seruatuch on one of her hind fetiock joints. 1 did not talke and up. Then it got a little inflamed, so I thougght If hand better do something. I poulticed it two or thmue
times with bran, but as she kicked abouti a liot Il lieft off, thinking that by her kicking she wowlid malke ial worse. The poultices drew matter from the wownit
Since then I have bathed it occasionally with wather and kept a bandage over it and vaseline om it In seems healing and the inflamation has ditismppemnedth,
but the swelling remains. The scab is rather a loriplna but the swelling remains. The scab is rather a dinghit condition. It is nearly three weelks sime ill filmst noticed the scratch. It is tender yet to the toumain,
and the swelling is all round the joint. Cam rour and vise me what to do ?
Ans.-Probably the ivound was exposedil tio firwast, Which would be the cause of the subsequent inflummantion. prepare her for physic by feeding exalinesituelly on bran mash diet for at least sixixteem lhounss one ounce: give the following dose: Barbacioess aillows. sufficient to form a ball. Continue the bram mines rations until the physic has ceased to operatiac clury
the hair closely from the swollen fetlock, rund purint the hair closely from tbe swollen fetlock, sund puint
every alternate day with strong tincture of iodime iodine, four drams; iodide of potassium, three dramms:
alcohol, four ounces. When skin become quithe seme alcohol, four ounces. When skin become
leave off for a few days, and then repeat.

## SWAMT FEVER

I have a two-year-old colt which had an wery bund attack of swanap fever about two monthis aga, amm hand Would you let me know through your paper whatt is best to do for him

Ans.-A wobbling or swaying gait behinci indeficathes veakness of the loins, and is a charaetenisttic sequuel a. large majority of such cases, the condilitiom ins meth amenable to treatment. The animal being younss, amm if not greatly reduced in flesh, you mays tray the fiont lowing: nux vomica pulv., half a dram: : efuinime,
forty grains; bicarbonate of potassiom, omet diram : to be given moruing and evening for two weellss in and repeat. Discontinue the meditine for ene weat and repeat as before. Rub the following limimentit inttoer
the loins ouce daily for one week: soap linimenti, bieur ounces; tincture of cantharides, two ouncerss: spuinitits of camphor, three ounces ; tincture of capsicum.

Cow dropped her fourth call, fin Thetruargy-
After second calf the hind quarters of lher willer After second calf the hind quarters of her waldher
gave lumpy, bloody milk. The guartiens arl thl gave lumpy, bloody milk. The quartenss whe the
same now, and there is a sore lump about the stine of an apple that was caused by a kiedk, Is , whe
condition hereditary ? Ans.-The lumpy and bloody milik is cansercd boy inflammation of the udder. Purge her witth twwe pounds Epsom salts ; apply hot poulticess the
udder, and rub well with camphorated ent, times daily. The lump can be reducedl ber mulbline twice daily with compound iodine olntment. Iht kick mentioned, and hence is not hereditaury, aumd not likely to app
duce of her sons.
parfial paraligis and laminitis 1. Mare has occasional attacks of gemerrall obe bility, with partial loss of appetite She iss dhill
and eats little, appears stiff over kidneyss, aund iis inclined to roll from side to side. Her foodl chemsists of good timothy hay and twe quartss broilled oats once daily, also a few turnips. II have giiven 2. Mar powders, with no good results. is a little got loose and ate too much baurlied: she New Westminster, B.C
Ans.-1. Your mare has partial parrallyssis ginger. Give two drams nux and two diramus daily. As her appetite improves, feedi more outlss give at least two quarts of whole oats, oir
equivalent of boiled ones, three times equivalent of boiled ones, three times daillys.
2. This mare was foundered from an oxrentien 2. This mare was foundered from an onvern-fiered
barley. Prompt treatment would have efliectied a perfect cure, but it will be more difficentllt tho
treat now that it has become chronic. (Cliip tinhe treat now that it has become chronic. (Cliip, the
hair off all round the hoof, for about twwe findhess up the pastern, and blister repeatedly with twwo
drs. biniodide of mercury, two drams cantitharixiones drs. biniodide of mercury,
and two ounces vaseline.

Cunthactid foot.
Have mare with a contracted foot, amd is guritue lame. Have lately been getting her shod ty yowod Ans.-Apply a linseed poultice to the fromoth inf blister, composed of cantharides, one trame pminior
dide of mercury, one dram; lard, one oumee to the coronet, once a month, for two ore ounce. three throme the the firsi blister the first blister.

In September last my mare cut her corone with barbed wire ; the limb appeared to be cut halif through. The wound healed slowly, and sh is still very lame. The muscles of the shoulder hare fatlen away. Would it be wrong to work
Ans-Wounds in this region heal slowly
Ans.-Wouns in this pared away around the edges and the foot poul thiced for a few hours each day with linseed meal The fleshy wound should be dressed regularly wit one part carbolic acid to twenty parts sweet oil The shrinking of the muscles of the shoulder is Awe to inaction on account of the lameness; when the lameness disappears the muscles will regain their normal condition. She certainly should not be worked. It would be a well marked case of cruelty to animals.

## eythema.

Brood mare that was feid highly on oats, with a small percentage of barley, has broken out with a sort of itch on all her legs, from hocks an Inees to feet. She bies and sith soap suids ant Thave been washing her legs with soap suds and applying copperas water, but Ans.-Your mare has a
theme. Many hairy-legred horses ase called possed to it. Do not wash at all. If the legs get wet and muddy, allow them to dry and then brush. If she were not in foal, a purgative of alloes would be good treatment, but this is unsafe on pregnant mares. Feed largely on bran and rroots, very little grain. Give two ounces Fowler's solution of arsenic, twice daily, and dress th legs with corrosive sublimate one part ; water rts.
CUPE AND CONTRACTED HOOF

1. Colt, two years old, has curb. Ilease give 2. The front feet of two-year-old collt are smal and the frogs of same are poorly developed. Can anything be done to promote the growth of feet and the development of frogs ? blister as follows: Cantharides, one dram; binio phy lightly, once a month for three months.

As your colt is young, a run at pasture this tammp parts in it by preference. A blister to the damp parts in it by preference. A blister to the they still require treatment after the run on pas ture.

ITOHY LEGS.
Four-year-old Clyde has itchy legs; she rubs and bites the

Is in good condition and driven docasionall
toms are of a D. D. Ans.- The symptoms are of a very genera
mature. Withhold feed for twenty-four hours, then give eight drams of powdered aloes and two drams of ginger, made into a ball with syrup. After this feed on light, cooling feed for a few diays. Give plenty of exercise. If the legs have water and castile soap; dry by rubbing well with dry, clean sawdust, and apply three times per day a solution containing one part carbolic acid t twenty parts water. When the sores begin to
theal, rub with vaseline, mutton tallow, or other hireal, grease.
chorka in nog.
Dog is stiff, jaws snap; there appears to be a forming on top of head, as though an abscess were borming. He moves with difficult
Ans.-Your dog has chorea, and it is doubtif if he will recover. Keep him in a comfortable dry, well-ventilated place ; purge with thirty grs
ialap and two grs. calomel ; follow up with ten gr. doses bromide of potassium, three times daily Give him anything he will eat, but in small quanescape of pus, and dress daily with and allow th solution pus, and dress daily with a five per cen would be well to show him to your veterinarian.

My cow gives bloody milk from all four teats It was the color of brown paint when she calved
but is gradually getting whiter.
R. M. Ans.-Mloody milk is due to rupture of some of
the small bloodvessels in the udder. There is a ongenital weakness in the bloodvessels in som cannot be prevented, but the condition is liable to nocur in any cow, especially at the time of calving athe the udder well and often with cold wate vint of cold water, twice daily, until blood cease
 Two-year-old colt has had a discharge from his nose and difficully in swallowing ever since he was ix months old.
Ans.-Your colt has nasal gleet, and in a chronic case like this, it is probable an operation y a veterinarian ry giving one dram sulphate of copper, night an ults, take him to your veterinarian for examina ion, and if necessary an operation. A bliste
will remove the soreness of the throat.
periodio ophthalimia.
Five-year-old horse has trouble in his eyes. The eterinarian says it is periodic ophthalmia. The
nan from whom I bought him says he had pink ye as a two-year-old. W. M. Ans.-As you give no symptoms, it is impos-
shbe for me to give an opinion, but doubtless your eterinarian is correct, and there is no cure. He ill, in all probability, eventually go blind. All hat can be done is to treat each attack by put om strong light partially darkened stall; protect well and often with warm water, and put a few rops of the following into each eye, twice daily
sulphate of atropia, ten grs.; distilled water, two sulphate of atropta, The attacks cannot be prevented.
haly of udder not fully neveloped.
One side of cow's udder does not give as much
tilk as the other, the teats are smaller, and the quarters feel rather withered. The udder is large
and fat. This is a congenital conformation.
Ans.-This is a congenital conformation, not due to disease. Hand rubbing may be followed by good resuits, by stimulating the quarters to nould do no good.

Lump Jaw.
My heifer has lump jaw; bone not affected.
Would it be advisable to have the tumor dissected E. L. P. Ans.-Yes; all aiflected tiss

## FILING HOR8E's TEETH

Can the teeth of an old horse be filed so that e can eat better, or will he have to be fed on
oft feed, so he can work through the summer ?

Ans.-Yes. Have a good veterinary do the job for you.

## Miscellaneous

Subscribers are kinnlly requested to read the onditions at the head of thrs department befon writing or mating their enquiries

REGISTERTNG BOLL
I have a Shorthorn bull that is registered in the
American Shorthorn Registry. In taking him across he line to Canada, what would I have to do in orde o have him registered in the Dominion Herdbook, an what would it c
Ans.-As there are certain Shorthorns registered in the American Herdbook whose pedigrees are not accepted by the Canadian Registry, it would irst
necessary for you to submit the pedigree to Henry necessary for you to submit the pedigree to Henry
Wade. Secretary Dominion Cattle Breeders' Association ade. Secretary Dominiou Cattle Breeders Assoch Then provided it is accepted, you will be required to pay
$\$ 1.25$ if the animal is under twenty-four months old r $\$ 1.75$ if over that age. You will also be obliged o have registered those of his direct ancestors bred in he "nited States not already registered in the Cana-
san volume. In addition to this, the bull must pass he tuberculin test before he will be allowed to cross, in auy event. Better submit the pedigree to Mr
Wade first, and if it be accepted and you decide to Wade first, and if it be accepted and you .
have him registered, write Chas. Little, V., Winni-
, be useless to incur the expense of registering the ani-
nal until you are certain that he will be allowed to me into Canada.
barlet for horge feed

## In one of your late issues you recoinmended barley

 as good feed for horses, but did not state how itshould be used. Should it be steamed, or would it hould be used. Should at be steamed, or woutd
do to feed it as we do oats? Didsbury, Álta
Ans.- Barley, although good horse feed, is by no
neans equal to oats, nor should it at any time conmeans equal to oats, nor shoula at any aime con steaned barley makes a splendid addition to the bill ff fare for our noble friend, if fed, say two or thre times a week, as his evening meal. The best way of
feeding uncooked barley to the horse is to have it reeding uncooked barley to the horse is to have it
crushed, that is, merely flattened between iron rollers "rushed, that is, merely flattened between How rever, it
This is both palatable and acceptable. However can safely be fed whole where the horse's teeth ar
cood. Ground barley, when mixed with the saliva Yorms a pasty mass which is unpleasant to the hors while eating. One quarter barley and three of oats
makes a good mixtire, but conllot be recommended in

## 

What kind of grass seed is best to sow with brome grass for pasture?
2. Would it be advisable to sow grass seed with factory ?

## Holmfield.

Ans.-1. Western rye grass
when in favorable seasons, a fair catch is obtained particular soe with a nurse crop, but brome grass for that ruestion appears to us rather vague, and answered, unless put in more definite form. If it is for killing weeds on the summer-fallow that is meant, it largely depends upon the size and nature of the weeds as to which impler ent will give the best results. that is anes fair satisfaction on land where the weed are very small. It resembles a horse rake without wheels, the teeth having less curve and without play.

NORTH OF LAKE manitoba.
Could you tell me what the country north of Lake where the G.T. R. is going? Is it fit for wheat, o is it all marsh? Where could I find out most par Penrith, Man.
Ans. - The country north of Lake Manitoba is considered to be well adapted for mixed farming, con${ }_{\mathrm{t}}$ is imphessible and abundance of grass. At present, The Department of the Thterior. Ottawa. could give fuller particulars.

(Photo by a R. Parsono.) BREAE OF DAI (76817). Two-year-old Shorthorn bull. Winner of many prizes at principal English Shows the property of mr. c. w. kellock, audlem, ohebhit.

## sheice dips AND wook.

1. Can you give a recoipt for a good cheap sheep dip for killing ticks? Regular dips come to over two cents per head.
2. What is washed wool as quoted in markets at 17 t cents? Buyers here pay only fivey cents or si
cents for unwashed. cents for unwashed
Kelowna, B. . .

SUBSCRIBER.
Ans.-1. Dissolve three pounds of powdered 'white rsenic in six gallions of boliling water, then add 40 gallons of cold water, stirring until the water is well nixed. Increase this amiount at same proportions ac cordiag to the number of sheep you wish to dip. White owdered arsenic, in many places, can be bought for 12 cents per pound or less, so that this mixture would cheaper than two cents per head. Be careful it you use this dip not to allow the lambs back with the sheep until the ewes are well drained. This mix
ure will not injure the hands, even if they are slight-
ly cut. Washed wool is understion to be wool that has
2. reen washed on the sheep's back. Wool that is washed after the sheep are clipped is deficient in yolk, consequently is more harsh and less valuable. Unwashe wool contains constderable dirt, and in most cases from ence in price that you mention is very marked, eve when all these things are considered.
british patent departiment.
Will you kindly give me the address of the British Isles Paten
Moosomi

Ans.-Somerset House, London, E. C., England

## PIG8 OA sizaires.

Having arrlved lately in this country and having read with greitt Interest your paper on Parming, etc. I should esteem it a favor if you would klndly give
me your valuable opinion on an idea of mine wivith me your valuable opinion on an idea of mine with
regard to pigs. regard to pigs. I have about $\$ 100.00$ to invest, and I thought it would be a good ideo to buy of yours and let him feed them and do all the necessary work and then pay him from the outcoming stock. Wo you think the idea is at all worth entertaining; it so, kindly state about what share he should expect?
Deuphin District.
GHAS. I. LAWREICO.

Ans.-With good, healthy stock and an attentive man, especially at farrowing time, the idea is feasible. To state definitely what share would be fust to both parties is impossible without more details. A larger
number of grade sows can be purchased for $\$ 100.00$ number of grade sows can be ply thased or $\$ 100.00$ their progeny would require more feed and work for the same returns, and thus the partner who attended to that part would justly be entitiled to a larger proportion. of the divioends. The age of the arst stbok
purchased would aloo make a difierence, as in anmie cases they would require more feed and attention before returns would be forthcoming, so that no conIf the money can be given to the question as askided. old, and they were grown and marketed at a welght old, and they, were grown, and marketed at a welght
of 175 to 200 lbe .ech fhen seven monthe old, the man who led and cared for them should recolve about $\$ 2.00$ out of every $\$ 3.00$ obtained.
PIPES OR OEMEAT TIHE TOR mREGATON:
I have a large pond held by a dam 13 foet high, some 600 feet from my garden. At present. I am
using wooden troughs. to convey the water to irrigate the garden, but as the intervening ground io low and, consequenily ground the troughs high,
the wind has considerable force, which ofton causes them to loak,
so I thought possibly by getting so I thought possibly by getting
moulds I could make cement tile, and place thens two. feet cunder
the ground with the Joints cement. the ground with the Joints cement-
ed, and then have a tap at the garden end, which would allow me to use the water at pleasure.
MIy garden is one foot lower
than bottom of dam, than bottom of dam, and I wish require to go to the dam to
turn on the water. I tron pipes would give satisfac-
tion, but fear that the cont would be more. than I ceire to
pay at present. Any advice you pay at present. Any adyice yo
can give will be accetable.
H. ANTICKNAP. Regina District. Ans, - Cement or tile plping would not prove setistactory in
your case. Both are somewhat porous, and no matter how well you cement the joints the heenv pressure of water would be liable to find many weak spots, and,
consequently, considerablo loss of water be the result. For your
purpose the iron pipe would give size would tikely be as an inch you require, the cost would.
little you require, the cost would
$\qquad$ when you
to cement to cement the joints. In laying the plpen, see that they are put aafely below danger of frost. By using iron you would nut there should be a cheche valve ere to allow of draining the pipe in the fall.
pherainiva Lingased nois oative,
What is the best way of preparing linseed so that it will mix satisfactorily with skim milk? I proter the seeds whole rather than the meal for calves. I
have tried boiling it for 31 hours in water, but getil it was very thick, with many of the seeds unberat; in fact, it formed a jelly, and would not mix with warm skim milk.
Sidney, B. ©.

## Sidney, B. C.

Ans.-There is no better inethod of preparing inseed for calves than the way you have described, only you have not used sumelent water when boliling
it. Had you used more it would not have formed mech a thick jelly, and, consequently, would have mixed mfuch more readily with the milk. Many only stoep the seeds, but, of course, this is not
and is merely done to save labor.
burinina stuips.
Do you racommend the following method for rotting pire stumps, and will they burn well in the fall if this is done in the spring? Bore an auger hole th the center, put in one ounce saicpetre, a subscribir.
to dissolve same, then plug. A
Okanagan, B. C.
Ans.-We have heard of this plan as beling convidered of some use in helping stumps to burn, yet aire
not in a poition to strongly recommend it or the not in a position to strongly recommend it or the
reverse. If any of our readers have had experience in burning stumps in this way we would be pleased to hear from them.

## nag pmenemative.

Which is the better way to keep eggs-from the
time they are plentifut until the winter, so that we may get good market-is cold-storage or pic king best? ? I cold-storage, how is it and how is it made? We thin pickied, what kind and how is it made ?
there is a glycerine pickle ; is it expensive ?
R. \& $\mathbf{D}$.

Ans.- Cold-storage, either by means of ice or is a retifiscrator mechine, wil preserve eggs, but Is rather expensive,
In some of the larger cities, eggs are kept thi
way for one cent per dozen for the summer. Pic way for one cent per dozen for the summer. Pic kling is, perhaps, a cheaper way to keep eggs over
summer. The best pickle we know of is that summer, Thee best pickie we kater-glass, or sodium silicate, is for sale at any drug store, in
s. semi-fuid condition. This is mixed with twenty a semi-fuid condition. This is mixed with twent parts water, and poured over the eggs until the
cop laver is covered. The eggs are left in this solution until they are required for market. Bar rele eut in holves make good casks for storing When buying in large quantities, water-glass should be had ip areserved in the "Glycerine Pickle"" returned
Egggs prity per cent. bad at the end o season, where
eighty per eighty per cent. bad at the

- BLumais sitiamiva。

What is meant by stubbie shparing of sheep?
Ans. - See letters on early shearing in this Ans.- See letters on early shearing in this
issue. Stubble shoaring meaps leaving an inch
or mone of the old wool for the purpose of making the sheep look lairger when the showing; or selling season arrives. The practice is sometimes carried to ridiculous extremes, neain places to hid defects in the formation, the intention evidently being to deceive iudges and buyers. A competent
judge, however, is apt to consider it a confession of weaknoss, and will not be decelved by it, as the dry and dead appearance of the old wool is quite apparent, and only leads to a more critical ex amination for discovery of the failing attempted
to be covered up. It is probable that in not a fow cases prizes have been lost owing to the sus picion or prejudice created by this practice. The best
fing.

BROME GRAS8 PAFTURE
We sowed a 22-acre field with brome grass seed about the first of last August at the rete of pasture it;
ladst one, Man.
Ans.-You may safely pasture it as soon as the grass gets a good start in the spring or early sumimer To get the best returns, do not allow it to become beaten down too closely the hirst season, expected the time when very dry weather may be expected to cu
It will bear seed this year, but many prefer to the frret erop for hey, beifioving that by so doimg many weeds
seed.

## Field Notes

A stallion show will be held at Regina on May 6th.
The Dominion Swine Breeders' Association will conWinnipeg Industrial Exhibition.

## Controlling Elevators.

The following petition, which has been circulated and freely signed by farmers in the Moose Jaw District, was
recoived a few weeks ago from Wm. Watson, but, with received a few weeks ago rrom wm. Watson, but, win
considerable other matter of special interest, was unavoidably crowded out of our special Immigratio number :
The
petition of the undersigned farmers and
of the Moose Jaw District humbly showeth: citizens of the Moose Jaw District humbly showeth
That the plundering manipulations of the Elevato Combine have become a menace to the peace an prosperity of the
be longer endured
That, while under existing conditions the regulating by preventive legislation on the lines laid down by our Western M. P.'s, Agricultural Societies, Grain growers' Association and Northwest Senators is
pressing and absolute necessity, yet that past experience incontestably proves that nothing but imma terial, spasmodic and occasional relief can be secure by such legislation. Proof, that after all the acts suc ment, "all good and well directed,"' the exactions and plunderings of the Elevator Combine are greater now than in any previous year.
erefore, respectfully urge and demand that a new system of farmers' elevators be inaugurated
to be operated in the interest and to the advantage of the producer, instead of, as at present, to that o the Elevator Combine, and that legislation giving
effect to this be passed at the approaching session of effect to this be passed at the approaching session o
Parliament; and containing the necessary directions and machinery to start operations the incoming season.

That an annual tax be levied on all grain marketed
Passed through elevators in the West, and the probeying combine elevators. That the last year's buying combine elevators, That and the Northwest is $126,000,000$ bushels, and, deducting $50,000,00$ bushels
for seed, feed and grain otherwise disposed of, for seed, feed and grain otherwise disposed of,
$76,000,000$ bushels remain to be passed through the 76,000,000
That a tax of a quarter cent per bushel would yield $\$ 190,000$, which would build 38 elevators at an averag cost of $\$ 5,000$ each.
with the vast influx of immigrants now assured and consequent increased acreage to be put in crop, the quarter cent per bushel would build 50,75 and 100 or 1,000 in five years.
That if experience and public sentiment, as ex pressed from time to time by Manitoba and Northwest M1. P.'s, Grain-growers' Associations, and Agricuitural Societies, require it said tax of a quagreer cont per but not to exceed one-half cent per bushel in any on year.
That That if the people and Government of Manitoba deen it be put in operation in the Northwest.
it be put the tax levied be expended in the district where collected.
That in view of the elevator record of the last fe and present years, that the Government take into consideration the expediency of collecting a special tax por the remainder and that a grant be given this year from the Dominion Treasury, to be repaid, to expedite the building of farmers" elevators.
That Government control
That Government control and supervision be given to the extent of ensuring that the grain reach it
destination without mixing or shading with softer or inferior grain, and such further control as experienc shall warrant.
That the Government of the neighboring Republic for several years with little or no success.
That under the wise guidance of President Roosevel a bill has been passed through Congress by a unanimous vote, and is now before the Senate, dealing wilh
this Behemoth of recent years, the keystone of whicl is-Pubilecity.
That we are entitled to publicity in elevato transactions.
That we demand that competent, responsible, trust worthy men examine, certify and publish, under oath
the number of bushels received, or bought and sold, a each elevator, and surplus, if any, over what was bought, with prices paid and received; thus putting a
check on weight and dockage and making public th check on weight and dockage and making pum above fair legitimate profit and the rake-off ascertained and sold and the proceeds added to the Farmers' Elevato Fund ; it being essential that the vast crops of And your petitioners, as in duty pray.

## A Dominion Exhibition

An order-in-council, approving of a grant of
$\$ 50,000$ for a Dominion Exhibition at Toronto this year, has been passed at Ottawa. This, we presume practically settles the question, end whetever opintons may be entertained as to the reasonableness or other
wise of undertaking to prepare for an adequate dis play of the Dominion products in the space of four or flay of the Domins, a brave attempt should now be made to Improve the time and appropriation to the best possible advantage in bringing together as good a display as possible under the clrcumstances in adires and
stock, agricultural, hortcultural and dairy products
and also of the products of our mines and forests, in and also of the products of our mines and forests, in
order that visitors from other lands may be glven some Idea of the capabilities of the country. Dr. Orland Orr, the new manager, announces that arrangements and that another special feature of the exhibition this
year will be the display of many important processes year will be the display of
of manufacture in all stages

## Eden Bank Creamery

The report of the directors of the Eden Bank
reamery at Sardis. B. c., shows that the creamery received, during the last season, milk and cream test ing 10, 590 lbs . of butter-fat, which made 18,580 pos
of butter. Thls butter sold for an average price of butter. This butter sold for an average price
(after deduoting commtosions and freight) of 24.72 cents per pound. an advance of 31 cent per pound
over the average price of 1901 .

The Wellington Field Naturalists
red-winged blackbirds. White-rumped
and winter wrens as having arrived b
and flocks of Canadian geese were on that day see flying northwards. The red-winged blackbirds are
later by ten days than last year. the white-rumpe shrikes earlier by two days, the phombe by a day, the
winter wrens by eleven days, and the Canadian geese by twelve days. Shepherd's-purse a
were found flowering on the some

## Hackney Horso Show

During the first week in March, the Hackney Hall, London, Fangland. Interest had bien deviloping in the Hackney horse during the last lew years, and as a consequence the show was larger the overy respect than ever before. The awaing of the final championship to Mashtul Kate, a two-year-old tiosador filly, Country show. Queen of the South, owned by Mr. Livesey, a mature mare over 15 hands was the chotce
of the spectators, and when she was beafen by the or the spectators, and when she was beaton by the modern end edvenced breeders are kombwhit changing the type of the Hackney, and there miNy be fsomething In the award that is worthy of serfions cogitation. place is in the harness and not under the siaddle, and in breeding to this latter type old ideals of style and etion may have to be slightly changed. The male champlonship was won by Mir. C. .. Galbraith's Adreserve. This decision was, apparently, popular and just. The show throughout was most successfal, and the awards generally satistactory. A proper realizaof the most certain signs that in the future be will be come more popular than ever. To his credit it can be said that for soundness and style the is easily in the first rank of harness horses, and, whether to his credit or not, he succeeded in beating the Thorgughbreds in
jumplng at the Hunter Show, which followed that of umpling at the the

Shire Horse Show in London.
The last week in February and the first two weeks in March saw remorkeble ectivity in the horre business
in Old London. The interest began with the annual Shire Horse Show. The entries, though fairly satisactory, were not as large as in recent previous years. but the quality of the exhibit was well maintained. horse is hise feature in connection with the Shire whom his breeding is followed as a hobby, a pastime and, in some instances, as a profitable occupation.

 | and prize lists. This, however, does not decrease the |
| :--- |
| and | popularity of the Shire with the farmers. The chamTom, Messrs. Forshaw \& Sons ${ }^{\text {a }}$ eleven-year-old horse, who was winner of the same honor last year. His reserve this year was the three-year-old Birdsall heir contest, Lord Rothechilld's Solace, nine yeera old, by Lord Arthur ; dam Madame Albani, by Prince William, was in possession of the Gold Challenge Cup and champion cap for the best mare, her stable comcold medal which is presented to the breeder of the championship mare thus fell to His Majesty the King, who received the token from the president of the Shire

## The Cattle-guards Question.

Mr. E. A. Lancaster, M. P., of St. Catharines, Ont., has aglin introduced in the Hoves of Oommons
his Cattle-guard Bill, the substance of which simply is to cortpel the railways to use a guard that will ompanies responsible for cattle killed on the tracka if they do not protect the highway crossings with proper guards. This is practically as the law wused
to be. He asked that Parliament iteelf pronouce upon the principle and not refor it to the Rallway Committee, where it was blocked last seselon. Dr. Sproule, M. P., remarked that the commilttee was the graveyard of bills of that sort. Pending the report
of the famous Cattle-guards Commission, the bill was of the famous Cat
sent to commilteo.

## Extension of Markets Division.

 Mr. W. W. Moore has been appointed Chtef of the particent of Agriculture. The work that hes leen carried on by Prof. Robertson, under this head, has srown so extensively of late that it has been conMoore has toen establish a separate division. Mr. years. He visited South Afrlca in connection with the shipments of Canadign products there during the ate war, and on his return had charge of all theAn Independent Line.
and and other points on the C. \& E. Raillway, have underNo Jine of telcphone communication at present exists, and the promoters are to be commended for their enterbuilding a only aiming to provide a necessity, but in

Calgary Stock-yards.
A Montreal syndicate has arranged with the city Of Calgary to establish large stock-yards in thet the city
entive
enter of stock-raising. The company is putchasing twe.ly acres of lant at $\$ 1.000$, agreeing to putchasing
city the
bifty per cent. of the market fees and to erect
buidg to the value of $\$ 6,000$ the first year.

APRIL 6. 1903

## THE FARMER'S ADVOCATE.

Meeting of Stock Breeders' Executive。 The executive conmitter of each of the live-stock
ssociations met for the transaction of business iv the seretary's office, Wiinipeg. on March 18 the reviston of the Wininipeg Industrial prize list, the election of juages for the leading shows, the proposiondige ears of stock to the Calgary Fair the cattle breeders' meeting it was decided to recomend to the Exhibition Board that, the age of cattle heretofore. In the past there has been dissatisfaction in the to be barren have been allowed to win. Every member of the executive fert hat the cume hac come when forced, and it was decided to recommend that the word "indisputable" be inserted after the word show in the second lime of clause 3 of cattle rules.
he cattlo which were being shown in the ringldge of the cattle which were being shown in the ring, it was
decided to oask that it be made compulsory for each attendant in coming into the ring with an animal to vear a double card, one to hang on his back and the
pther on his breast, announcing the catalogue number, weight and age of the animal which he elect. In the prize list for horses, a class of three sections
vas added for Percherons. was added for Percherons. For aged stallion, the
prives wiin be $\$ 25.815$ and $\$ 10 ;$ three-year-olda $\$ 20$, 10 and mare, not necosearily a breeder, and for ehampion
stallion and mare in each class a diploma ribbon will stallion and
be a awrded.

The show of dairy products will be encouraged this he creamery butter classes, in lieu of what was withheld last year on a sustained protest. There will also e two buttermaking compotitions-one for men and
the other for women- $\$ 73.00$ being added for this purpose.
A few splendid cash contributions have been made
owards maling the prize list ono that will dram Lowards making the prize list one that will draw out
Sood competition.
The Massey-Harris Co. are giving ten per cent. of the cash oprieses in the cattle classes,
and W . L. Lister, Middlochurch, has donated a $\$ 100$ ap to the champion Shorthorn, elther male"or female, the same to be won two years before becoming the property
of an exhibitor. $"$ He also donated $\$ 25$ for the reserve for champlonship. The prize list is now in the hands

## Brandon Farmers' Institute Meeting.

The regular monthly meeting of this Institute was eld in the Council Chamber, on the 21 st ultimo, with
president Kennedy in the chair, there being about 20 members present. After the routione busineses had been
transacted, the chairman introduced the speaker of the ransacted, the ohairman introduced the speaker of the
Iternoon, Mr. Harry Brown, Horticulturist of the Experimental Farm. The subject of Mr. Brown's address vas, " A General Review of Horticultural Experiments at the Brandon Experimental Farm," and the speaker, fopics of horticulture in Manitoba, The various headings are apple-growing, plum-growing and cherry-
groving,. followed by a review of the small-fruit quesgrowing., followed by a review of the small-fruit ques-
tion. Vegetables were next taken up, together with a resume of the Farm experiments in hedgea, howering
a shrubs, and annual and perennial flowers. At the conclusion or the address, there was a very interesting
discussion, and a hearty vote of thanks was tendered discussion, and a hearty vote of thanks was tendered
Mr. Brown. The suggestion was made and heartily endorsed by the meeting, that in view of the com-
 orm and several thousand copies distributed through-
 Wallace, the well-known nurseryman, of Brandon, and
committee was appointed to carry it into effect. which, when accomplished, should prove of great value

The Transportation Commission. Sir William Van Horne, Mantreal; Mr. John
Bertram, Toronto and Mr. Harold Kennedy. Quebec,
were were on April 6th appointed members of the trans-
portation Commission.
It is supposed that the Commission will be called together at an early date. This
Commission is entirely distinct from the permanent Commission is entirely distinct from the permaner
Railway Commission, and is of a temporaty character,
 acciit ties, including all-Canadian route to seaboard and Smut Preventives. The best way to treat smut is to prevent it. Dis-
solve $a$ pound of bluestone in a wooden pail of water The sory eitight or ten bushels of wheat to be treated.
be sprinkled on with a watering can, the grain being frequently turned in a small pile,
or the wheat can be immersed in the pickle for a few minutes by being suspended in a sack in a tub con-
taining the liquid. Formalin, two ounces to three gallons of water, and one gollo of of the liquuld to each
bushel of grain, is found most satistactory to sprinkle bushel of grain, is sound most satisfactory to sprinkle
upon oots. Barrey may be treated the same way,
but with. stros. solution.

## South Brandon Instituto Meoting.

n Institute meeting was held under the auspices
the South Branton Agricultural Society in the Oddfellows' Hall, Wawanesa, on Friday afternoon, therch 13th. Owing to the bad conartion of the roads, but most of the prominent farmers of the district were present. ${ }^{\text {Socied, }}$, occupied the chair farring the meeting. The frrst speaker was Mr. S. J. Thompon, Prov, Vet.,
$\mathbf{w h o}$ spoke on ventilation of farm buildings and dis-
 masterly manner, showing that he fully understood the subjeets under consideration.
 Neepawa, who spoke on soil cu. Mir. Benson isect was highly apprectiated by his friends in the audience. Many new and usfral methods were intro-
duced and explained, especinlly as regrid duced and explained, especially as regards fortilization and pasturage. Mr. Benson is a good, practical farmer
and in his address it was a farmer talking to hid and ther his aeradress showing them how to succeed and how to avotd fairure. In the active discussions which fol-
lowed, many points were hroveht out which should lowed, many points were brought out which should be
of advantayg to those present At a meeting held some time
hold the annual exhbobition of the South Brandon Agri-
cultural Society on cultural Society on Thursdiy, July 1 Brh, 103, at
Wawanesa. As usual, special raillway connections and Wa wanesa. As usual, special raillway connections anh
reduced rates will prevail for the benefit of outstider.

## Hartney District Seeding.

The frrst report to reach this office of seeding hav-
ing begun came from the Hartney district where three ing begun came from the Hartney district, where ethree
sediers began drilling in the seed April 1st, on farm of sedars began
Clas. Thomas.

## Markets.

## Winnipeg Markets.

The livestock market continues quiet, the receipts
in general having been small for the last two weeks. Cattle.-No change in particular has taken place in the catter market of late. The supply for butcherning
is mostly coming from western points. The best

 and two-year-olds, $\$ 17$,
demand at $\$ 35$ to $\$ 50$.

Sheep.-Nothing being done.
Hogs,-A moder
Hogs.-A moderate supply of hogs are coming for-
Hard. and for the choice bacon cype, weighing from ward, and for the choice bacon cype, weighing from
160 to 250 punds. 5 Foc to bo. is being paid, while
tho best pound. Horses. -There has of hate been a very activo de-
mand for good work horses. Farmers and conmand for good work hires. Farmers and con
tractors have been strong bidders for the strong-boned,
mavular thellow musular follow it to go in heavy leather. The
principal supply has been coming from the east, but principal supply has been coming from the east, but
a few cars have arrived from the south. Good teams a fow cars have arrived from
dressed meats
The market for dressed meat remains about the same as when last reported.
Beef.-6. to to 7 tc. per pound.
Mutton.-There is prantically no mutton belng
fiered, but choice would sell at 10 cents per pound. of ered, but chote would sent at
and lamb 11 cents to 12 cents.
donts per pound dairy products.
Butter.-The receipts of butter have increased con-
siderably of late.
For choice creamery 23 c . per pound is being paid, with really good dairy rolls going av 21 c. to 22 c. and inferior grades as low as 10 c. per pound. poultry and eggs.
Poultry supplies are very light, but dressed chickens
would find a rendy sale at t11tc

 with the advent of milder weather, and prices have lowered to from 12c. to 1 10. per dozen for packed and 18c. 1020 c. Yor Guarain market.
Wheat.-Although the prices for wheat have fuctunted considerably since our last report, quotations re nuin much the same, No. 1 hard being quoted 74 c .
at at winnipeg and 76 bic. at Fort willam
Oats.-The market for oats has not advanced any extent since last report. No. 1 whito, in cars on
the track, is quoted at 32 c . per bushel, with No.

Barley.-The market
34 c . to 36 c . per bushel.
Spelt.-Spelt is is good demand at at 32e. per bushel.
Mrill Feed. - Bran is changing hands at $\$ 16$ per ton,
nd shorts at $\$ 18$, oat chop $\$ 21$, and barley at $\$ 16$
817 per ton.
Hay. - The supply of hay is quite equal to the doto 85.50 for loose.

## Montreal Markets.

Montreal, April 6.-About 1,300 head of butchers' for sale it the and 65 sheep amithir to-dey. The buthers wero out tn full torce, and trade was briske, with prices rather lower than on last weol's martote,
quality considered. There woro ilberol mopliee



 rangod from 525 to 855 each.
Cilves sold at from sa to
si nech.
Fat hogs are very plentiral, and sold at trom cto.
to 6 t . per II.,

|  | Passage. Wheat \& F Four. Bushels. $19,200,000$ 3,840,0 | cim. 3,8 0,000 6.8 80,000 |
| :---: | :---: | :---: |
| Total | 33,040 | 10,640 |
| st week |  |  |
| is wes | 46,320,000 |  |
| Samé weik, 1901 |  | 9,824,000 |
| The total, wheat in sighit to-day, consisting of the amount on plassage and the visible supply in Canade and the United states, is pared with bushels this week last year. and $90,994,000$ for the same week fir 1901. The amouit of corn in <br>  bushols last week, 15,388,000 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |


 $\$ 2.50$ to $\$ 5$; canners. 81.50 to $\$ 2.75$; bull, $\$ 3.50$ Hogs. - Receipts, 28.000 , markot slom and se .
 to choice heavy, $\$ 7.35$ to $\$ 7.50$; rough hatry, 87.30 20.87 .35 ; 1 light,
87.15 to 87.85.



Crippled Pigs and Vicions Stallion. 1. Purchased seven fat pigs, welghing ope hun-
dred pounds each. Next day lour bocame lame in dred pounds each. Next day four became lamo in right hind leg. and soon complete cripples, and cut of their feed, and they escapiped. 2. Stellion will not allow his feet to be handied we eannot shoo him. Some adriee wivin Ans-1. The pigs bocame crippled and died rom digestive trouble and want of exercise. The
treatment you adopted for the three that are atill alive was correct. In addition it would have been wois correct. In adaition it would hav
 getting the stainon to allo the tion of a twitch on his upper lip and another on
his ear, may suffice. If not, a rope atteched to

 not,
one foo
rope.


And ev'ry bird and ovrry tree,
And ev'ry opening fower. Proclaim His glorious viv. Hist resurroction power The folds are glad, the filds rejoice
with vernal yerdure sprad The little hills lift up their
And shout that Death is dead Easter Hymn

## A Western Shoep Story <br> [By a Farmer's wite, in Assinibooia,

When we left our city bome in the far east to start tarming in this country, It hed very dim visions of what it would be like on the vast prairie lands.
Born and raised on an old Ontario farm of average size, fenced with stake and-rider or zigzag rear, where we could ramble in spring to hunt the rear, where we could ramble in spring to hunt the Black raspberries on the edge, where there was a
pasture pasiture fuil of dear old stumps and brush heaps, from
the tope of which the largest and most luscious berries protraded, tempting us higher and farther mayyhp to
 to a seemingly bottomess abyss, I found things here very strange.
somewhere about suections was that when a child of somewhere about seven or eight years of age, my dear
father veed to take me in the sunny days of winter to a large old barnyard nearly enclosed with barns and sheds. On one side there was an old log. where he used to seat me to hold a dish of salt, while he opened
the door of the sheep-pen, 在ting out a flock of soft, woolly creatures, which came at first very cautiously, while $\mathbf{I}$ held my wreath for fear of frightening them. One old ewe would eye me cannily, then nibble a taste
of salt out of my pan. After that there would be of salt out of my pan. After that there would be
such a husting that $I$ had hard work to keep my seat and my dish, and, forgetting all need of caution, would screarr and taugh till almost exhausted with the fun. What was a farm without sheep? It could not be Thus I thought, and thus I planeed "the beet con-
cortcod schemes, ote." Reality-a ten-by-twelve shanty, standing a single lonely object, on a limitless ex-
Ranse bounded by a distant borizon, peopled only by panse bounded by a distant horizon, peopled only by
gophers jack-rabbits, coyotes and foxes. Was that a gophers, jack-rabbits, coyotes and foxes. Was that a "shaggy-ner " and a g good corral, and we had none of
these That part of my dream was shattered then. Time wore on. We arrived at the eleventh year of settlement of our prairic farm, with all the successes and failures of that period behind us. We had com-
fortable buildings for ourselves, cattle and horses, be forteo a fencod-In pasture. Now surely we could
siden ane only kind that were sides
ventire on some sheen. The only kind that were
available at that particular time were some nearly available at that particular time were some nearly
pure-bred Merinos. We bought four ewes, and brought pure-breal oudy home: they were an almost ceaseless
them proudly curiosity to our children, with their prety, curving
horns and funny $\quad$ tricks and manners."
They were not tame enough to stay in the pasture with the cows. and the so we tethered them, not to a stone, as our old ballad in the National Reader used to run, but to an fron screw stake. For a few days the poor things
 on the full run, ending with a jerk, which would throw
them down breathless, but. undaunted, they would
 It seemed as it they would break their poor necks, but
no damage was done, and they soon tecame used to the tether. Before the surmer was out we more than what fun they and the children had together ! bought some sheep shears, and my husband started to
renew his accuaintance with them, with the result of bringing almost as many wrinkkes on his face as there crop of wool was not very heavy, but we were proud of it, and after washing and picking, it was made into various cushions and other comborts. Then we had a lamb or two to kill, which was a nice change in our
meat diet. The next year, we bought some good meat diet. The next year. we toun fock, at the
Shrophire sheep and added them to our flok same time fencing a small pasture with five wires. as
we bad too many to tether. and we also built a nice sheep-pen or stable for them. Now. just here let me
whisper a caution into the ear or anyone who con-
 buying a hice tame old ewe which has been a special
favorite and pet. We dilt, to our sorrow. She would
not stay enywhere 'except as she wished herself. west would just put her quiet old head unfer the lowest
wire and shove hersei. under, and when we saw her her wire ond shove hersee under and started to drive
 giving us a knowing look, and before we reached the
spot where she had been im mischief, she would be back
enting her own pasture so innocently that no one eating her own pasture so innocently that no
woillu suspect she was the well-trained marauder. Did I hear. you say that sheep were stupid things ? Well, then, you have not had nuch experience wheir them, or eise vou have not taken mux h notice of of all
ways. We had a big dog which was very fond on ways. We had a big dog which was very to our or sheep
our domestro antmats, and the took kindly to our our domestric.anmals stry dog out of the field very
at onee, driving any stime
 things. When the yotht lambs came, he endeavored
to make friends with themen but their mothers drew the to make friends with them, but their mothers drew open
line there evene chasigig the poor brute into the open line there, even chasing the poor him down in a corner,
door of the kitchen and butting hion
till our lauggter turned to pity and we came to his tirl our laughter turned to pity and we came to
rescue. To return to our old ewe. She taught the other
sheep her trick jof slipping under the wire, so that shoep her trick jof sipping unuer the witer, ser theds
even though she was relegated to the butcher, even after het. Her sins were visited even to the third and fourth generations. so that, eventually, they proved their ruin. We were very much interasted in
all that pertained to sheep raising and keeping. We all that pertained to sheep raising and keeping. We
sent to Ontario and brought out the old spinning-wheel. sent to ontario aid brought ond swifts," boulsht a pair
with its companions, "reel and of cards, and were then equipped for business. We
visited a kimd neighbor who knew more than we did visited a kind neighbor who knew more than we did along that line, and learned to card
rolls, also to spin ft , and filt we had gained an accomplistment. It was a pleasure and welcome change from our other work to turn our solt, clean wool into fine
or conse yarn at our will, color it to our taste, and or coarse yarn at our will, color it to our taste, and
knit or crotchet it into many useful articles of clothing. knit or crotchet it into many useful articles of clothing.
which added much to our comfort. We improved and increased our flock, until our average shearing ran up to fourteen and two-thirds pounds a flecee, and the mutto
cass.
${ }_{\text {cass. }}^{\text {Ab }}$
About three years ago, our men declared themselves sheep pasture, and so we parted with our woolly pets, until the time comes, if it ever does, when we may have a Page wire fence or something of that sort enclosure. We miss the fresh mutton in summer, enclosure it soe dififult to procure fresh meat from a
when is
distance, and wis the meord distance, and we miss the good moctor for whiter Which 1 consider preferabe to beel or pork. And
still malatain my former opiniou that a fafu is instim malutain my former opinion an ane are easily complete without an feck and tendel, and are sure to be prontable in this
RESIDENT.
fountry. country.
Cottonwood, Assa

## Foods.

[By a Trained Nurse.
We use the word "taste" in the general sense of
finess. We say a woman has good taste when she fitness. We say a woman has good taste when she
can arrange a room to look attractive, when she can put on her gowns in a becoming fashion, or when she can choose suitable gifts for her friends. Let us not
forget that this artistic, gentel expression owes its forget that this artistic, genteel expression owes its
existence to that commonplace, or, as some would have us believe.,"1owest sense ". from which it is celled. The fact is, because we have not esteemed it more worthy, most of our number have unconsciously
cultivated our sense of taste in a wrong direction, so cultivated our sense of tasto tha wrong direction, sc hat we prefer 1
panies the gratifcation of apretite is one of the great. est driving forces of human life. We expend time and strength in procuring our daily bread, not only because
we dread the pangs of hunver We dread the pangs of hunger, but because of the
yest food. Because this pleasure is so great we ary apt to seek it as an end in itself." It is just here that we women have been failing our men folk. We
have been ainuing to give them food which would please thes
whether it than aiming to give them food which would cultivate a taste for the agreeable, natural navors of wholesome
foods.
Fortunatels, the demanal
for ruore wholeson e Toods. Fortunatelj, the demand for wore wholeson
food is increasing so greatly that we have a school of food values and the right proportions of the differeni constituents required to nourish the human body is within reach of all who desire it. Let us, who eal
every day of our lives, whro even prepare food for Others to eat, awaken to the fact that we have in our
power tastes which are growing in a right or a wrout powe tastes Let us realize a truth very important to
direction
most of us, that we can culticate an apentite most of us, that we can cultivate an appetite for
strength-produring foods in those for whom we labor as well as in ourselves. Ask any medical man who
has studied the subject and the will admitit that most people eat too much. Take for instance bread, and
he will tell you that to get an ordinary amount of nourishment out of it as it it suncrally preparacel at
present. one is obliged to takne abundance were all the compronemt vant of when
Many people "ost to keep up their strengsth," but
such eating merely clogs up) a system already sumi-
ciently burdened and doing its bost to keep more ial from being forced upon it. For such person: egain healthy appetites, one very good plan is without one meal a day, giving the olher t maspetiction returns. Not until the animal aystem redluced the surplus of old, unused material can one expect to have an accurate sense of what is really required to build up vigorous appetites. But a thor oughly normal appetite is a true guide-what else could
it be ? To gain the best results from food, we have to
hegin with the children in our homes; and begin by tcaching them to chew their food well, and to scorn taking 100 much. If, to make this worth
their while, we prepare food such as will nourish their while, we prepare food such as will nourish
them, while being none the less pleasing to the taste, we shall have the satisfaction of seeing our children grow up strong, well-formed and vigorous. We shall
find that, under such a regime, children will not often find that, under such a regime, children will not often
call for " a piece." and that their mental faculties will call for "a piece." and that their mental faculties wil
be more alert and roundly developed than those of be more alert and round neighbors. The unperverted taste of a child will in every case be found to guide Lo foods which are suitable for him. For instance, to
a child who craves too many sweets give a moderate supply of honey at his daily meals for a time, and watch how he improves. A lady of our acquaintance by adding a little lime water to his ordinary drink, effectually cured ber little son of eating, plaster, which
he used to detach whenever he could from the walls. he used to detach whenever he could from the walls.
The rule simply is to give a pure form of the substance his appetite calls for, thus surpplying the real reed which his taste points out. A child should never be urged to eat, but if he lacks appetite, lead him to exercise in the open air. Oxygen is, for the time tbe
ing, the food he really requires. It is almost criminal to force food into a child's stomach, where it must needs ferment and cause childish ailments or lay the foundation for dyspepsia in future years.
A noted authority says the required
A noted authority says the required proportions for the common wants of the animal system are about
nine of fat, twenty-two parts of muscle-forming substances and sixty-nine of starches, with sugar and mineral salts. Experiments have shown that a constant deficiency in any one of these cor.ponent parts results in a weakened ore a few suggestions for supplying these parts of food at an ordinary table Whole wheat contains all the properties required of food in nearly their correct proportions, besides tion. In the ordinary white bread that is ussd on most tables, we have removed the other constituents and left only the heat and force producing parts. We restore the muscle-producers by the use of fresh, lean meats, but these are neither available nor desirable all table deficient in mineral salts. Vegotables contain the latter food, but in the usual way of cooking vege tables-boiling and pouring off the water in which they have been boiled-these salts have been lost. Considering these things, it is not difficult for any
one, though not deeply versed in the science of food one, though not deeply versed in the science of food household will get the best of nourishment. First: By having whole-wheat tlour in constant use, and letting it gradually take the place of the common white
four. Second: By boiling vegetables in very little water. so as not to require to drain off the mineral salts; or, better still, by baking or steaming them. Thy a Hubbard squash cut in halves, and turned severed side down upon a baking dish, with sufficient done. scoop out from the shell and mash with butter in he usual way. A little variation of this sort in the ame line will spoil one's taste for the half-flavored egetables which are usually served, and this way of ooking is not in the least more difficult than the
ime-lonored methods which we have been following ith rather poor results. The use of a liberal supply of pure drinking water should also be encouraged between meals.
With thes
With these simple changes, and with moderation in he use of food, a certain class of ills alfecting our
vell-to-do farmers' fanilies would vanish. Their cause s simply an over-stupply of food-stuffs and a lack of sme which are needed, but which are within easy reach all. It is good taste which ca'ls for wh leeome foots.
S. Z. R. is good
Winnipeg.

## The Spring Awakening.

The little gray squirrel is rubbing his ey
For his sleep was long and sound.
For his sleep was long and sound,
And the woondchuck peeps at the glowing skies From his chanter undegground.
old bruin is shambling from out his den
With a dazed and stupid air,
And song-birds are fying back again
A message of spring to bear.
The butterfy crawls from its chrysalis,
And blossoms awake at the south wind's kis
And the rain-drop's gentle tap.
From their icy fetters the streamlets leap.
The woorlands with music ring.

In Wnys that We Know Not. sometimes think God lets our sorrows gather Till joy is hidden by, pain's heavy cloud, We need him when the heart and head are bowed sometimes thmik Fle lets friends fail and falter, The bleeding hearts we lay upon His altar, of healing and of solace may be sure. I sometimes think he strews our path with roses, And when we find that each one hides a thorn
He takes us by the hand and gently shows us
I sometimes thitik when he seems all unheeding.
Turning deal ears unto our wild request.
In silant pity His great heart is bleeding
Because to grant us it were not the best.
Not one will perish from His loving hands
Knowing our weakness and strength of passion
He pitios no-hecause He understands.
14. Hedderwick Prowne

## Be on the Watch.

A gentleman stopped suddenly before a sign that told him messenger boys were to
side. He hesitated, and then went in " How many boys have you in just now ?" he asked.

Six," was the reply : "" it's dull to-day."
"Then they're all here," said the gentleman, attention, wondering "what was up."" crutinizingly, "I suppose you know there is an The faces of the boys showed that
The laces or the boys showed that they were give him some points in regard to it. " Well, I'm looking for a boy to take a blind man to see it.
variety was the first response; then followed "Yariety of expressions, as: "A blind man!" see?" and "You can't guy us that way! Davis, and then, looking at one of the boys who had said nothing, he asked:

Well, what do you think of it ?"'
I think I could do it," was the reply. "Yes, I'm sure I could, sir."

Through my propose to make him see it ?' e could see it el eyes, sir. That's the only way
"You're the boy I'm after," said Mr. Davis, and he arranged for him to meet the blind man. bind man and his guide had a box to themselves, where they could disturb no one ; but Mr. Davis, from his seat in the audience, knew that the boy was telling what went on so that the blind man came interested in the messenger boy and his companion, who, though carrying on an animated onversation, seemed absorbed and excited over verything that went on. Indeed, no one apself.
The following day Mr. Davis again appeared among the messenger boys
with the manager, said :
ith the manager, said : Boys, there was a chance offered every one
of you yesterday-a chance for lifting yourselves ap in the world-but only one of you grasped it. My friend, the blind man, has felt for some time that he might get much pleasure out of life if he could find some voung eyes to do his seeing for gently. My stopping here yesterday was with the thought that possibly such a pair of eyes could be found here. It was an opportunity held
out to every one of you, but only one understood out to every one of you, but only one understood
and grasped it. For the rest of you it was a and grasped it. For the rest of you it was a the experiment-says he is sure 1 hit upon the ne boy in town who will suit him, and has ofered him a good position, with a fine salary.
Messenger boys are easy to get, but a boy who can make a blind man see is at a premium. And yet you might-well, you see, that boy, although he did not know it, was on the watch for a good pportunity, and when it came he knew how to pportunities from slipping away, boys; you mus opportunities from slipping away, boys: you must
on the watch for them."-[Canadian Church man.

## "A Safe Rofuge."

The mantle of Landseer has certainly fallen uppainter of this and inspired the brush of the yuage, the baffled little tormentors of the hunted pussy plainly acknowledge themselves beaten; refuge, the paws of the magnificent. creature pro refuge, ohe paws of the magnifcent creature proy not a wave of his tail or a movement of his jaws, deigns to acknowledge the presence of the
yapping and snarling little beasts which can do
her no further harm. Mr. Sperling has given
us atiother version of "Dignity and Impurlence. with the inference that the big bullies, which. ahas. exist as but too freguent blots upon cre ation, are more often to be found on two legs


My dear Guests, The whole creation round. Contentment wallt the sunny glade, and feels an inward blien pring o'er his mind, beyond the power of Kings o purchase.
to tire of him, but congregate failhfully after year, at the appointed time.
What joy to live in the country at this glad season! The person who has never rambled through the woods in search of the first wildflowers, and come home with hands well laden has missed one of the cardinal joys of life. Thie
flower gatherer shlould not be insatiable, however, but leave some blooms to fulfil their most important mission, viz., to propagate their kind, that those who follow in futiure years may share How they furaish.
the gala appearance of the the old schiool-dayss bright spring morning ! We teacher's desk every one enother in presenting her with the choicest woring fields the choicest eeling well repaid by the smile of appreciation with whith they were received. When we allow our thoughts to wander retrospectively to the right hours of childihood, we are apt to long reretiuly for thiose days

- When life was like a story, holding neither sob nor stgh,
In the old

Those golden moments camnot return, biut we might experience once aguin some of their oldouch with nature in her many moods. Some sutppose that the cares the years halve brought us have dulled our sense of enjoyment in these simhe pleastures, but I think, on the contrary, that in fuller measure the peace, the quifet rostrithen that comes from communing with nature. Occa-
sionally, then, when sunshine and bird-sing insionally, then, when sunshine and birld-song inagain, at least in fancy care to the winds, and ive ours, roaming o'er fields alnd through woodathds, noting the deoponting emeratd of the grats; he swelling of the buids, and the bursting into loom or spring housecleaning lags for a diey What ot as important to brush the cobwebs from your heart and spirits as to bank thiose that hide in the less-frequented apartments of your omer at any cost, and you shall be better. fitted former at any cost, and y
to accomplish the latter. Bffe C. Freeman.-You can procure the Perry
pletures from the Perry Plicture Co., Melden, Mass, at the rate of one-cent each for twenty-Ave or more, A wo-cent stamp will obtain a complete catalogue. I you order any before getting catalogue, it whl be owers, intmals, etc. I trust that prou may find some that will te helpful to you in your work. I shall bo glad to hear from you again.

THE HOSTESS:

Suxioking on the car $T^{\prime}$ exclatmed the digustea woman, as Dennis Flaherty, with his short-stemmed inpe, took the neat beside her.
oined pulte refoined Dennis, between long and doter mined pufts. "And av ye don't loike ut, go win
froont. Thene nates is resairved for smokers."
" If you were my husband, I'd give you pois " Would ye, now $P$ " (Puff, puif.) "O1 ththlk, ar y wor me woife "" nuff, puif-" Oi'd take ut."


## The Quiet Hour.

## "What Think Ye of Christ ?

"The etergles of all partles engaged in this conof Christ as the central point at which the the Person be determined."-Dorner.

We live in an age of religious discussion. One third believes nothing-but none of them are satisfied to leave the subject of religion undiscussed. The Bible is a battle-field where many a wordy war is waged; every book, every sen-
tence, is criticised and put to the proof. But all the time one great question, rmiging down the ages, is put individually to each of us-a question nay not be able to give an opinion about Egyp-
fian or Babylonian inscriptions, but let us see to it that the most important question of all is not left unanswered, "What think ye of Christ ?" Jesus aske that question of you anld of me, as He asked the Pharisees long ago; He still says' to
those who claim to be disciples, "Whom say ye thet I am P"
The answer to that question makes all the as after death. Either we are helpless and alone, with no one to answer our prayers, with no meaning in sorrow or pain; or else we are in the hanits of One who sits as a 'refiner and purifier of shver," If the Son of Good really becam ly by the marvellous indwwelling of

## God's presence and His very Self

then it is indeed a glorious thing to be alive
Let us not be content merely to exist-
Tis life whereof our nerves are scant,
"Tis life whereot our nerves are
How are we to get this life? Our Lord Himself aniswens, "Search the Scriptures, for in them
ye think ye have eternal life: and they are they ye think ye have eternal life: and they are they
whioh teotify of Me." Then he adds the sad truth: "And ye will not come to Me that ye might have life." The world is willing enough to talk about Jesus of Nazareth. Generation after generation is forced to admit, "I find in Him no fault at all." Every unprejudiced critic But that is not enough, for He only reveals Ifimself to disciples. He manifests Himself to those who are willing to obey God. "If any man will do His will, he shall know of the doctrine,
whether it be of God." What think ye of Christ, as the Goospels paint Him? It has often leeen pointed out that four principal characteristics distinguish Jessus of Nazareth from all other good
men. The first is that His preaching centers in men. The first is that His preaching centers in bread of life; I am the way, the truth, and the life." How often doos He make such declarations as these? Would they be accepted from any othe: lips? Bowen says: "All other ser-
vaints, of the Most High preach Him whom they serve. If Luther or Wesley had held themselves up as the standard round which men must rally, their rames would have been drowned in a sea of
dertsion and contempt." Jestus declares that He has power to give forgiveness, rest, peace, joy,
eternal life, to whomsoever: He will: more that thifs, He demands as His right the first love of all men, and their loyalty even unto death. What other man could puit forth such claims with any mains, that multitudes which no man can number have gladly and joyfully submitted to His authority. Secondily, He is not only innocent in the eyes of men, but also in His own eyes. The oblallenge, "Which of you convinceth me of sin?"' has never
been taken up. Neiver once does He plead for been taken up. Nelver once does He plead for forgiveness, or own that He has made even a
trifine mistake. with all other men, the nearel they climb to God the more they feel their own sinfulness. This Man declares Himself to be meek and lowly, yet there is no shadow of self-reproach or seli-a, Thirdly, this young Carpenter claims the right and the power to judge all men. Who but God
could weigh accurately the motives and actions of countless millions of souls, balancing hereditary influences andd the plower of training and circumstances, without dange
Fourthly, He never once places Himself on a level with other men in regard to His relation
with God. The disciples are tokd to say "our" Father, but the Master always says "My" Father, or "your" Father, and openly proclaimed Himself to be the Son of God. Another title
which marks this Man out as the representative which marks this Man out as the representative
of bumanity, one that He applies to Himself of humanity, one that He Rpplies to Himself more than fifty times in the Gospels, is "The Son
of Man." As Bowen says : "Here again He will
not join Himself with His disciples, will not stand foot to foot with them. One who studies the wonderful picture of Christ, as given in the Gospels, can hardly fail other man in all hise, Behold the Mail What other man in all history can compare with Him
for a moment? But we must do more than behold; our business is to copy the perfect Example set us, and then He will reveal Himself ever more and more plainly, for-

Where any seek. to know and do
Where any earth-born child, 'mid his will: Where any earth-born child, 'mid shadows dim,
Yearneth for closer intercourse with Him, And where one contrite spirit heaves its sigh, There, as of old, the Sevlour draweth nigh. The kingdom of thine heart to Him extend,
And thou shall have an advent without ond.".
HOPE.

## Che Children's Corner.



Kiss and be Friends.
Hal and Mabel had a tif One brititht Saturday. They were cross as cross could be
He was dumb and so wa He was it up till after tea-
Kept Both refused to play. Hal was tapping on the glass.
Longing to be friends Wishing that ho could deride To put down and conquer pride
Thinking. ." If I only tried, I could make amends.
Round the corner Mabel crept Then upon her tiptoes stoo Said, $\because$ Oh, Harry, let's be I would kise you if I could. Are you angry still ?"
Like a flash his lips were pressed To the window pane. a kiss Such a good chance for a $h$ Mabel surely will not miss. Saking up " is full of bliss COUSIN DOROTHY

## Found in the Snow.

An old clergyman was once riding to his hoine want to know where the Gulf of Riga (if you atlas). Suddenly the horse stopped and refused to step over some object in the path. The rider got down and found that a poor little baby, The good pastor took the child home, and she lived happily with him antil his housekeeper until was called, was sent away hy Catherine, as she was called, was sent away by the only father she days she heard that the Russians were bombarding Marienburg, and at once said she must go back to her dear father. The messenger who
had brought the news said by this time all the
people in the town must be deat or taken prison
"Then I will die with them, or be a prisoner," slaid Catherine, as sheigalloped off. Just outside Marienburg she was challenged by a young officer.
He was kind in his manner, but commanded the He was kind in his manner, but commaxided the who informed the poor girl that she was prisoner, and would be his servant. Catherine begged to be allowed to go to the battlefield that she might ind her fatherss body and have it turn and give hersolf up.
I "How do I know that you will not escape if I grant your request ?' said the General, ylanc-
ing at the young officer who had followed her into the temt.
"You have my word," she answered proudly, and the General allowed her to go. She sbourched in the darkness among the wounded and dead,
but without finding her father's body. Then the young officer appeared, carrying a lantern, and helped in the search. At last Catherine got very discouraged, and sat down, crying bitterly "Take my purse, and run away," said the cape.". Sir, I shall keep my word," she amswered and getting up, began to search again. At last was allowed to nurse him, promising to retiurn as a servant to the General when her fether re a servant

Now, if this had been a fairy tale, instead of a true story, you would expect to hear that the
kind young officer was a prince in disguise, kind young officer was a prince in disguise, and happily ever after. Well, you wouldn't be very far wrong, for he turned out to be the Czar or
Emperor of Russia. He was so charmed with Emperor of Russia. He was so charmed with
Catherine's courage, truthfulness and grateful af Catherine's courage, truthruiness and grateinl af tection for her adopted father, that he asked her
to marry him, and she became the Empress of Russia.
Perhaps you may never have the chance to distinguish yourself before the eyes of the workd, but if you do the best you can, you may really be as great as Catherine-as brave, truthful and kind.

## A Mother Hubbard cloak of biue And eyes that rivaled it in hue ; <br> A little ' . poke, rivaled it in hue

Two rosy cheeks and dimpled chin
Long golden ourls that caught the light, little childish smile so bright The little lass that walked with me
Through the long sermon, grave and still, My little neighbor used her will
To keep the tiny hands from playing.
To keep the tiny hands from playing,
To keep the childish thoughts from straying
At last, towards home our steps were bound, Whin the good lessons we have found,
Again the passers smiled to see
The little lass who walked with
And Mamie's tongue was now untied
She to my question thus replied,
What was the text the Rector read ?
COUSIN DOROTHY

Our Own.
If I had known in the morning The words unkind Would trouble my mind
I said when you went away,
had been more careful, darlin had been more careful, darling But we vex "our own
With look and tone
We might never take back again.
For though in the quiet evening
You may give me the kiss of peace Yet it might be
That never for me
The pain of the heart should cease. How many go forth in the morning And hearts have broken,
That sorrow can ne'er set right.
We have careful thoughts for the stranger
And smiles for the sometime guest
But oft for "our The bitter tone.
Though we love "our own" the best. h ! lips with the curve impatient. Ah ! brow with that look of scorn. Were the night too late To undo the work of morn. Margaret E. Sangster.

APRIL 6. 1903
THE FARMER'S ADVOCATE.

## Domostic Reonomy.

## all aboutt lamps.

A hausewife who has to use lamps a great deal, desires to know what will keep the wicks
from smoking. If the wick is soaked in vinegar trom
vere it is is put, in the lamtp, and thbroughly
difid it will dried, it will not smoke. The bowl of the lamp not in use the wick shouid be turred down low, The common kerosene lamp which is used in almost overy houebhold wiil give a bright, clear
light, and it will be a source of comfort to the light, and it will be a saurce of comfort to the
family if propprily Kept. Naver usio miferior bunners. They are cheaper at first, but they soon get oown, and do not give a good light. A cleap lamp gives no disagreeable odor when burning
Lamp chimneys are not liable to break Lamp chimneys are not liable to break upon
exposure to thanger of ternporature if they ared
put in a pan cold water and allowe to heat put in a pan or cold water and allowed to heat
gradually until the water is boiling hot. When you wish to clean the flues, wash them in suds
 free from lint. Polish with lid nownaper. Soe
that the fues all fit closely. Lamps shouid always be filled by daylight ; and always put in a

FURNISHING SMALL ROOMS.
In furnishing a small room two necessary
rints must be considered : First, that space is points must be considered : First, that space is
gained by malcing things as flat as possible gained by mainst the wall: end, second, that stifnoess is prevented then by introducing plants and break-
ing the lines by pulling out a table a little or turning a ohair
A low seat sixteen inches in height, running to some break of door or window, saves sipace and furniture, and ards a charming effect. It
stiould be upholstereid, and have only an occashioul be upholstereid, and have only an occa-
sionally rather small and carefuly selectedi pil vali, furnish without furniture, but care must be takicen that they are not extended in too continuous a straight line. A carpet of a solid color

How to Drink milk.
Sip milk slowly. Take four minutes at least
of faish a tumberful, and take only a good teatploonful at one sip. This is the ideal way in
whioh to drink milk. When milk finds its way into the stomach, it is instantly critidesid If your drink a large quantity at once it it curdilod into
one big mass, only on the outside of which the one big mass, only on the outsid
juices of the stomach can work.
If you drink it in little sips, eaoh sip is curdied up by itself, and the whole glassful finally finds itself in a loose lump, madle up of litcle
lumps, through, around apt among which the stomach's juices may percolate and dissolve the
whole speedily and simultaneously. Many people who like milk and know its value as a streenthgiver, think they cannot use it because it gives
them indigestion. Most of them could use it them indigestion. Most of them could use it
treely if they would drink it in the way described. To brightein a carpet.
Wiping a carpet with a cloth wrumg out in warm water and ammonia in which a tablespoonful of kerosene has been mi
ens the colors wondertully.
ordering seeds.
Of caurse you have begun to think about already made out your lists. I hope you have not neglected to include sweet peas. Of all our annuals these are my falvorites. They are so
sweet, so beautiful, so lovable : They make me think of butterfiises when I see them hovering over lright and cheerful that you feel like smiling at them as you would on a group of happy children.
Have so many of them that you can cut from them every day for yourselt and for your friends.
If you want to grow them well, you must sow if you want to grow them well, you must sow
hem very early-in April-and quite deep. It is a good plan to dig ari-and quitto dreench for. It it is
five or six five or six inches deep, and sow them in it, cover-
ing only an inch or two at furst. As the young! ing only an inch or two at first. As the young
plants start up, cover more and more until you plants start up, cover more and more, until you
have the earth levelled ahout them. In this Way you get the roots down in the soil where
they will not be likely to suffer if dry weather omes your way. The secret of success with
lemon verbena.
 very rapidly through the summer, and one leaf is so fragrant it will perfume the handkerchief if it
is put in the pocket. In the fall, take up careCully, put in a large pot or box, and place in the everal bats, place the dry leaves in, and put The perfume will last for months. FLOWERS FOR SPRING. FLOWERS FOR SPRING. stuay what it is best to plant and sow the com- ing higher and hipher. Boisterous laughter can be grown from seed aed perennials and bulbs shouted and he came back, revealed to them by a season? Last season instead of buying dahlia jeering and pointing to the sea, into which they bulbs, which are quite expensive, I phechinsed two had ridden. Morning dawned, but the parson and clerk were never found
again. Their horsee we re caught straying on the beach,

hole mead, and "paroon and oimer wer
packets of seed, one double and one single, somed middle of Mry ond had blooms the first of August, and such a variety of colors in the douin the single beautiful blotched and striped ones in the single 1 was richly repaid for all trouble.
Hollyhocks sown in March blossomed the last of Auguist. The Marguerite carnation, a most beautuful and fragraint flowor, bloomed in four months,
and now in February is stil blooming. Cosmos also richly repays a litule trouble in sowing early, producing boautiful flowers in September, and blooming profusely untill frost.

## Something about Devonshire.

Teignmouth folks are naturally proud of their long stretah of sandy beach, which extends from
the harbar-mouth to Hole Head, the big headland of red sandstone through which the train is a distance of over two miles, and can only be traversed on foot at low tide, although at very exceptionally low tides in summor the adventur-
ous may go still further, and scramble over the ous may go still further, and scramble over the
rocks at its base, the prinelpal of which are rocks at its base, theo princlpal of which about
keoown as "The Parson and Clerk," and about which there is of course a legendi, and one very much to the discredit of any "clothh," whether clerical or lay. The story goes that a vicar of
Dawlish and his clerk had been over to TelgnDewith and his clerk had $\begin{aligned} & \text { mouth collecting tithes over to Trign- }\end{aligned}$ to
toetther. The nithtt was wet and wila, and
their wav. They came to a house they lost their way. They came to a house lighted, and cordial Invitation to come in was shoutce ro them. From that moment they seomed bewitched,
'for they said words and sang soings unfit for

swuglerg lane, with lauket trers.
parish priest or layman." The story goes on to say that "with giddy heads and unsteady legs
they went to get their horses, declaring they nust have a guide, even if it were the devil himself;
whereat undertook to put them on their way to Dawlish. He led them on to the top of the road, and then
bade them go stralght on. This they essayed
rom the clifif, known to sut to what vagary or misfortume the old lady owed the honor or a matural mobument deponont parson's maiden aumt, tho, was thing in to youms him, was petrified with
 sceme of the tragic story I hare tried to lell you. Just before the entrance to the tunnel, you come
to some steep stone stops, rather slippery, but to some steep stone stops,
oo an archway under the railiway. whero most charing litte bywy cilled "Smue ilors' capmes and bloody ebcoonters betwen the copest suard and the defrauders of the revenue, the conat hiding places, and the lapte to the comveyrance of The smuggled goods to recetvers inland. If I am


 other thickly-growing shrubs to ensure cheir prit sile, but never to let any inquisitivo tourist is picture how romentic and beatitina must be thei
 ridige, se means of ccoess to the shore. A ruras one eleration to another. connecthe one property or that of two neighborgs sitiuated on elther side

 that is, $\mathbf{I}$ know, a futile wish, for truly an ing-
lishman shouse is his castle, and he takes every
 to you for the prosent, T should mantion that th
section of it ahown in the illustration is that of a part which is considerably more levef than the
rest. You have climbed up to thiat lovel as to temporary resting place. You have passed the
rumning brook of clear water by its side, and you have seen the leaves of the fern and the braction
and the tangle of syy and other wild plants through a fence which provented your filling you hands with them, andid now you have to make
your mind for you get to the Dawlish Romd, by whith you can yourter roturn to Telignouth, or it you aro so li-
elined, go on to Dawlish and return by tralin. But whether you elect to do the one or the other you are pretty sure to tolle a good long rost ip considerately placed in this as of many other
places around the neifgthornood, for the comfort placess arourn whe nelpectriens, for
kiss ?"" canny," exaclly put it in words," neturned ane
 1.1

## Amy's Birthilay Flowers.

 by milzabith m'cracken.irca. Dale's ingers trembled, and her lips trembled loo, as she stood betore her mifror, tyling her bonne ber boniet and pinged her vell.
It was almost a year since she had one day folded Amy's hands and slipped into them the last flowers that the ever would hold in, the world, but she had not yet grown accustomed to doing for herself all the
little things those once busy hands had done for her. During the time that was almost a year she had missed Amy with that loneliness with which a mother doies miss the daughter who goes away into the great,
otrange sillence just when she is old enougn to be her strange silence just when she is old enougn to be her
mother's friend as well as her child. Mrs. Dale missed all those things that had made up Amy's life, and, perhaps most, she missed the little things that Am had done for her, and that now she did for herself. Mr
Then, too, Amy had been her only daughter. Mr. Thien, too, Amy had been her only daughter. Mrs. away from homie all day. She had many intereste, and many duties, too, yet she was very lonely. She was much more lonely without Amy than even he As she stood before the mirror, tying her bonnet trings aid plnitng her velt, hor heart wes even heavier than it usually was. The next day would be Amy's birthday, and instead of preparing gitts rnd sur prises, Mro. Dale was about to go into the city to buy girl's grave. Amy had loved flowers, and the next in woild bo her first birthitay in that oother world that world in which mothers are never left lonely. went into the city on the trolley-car. It wa September, and it was afternoon. The car went past felte' beginining to tuirn brown, and between lines of trees beginnting to show among their green sometimes
red leat or a leaf of bright gold. The sun made the leaves all the brighter, and it gilded the brown fields, too, and made the trees cast long shadows. Amy had always been so glad that her birthday had allen on one of the mystic days that come just befor
Her mother thought of that, too. She thought it so inany things about which Amy had been glad She was a little less sad and lonely as she remembered
She thought and remembered all the some of ther. She thought and remembered all the ime that she was in the ctty, and walhing elong the crowde street to a florist's shop on one of its corners.
When she reached the forist's shop she stopped, and tood looking at the Aowwers in the shop whindows. white roses : Amy always loved them. Or violetsWhite roses: Amy always loved them. Or violets It is rather early for vilotets, though. or
might get lilies." She decided upon the roses. "They are sweeter and simpler
ike Amy," she sald to herself, gently.
She tarned a way from the windo fust
She tarned away from'the windows, and was just
bout to open the door of the florist's shop when she
saw coming up the street toward her one of $\mathrm{A} \mathrm{my}^{\prime} \mathrm{s}$ girl iriconds. She paused and waited. She had gway
been very friendly even a greater interest in them. She had especially iliked Eleanor Greer.
The girl was coming so rapidly up the street that she would have passed the toop shop witho ." My dear Eleanor, you certainly are in a hurry. she suld. Eleanor came to a sudden stop. "o Mrs.- Dale, dear Mrs. Dale, I am so glad to see you L" Shi took
Mra. Dalo's hand and held it for a moment. had loved Amy, and she, too, had been lonely without her. She, too, rempenbered that the next day would have been Amy's birthday. She said not a work, but she held Mrs. Dale's hand very closely, and looked into
her eyes; and Amy's mother understood thim unher eyes; and
"How are you, ny dear child $p^{\prime}$ was all thit she
said, for she did not yet speak very often of the said, for she did not yet speak very often of the daughter who hiad died.
" I am very well," Eleanor said, " and very busy, and I study rusic and practise music-just as . usual dear Mrs. Dale.". She smiled, just a little wiltully, Mrs. Dale thought
Prompted, by the thought, she assked gently. "And are you happy, Eleanor, dear ?" Eleanor hesitated for again and said. "Yes-usually I am. Just at present I'am sighing for the luxuries of life."
Mrs. Dale was relieved. She knew that eleano Mrs. Dale was relieved. she knew that enieanor
was too sensible to sigh very long for anything.
" What do you mean by the luxuries of life, edear ?" " What do
she asked.
". Now "Now really, Mrs. Dale !" Eleanor protested brightly: then, with more coor in her face, she Beethoven Soclety is going to give."
Mrs. Dale smiled in sympathy. "' They are certainly the greatest of luxuries to music lovers," she " And to music teachers who must spend their money for-other things." Eleanor added, with a laugh 'Please don't think $\mathrm{I}^{\prime} \mathrm{m}$ really unhappy beciause ron't afiord to go, Mra. Wate. Yin not: I'm just croaking a litble. It's such a help to any one to hea joy ! But I'm not unhappy about it; I'm glad can , do other things. - I don't feel a bit like croaking any more since $\mathrm{I}^{\prime}$ 've seen you I"'
"'You dear child li"' exclaîned Mrs. Dale, warmly She knew that most of the things that Eleanor did were done for other persons, and done willingly and bravely. "You dear child !" she repeated. Eleanor pressed her hand closely. "I must 日y to my next pupil, Mrs. Dale. May I come to see you
to-morrow-perhaps late in the afternoon ?" she to-morrow-
The quick tears caine into Amy's mother's eyes.
Yes, do !" she said. "Goorl-bye, my dear!"

Eleanor sped up the street to tier next pupil, and Mrs. Dale turned to enter the forist's shop and "Eleanor is a dear, good child," she thought, brave and unselfish ! it is a pity she can't go those concerts. They would give her such help, a ticket to thers. Amy would be so pleased ; she loved Eleanor. If to-morrow were not Amy's birthday, and I were not going to got the Aowers for her grave, I should be able to do that for Eleanor. She woul
let me, because I am Amy's mother I wonder-"
She stood quite still. A pleasant new possibil came into her mind. She turned away from the florist's ahop. In less than an hour she was going home, past the yellowing fields and sunset-lighted trees. She had no fiowers with her, for Amy.
In the last few moments of daylight she wrote Iittle note to Eleanor. The girl wept tears, hallhappy, half-sad, as she read:
My Dear Child,-To-morrow, as you know, is Amy's birthday. If Amy were here I should give her somedear ; and you are a girl like Amy, and her friend. Will you not take the gift for her, and go and listen to the glorious music that you so love and can so well make helpful to yourself and others? Come to see me soon, and believa me, Your warm friend,
Slipped into the note, Eleanor found a ticket to the Beethoven Society concerts. Amy's mother had
sent it very happily, but after it had gone she sat alone in the gathering twillght, wishing that she had just one fower to take on the next day to Amy's grave. ". Aruy would have liked me to do to
thought, " but stlll-on her first birthday-"
She did not finish the sentence, for just at that moment little Marjorie Williams, who lived next coor, came running in.
"O Mrs. Date," she cried, "I've been to the woode
with father, and I've brought you some flowers '"' Whe ran up to Mrs. Dale, and dropped into her arms a great mass of glowing goldenrod and blue autumn daisies. Then she kissed her and danced nway home.
Mrs. Dale gathered the goldenrod and daisies in her Mrs. Dale gathered the godenrod and daisis in her The next morning she took them and laid them on Amy's grave. Strangely, her heart felt lighter than it had felt since Amy died. -
She did not know why, but when Eleanor came, later in the day, and kissed her again and again, and chanked her with wet eyes for the gilt, she bogan to
know. Never after didd she cover Amy's grave with costly, quick-fading fiowers.
Instead, at Christmas and at Easter and on Amy's
irthday, she did some lovely kindness for some ather birthday, she did some lovely kindness for some other
girl for Amy's sake. Sometinnes it was small, somegirl for Amy's sake. but elweys it was something that times it was large; but anweys was and
made the girl happler and better, and consequently
toore valuable to the world.
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쓰페․․․․․․․

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ROSS a Ross, General Agents, WINNIPEG, MAN.

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New importation just arrived. 25
|sTAHLIONE Choice Breeding Excice Breeding,
Excellent Quality and
Extra Large Size. totra Large size.

O. SORBY, GUELPH, ONT.

## GOSSIP.

Spencer Bros., of Medicine Hat, recent-
y gave Mr. Taylor, of Thorndale, Ont., an order for thirty two-yeari-old bulls or their ranch. The stock were secured
it the counties of Western Ontario, and the counties of Western Ontario, and
now on their way to the range. now on their way to the range.
IIN is one whiteface in the bunch, but
mUIRTON FARM.
About seven miles south of Oak Lake station is situated Muirton Farm, the
home of Geo. Gordon, breeder of Shorthome of Geo. Gordon, breeder of Short-
horn cattle and Berkshire swine. The. present stuck buli, Admiral, bred by J. W. B. Watt, Salem, Ont., and sired by Royal Sailor (imp.), dam Kathleen, by Musketeer, is a long, deep bull, with a broad, thickly-fleshed back, good hind quarters, a fine head, strong neck, with quality throughout. The females are a large, useful lot, combining constitution
and good breeding qualities. Floss of and good breeding qualities. dam Floss of Ralphton, is extra strong in heartgirth, and a first-class breeder. Second Duchess of Oak Lake, sire Lancer (imp.),
dam Duchess of Beresford, by Sunrise, is a deep, straight cow, with a $\cdot$ very
Rose of Cedarhurst,

Jubilee Chief, dam Rose of Ralphton, by Lancer (imp.), is a straight, leep cow, with a good breeding record. Oak Lake Blossom, sire Chief of Roselend, dam Floss of Oak Lake, by Lancer
(imp.), is an extra good, thick cow, with (imp.), is an extra good, thick cow, with
great constitution and fine quality. She great constitution and fine quality. She von first at Oak Lake last fall, and has always taken highest honors wherever
shown. At foot, she has an extre fine shown. At foot, she has an extra ine
bull calf. Lou of Manitou, sire Chief of Roseland, dam Rosebud of Ralphton, by Lancer (imp.). is a well-made cow, with twin calves at foot. Blanche of Oak Lake, sire Prince Charlie, dam Floss of developed two-year-old, extra full back of shoulders, low-set, thickly-made and well-quartered. She has won several arsts. Another winner of firsts is the yearling. Rosebud of Oak Lake, sire Ad-
miral, dam Rose of Cedarhurst, by

Jubilee Chief. She is a stronte-tiatest
goood, deep heifer, The calves aro a good, deep heifer, The calves are a
very choice lot, thick, low-set and very thritty looking, One, a roan bull, by Clan McKay (imp.), and another, a red
bull, by Admiral, dam bull, by Admiral, dam Blossom, along
with a red heitr ty tilimal an
of Rose of Celtarhuet, deares to of Rose of Cetarhurst, deserve to to
spectally mentioned as oxtre trie to typo. spectally meniloned as extre true to type:
Recontly, Mr!. Gordon sold to 8. . English, of Edimonton, the three follot-
Ing, which have not been mentoned:
Tom of Oak Eake, Tom of Oak Lake, sire Admiral, dens.
Floss of Oak Lake, by Lancer (thip.). This yearling is a low-mot, latgo, give thy bull, with good head and mellt,
straight lines and lots of enaly, Sniver Duchess, a two-year-old, ath
Prince Charilie, dain 2nd Duehese of es Lake, by Lancer (imp.). Thite roas heiffer is a splendid deep animal, and a
frequent prizowinner. trequent prizewinner. Another is Les
2nd of Oak Lake, a rod yoarling got hy
Admiral, and out of Lou of Inallen. Admiral, and out of Lou of Buithen.
by Chitet of Roseland. Sho io a becked, deep, tholk helfer, whith atratiblt $\frac{\text { lines-a winner of firat at Onk Lalio }}{\text { lant fall. }}$ In Berkshires, MIr. Gordon has mato as
nite start. The herd at prosent fo not large, but the quality of the Indivituenty is right.
Recently, our repromentative callet $=$
Mossra. Jas. Tolton ${ }^{*}$ Son, 81
from Walkerton,
 recent purchase, the promleting youns
imported roan Shorthorin bult, fiten Homer, bought from Jrr, Jolip Ievas,
Markham, and bred by Sy Camptil,
Kinellar, Sod Kinellar, Scotland; slee Kinlegt at
Strathbogie 2nd $=0172=$ They hive also bought Lady Mary (timp.). wees
heifor, with very swoet head and athes heifor, with very sweet head ant staps.
bred by Atex, Brow, Watto timk, land; stre Bounding Willow measias
They have several imported cotis ef Thoy have several imported cole
good Scotch breoding, and othera of good familles as Mife Ramion, Fiver:
note, Strawberry, ete. almo, tive nos yearling bulk, in inctitrate ceathi for sale, bosides numerous calven
the grand butr. Het of Hope =ase from imported Kinella.
breeding of Shorthorns, Oxtord Down shoop ti kopt, of tid breaing owes and a moll/hrown tet rams, by tmported and twotve geath 1899-a thiok, woll-woolled min. marked, strong bone, and a sure at
of these, the rams, yoarling ate a some two-year-old divis

## TRADE NOTE.

A GOOD SEPARATOR NAME-A -1
 the centrifugal eream epparator. : usefuiness has been demenstrated to actual practice on thousanas ar finna whether the trade was selling creas oev-
and-out, sending tit to a butter fistorg. or making butter on the farm. It ente out of the milk more evism, and 0 better condition, than is pecilile theng other mey, 'end leenee the che mis siveet and frish for meeding. Io the firs. page announcemeint of the ensy-rem Empire separators appearing $=$ en bnelk cover of our lmmigration Mreters. March 20 th insue, than polito twan claimed as its prodominating leatprenil durability, utillty, slimplicity and mer omy in skimming. After a goed hens trial of a No. 2 size, Mr. B. W. Anem. of Coulee, Assa., writes that it to et in machine, which he never regretted evrchasing. He adds: "It more thas peld for Itself over what 1 med to ant from deep sotting." Mils. Clias. A. Clit dey, of Rutherford, roports that the Burpire separator proved all that mas cleimed for giving good matiliactionensy to run and enay, to elean. For entalogues and other information, denirea, write Mr. H. P. Hansen, managor, The Manitoba Cream Separator Co., 107 Lombard St., Winnipeg. The erenm season is at hand. No not delay getting
information about the fmpiro. information about the Emplio.
cossip. Goo. F. Brown, Brandon, wites an with my ventury in comiog to Markobe In mondquartorsilind to make Brandou my beadquarters and my Aurora, in. country and meeting the imost intallyent of (ontitiment hoptidy chinging the thio of shitre horses. Since coning fore hor eutumn, I hefo made extemisive einquiries dithont finding one instance of a gooa typleal shife, falling of giving the best frilividually and as breeders, are becosis Sng geheraily rocognized. I And that land and the low price at which in Eng und inforion stallient at which ansound cured tho importation of thought hat trge numberse working an injury to the Staed in Casade, as it has in the United breed, which is a prowjadire agelinst the theed, which is now betng overcome hy law could be enacted prohititing the If a of cinsound stallions, it would in a for youre result th great beneft. I demand vet.'s cortificate with every horse I thon, Ahere bolng it a many proteon blemtahes thit none but expects or profoestonals wound detect. ily first conhave a new lot in ready for aurin, 1 will notice some communications from thee. uriging government ounerehif of statHowisid by a liconse law, requiling veter:phery inspection, and by lectures given at various points throughout the Province by experts, on the line of those recently
given at Wifnipeg and Brandon.
weat of Portage la Prairio mes northnedose and Yorkton Prairition on the $\mathbf{M i n}$ R., Hee the home of A. E D. Stemert Shorthorm tredders, Thioir present stock bull in Gold Dasi, by Knucklo Duster (imp.): dam Duchere Jane 16th, by by Royal Barrington. Gold Dust is a atromy thieh buHf mith good Deelk and loftr and very stralght lines. Those grow a year. ten in number, are a Lady Topsmen, sire Topssian's Prite dam Morven A., by Kntght of Trides bourno, is an extra growthy, well-made yearling heifer. Binnie, got by village Knight of Westbourne, is an extra strongly-made three-yeax-old, bred by A Ni. Smith, Meple Lodge, Ont. Junitle Knight of Weastbourne and Corial L., by of A. W. Smith's breeding, stre Adonis dam Rose of Wa-Wa Dell 2nd, by Dor Pedro, are a conplo of good nseful cows. of foeding steers, and this winter practice bunch of 20 big fellows of winter had a type, which they fed three gallons per day of aimost pure barley chop and a hay of good quality that all the wild could eat was fed. The steers were in fine condition when a representative of this paper called some little time ago, and indications promised good returns The following is \& list sales : To Fd. Hyndman, of Gladstone, Man., two yearling heifers, Hester Roan, Fleming, both by Gold Dust and Marjory Fleming, both by Gold Dust. To Donald
Mc COaskin, Gladistone, Fhyydee, dam Mor van A., sire Sir Colin, by Village Hero.

## raADE NOTE

Sheerp-Sbearing machines. We desire to call attention to the advertisement of the Chicago Flexible
Shaft Co., which appears in column. This firm has become noted for the manufacture of hand and power sheep-shearing machines. At the International Show, held in Chicago. Decem-
ber last, they had a very creditable exber last, they had a very creditable ex-
hibit which attracted a good deal of attention. Shep. were shorn every of
or 20 ninutes. and the simplicity of heir machiness was remarkable. Those having occasion to use it hand or power

THE FARMER'S ADVOCATE
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USED Fuukten vencis lum Guee amsuls.










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There are very few clear ing operations in which Sunligh Soap cannot be used to advant. age. It makes the home brigh and clean.
IMPORTANT AUCTION SALE OII Messrs. D. C. Flote Ont., request us to ainounce that ing June 25th, at the Familton Stock-yart Sale Pavilion, Haunilton, Ont., they will hold an extensive auction sale of in of various agee-of the zoost approvel type, many of which will be suitable for show-yard material, having been selected from leading herds in Great Britaln with
a view to the requirements of the trite a view to the requirements of the trade of the country. Fuller announcoment

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Tobacce (Nicotine) is the best cure for scab and ticks known. In mo tronm is it so effective as in a powder of dark tobaceo mixed with sulphur. Why? Because the small particles of tobacco nemmin in the wool after dipping and prevent a return of scab or tiids Because the strength does not evaporate from it of scab or Iyyuid dip. It will keep without fermenting or losing it as from The cost is about the same as lime and sulphur losing its strengin and ready for the bath. No boiling and sulphur. It is all prepared be addled. The correat propertion of sulphur is already mi required and no sulphur has to 500 gallons tath scab stricngth.

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ELLIOTT, MARR \& CO., London, Canada.


A STROMG PLOW FOR HARD WORK.
The "Columbia" may be equipped with regular The service given a Gang Plow in the Northwest is sod. sovere, ind the great popularity of the "Columbia" is due to the fact that it is made strong throughout. Th That the "Columbia" is well fitted for heavy work is weiff. shown by its wonderful success in the Dakotas and Canada. No work in the matter of plowing can be so exact-
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ROCK ISLAND PLOW CO., Rock Island, \|llinois.
JOHN STEVENS, Cen'I Agent,
Winnipeg, Mantoba.

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Show Superiority
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The bowl is suepended on batl bearings with little or no friction; therefore little or no wear. TURNS EASY, SKIMS CLEAN
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All the leading merchants from the Atlantic to the Pacific sell Steele Briggs seeds. Thousands of people in Canada buy them every year and on't have any other, because they have PROVED THEM TO BE THE BEST this GREAT NORMFW Man if catalogue to every SEED BUYER in tond it intest card, we will send you one by return mail. You will
$\qquad$
IThar Variaitios io you Recommend for the Northuest? Is a question weanswer many times each day. The following varieties of Vegetable seeds will give splendid satisfaction under favorable con ditions. Full descriptions of each will be found in onr Catalogue.

## EOR THE GAREDEN

| PEAS. |
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BEANS-dwarf or bush.




CABBAGE.
BEET.
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CELERY
White Plame. Froollent varity; tedoder,

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LETTUCE.
Monparoln Cabbage. One of the beat in
oultivition ; colorer, beantiful lime

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FLOWER SEEDS



## 

STEELE, BRIGGS" "ROYAL GIANT" SUGAR BEET. Grows hesvy crops. Easily harvested. STEELP, BRGGG, FIMP HOVED SHORT WHITE" CARROT. The surest cropper, the heaviest
yielder, the handsomest shaped, easiest harveested, the most tniform The surest cropper, the heaviest
the very best ield carrot in existonces Price, 1b, 50c. poostpaid, 55 C . STEELE BRIGGS" "PRIZE MAMMOTH" or "GIANT LONG RED" MANGEL. Price, ib., SWEDE TURNIP, THE STEELE, BRIGGS CO.'S SELECTED PURPLE TOP. There is no other sort which we have ever grown that yields a more uniform size and handsome crop, or that
will produce a greater weight. Price, per lib., 2LC.; postpaid, 3 oc. AWNLESS BROME GRASS-(Bromun ibermin) A Grass for the stock Retuer

 WESTERRN RYE GRASS- (Agropyrue thangemor oon




 THE STEELE, BRIRGS SEED CO, WINNIPEG, MIMTED. MANITOBA.


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ELECTRIC BITtERY, gge


WORTH \$5.00 satoter in yry


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## Churn, Churn!

 <br><br>Mindsor Salt.<br>Best grocers sell it.

 WOODSTOCK WIND-MOTOR CO., $\begin{aligned} & \text { We refer intending purhasers of stock } \\ & \text { to Mr. Mclvor's ad., which will be found }\end{aligned}$ WOODSTOOK. ONT.

## TRADE NOTES

BLACKLEG.-The season is approaching when blackleg is likely to break out among young stock, and therefore the question arises as to the best way to avoid loss from thig troublesome disoase.
The Pasterr Vancind The Pasterr vacichino Co... whose omices
are located in New York Chiceno. are located in New York, Chicago, Ft.
Worth and San Franciso., manufacture
 avacine known as ". Blactlegine,"
which is claimed to be an absolute proe ventive against blackleg. It costs but yittle per animal, and the instruments tor using it may be had tor the mall
sem or 50 cents. having need of such win adrise those having ned of such a proparation to
give
Blacklegine
hffe insurance. - Lite insurance





 | to the intending investor. The Mutuaa |
| :--- |
| Life of Canada is one of the oldest ol | Canadian lite assurance companiese, being now in its thiry-fourth year. To show

that its noted thatents are not idhe, it may be
not bew business of 1902
amounted to

 HORR A




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 PROVINCIAL AGENTS
 Hixamax Mub
J. FLEURY'S SOIIS, Aluror, Onlarib, Ganda.
 so suitable fing this nutritious fodder, so suit abie for westerm conditions, into prominenew with the leading stockmen
of this vast land and thus bocoming so
so
 horn catlle, whith has heedped to whiden
the circle of his acquaintances. His the circle of his acquaintances. His
herd at present are in fine condition
then herd at present are in fine condition,
the matrons being large of size, with splendid constitution. The young stock are in fine shape, having wintered well. A number of young bulls- thick, deep masculinity - are ready for service. Strathcona $=35421=$, sired bervice.
Solden Measure Golden Measure, noted for his high-
priced progeny, is the present stock bull priced progeny, is the present stock bull.
Golden Measure is leaving splendid Golden Measure is leaving splendid
stock.
He was sired by Golden Count,
bred by Wm. Duthie, and of the famous bred by Wm. Duthie, and of the famous
Missie family. The dam of Strathcona
is Donside Beauty (immp.) by Princenal is Donside Beauty (imp.), by Prince of
Fortune; grandam Donside Lass, by Fortune: grandam Donside Lass, by
Gravesend.
The oldest matron of the barnyard is Lady Bosshill, sire Pachelor,
dam Eva, by Arnold. One of her daughters, Snowflake, sire Cairngorm, is of the same low-set, large, smooth types
Another choice one is Jenny Lind Another choice one is Jenny Lind
$=\mathbf{3 0 4 4 9}$, sire Hickory Johnston, dam Minx, by Arnold. l'ride of Roselea, sire
Victor, dam Jenny Lind, is also one of Victor, dam Jenny Lind, is also one of
great scale and true Scotch type great scale and true Scotch type. About
45 pure-bred Shorthorns are kept. A number oi fine Yorkshire pigs are at
home at Roselea Farm. A few of them are of Greenway's choicest breeding. At present, sir. Hicivor has no western rye
grass seed for sale. having disposed of grass seed for sale. having disposed of
it all to the Steele, Briggs Seed Co. it all to the Steele, Rriggs Seed Co.
We refer intending pur-hasers of stock amounted to $\$ 4,527,000$. The company
is determined to keep its business on solid basis, and have accordingly placed their new business on a $3 \%$ basis of

## cossip.

 RUSELEA FARM.North-west of Virden, about one and a half miles, is situated the farm of readecs as the spot where Western our
 Ladies' or Gontlomen's sla0), will be tor flillow to overyone








The Chatham Incubator

 WM. ATWELL, Brand Io II. curpell firitils ilit Cun, Cuthen, ith



 8. Wh Wh Lscim give por II IT's AN ACTUAL FACT

 4-
 Tiveretㅡㄹ
 Catiom: Nivintite, ion EGGS FOR HATCHING


 128 River Avenue, WINNIPEG

CI

 Poultry and Eggs for Sale - R Rocomen mad sin
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Ėe has left his bide in wood hatap C" chas left hie hide in good handa Send for ou
ciroular in reference to custom tanning. We weid CARRUTHERS A CO.

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The KEMP MANURE SPPEADER CO., Limited STRATFORD, ONT
e0ssIP Jas. Gorrell \& Sons, Pilot Mound, have made the ollowing purchases from
Purvis Thomson, Pilot Mound, Man. Caithness Duke $=15519=$ roan, by
Caithness $=22063=$. dam Gay Mysie Caithness $=22065=$, dam Gay Mysie
$=29099$, and Miminie May $=30966=$.
 Lass, by side, by Caithness $=220 e \mathrm{e}=$ his grand old stock bull. Messrs. Giorr
rell d Sons have, made some succesarul nell \& Sons have made some successfu
Soles during the winter, and they now
contemmlo contemplate goins into breeding on larger scale.
 berd of Irr. Wm. Bell, Alnwick, Northumberland. England, on March 18 th, the
54 head sold brought an average of \$350. The 15 bulls, all but one bred by Mr. Bell, an extra good lot, made an average of 8635 . The roan two-year trated in the "Advocate," bred by Mr Selo. winner of second at the Royal Highest price of tho day, $\$ 2,626$, being bought by Mr. Mclennan for South
Amerk. Two other bulls amerka. Th
giveneas each.
Walter James \& Sons, Rosser, Man. Walter James \& Sons, Rosser. Man.
report the following sales: $:$ Roan buil calt, Livingstone -45933-. by Lord stanley $25 \mathrm{th}-2947-$ out of Lena
Arkwright $-23822-$. Arkwright -23822-, to Robert Lefley,
of Rosser. Man
 $-36905-$ - out of Crimson of Highield -2684-, to Eviderrims Mcki or, of Balmoral, Man. Yearling red buil, Mana-
wan -4593, , by Lord Stanley
25 th ,

 cow. Ladysmith -40211-. by Rosser
L.ad -23980-, out of Mahtab $-25+6+-$

 Loyalty (imp.) - $10437 \mathrm{~F}-$, out of wall fower Witch, Vol. XIX... $\begin{aligned} & \text { old } \\ & \text { Ballour, Mcadow Lea. Man. }\end{aligned}$
official records of holsteinFriesinan cows
February 10th to March 14th, 1903, Firen melow
years 2 Vmonths 24 davs Record 10 twentreight days: : days after calving.
 92.327 libs... equivalent to to 115 buter-fat, 1 l. 6.5
ozs. butter so 80 per cent. ors. butter 80 per cent. fat, or 107 ibs.
11.4 ozs. 85.7 per cent. tat. Rest consecutive days: Days after calving, 14: milk. 694.3 lbs. : butterfat,

 9.5 ors. 85.7 per cent. fat. Owner, Mch
Adam \& Van Heyne. Deansboro, N Y Myay Hartog Pauline. Deansboro N K. K . 45124 , age
Hears 11 month 4 years 11 months 8 days. Record to
thirty days: Days after calving 14


 nilk, 6.ss - lbs.: butter-lat 23.417
 per cent. fat. Owner, H. D. Roe.
Augusta, N. J. Armyn's An 4 th 50398 , age 4 years

 per cent, far. Best seven conseutive
luys: Days after calving. 20 : 585.6 lbs : b butter-tat equivalent butter 80 per cent fat.
los. 4. A ozs. or 20 the 85.7 per cent. tat. Owner. H. i) Rue Lady Oak Fern 44126, aye s years monthe \& derns Record
diays:
davs alter calind days:
1.854, Days atter calling
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lbs
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Cholee jours Shortion Bulls for sh

 SHORTHORNS FOR SAL
 A © D STEWAET, WKBTBOVIIT Bowness wn "Shorthonis

 W. benesfont, Gatgar, ilit Late samson a Macmaoutem,

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 Nonsuch Stoch Fari-Shorthons for Silo

W. E. PAULL. KILLANNEY, man LAKE VIEW STOGK FARM. Shorthorns FOR SALFE
If Iam offring my whole herd for calo ho tix




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Bulls and Females. Reds and roans, all ages, grood prices buyers can make money on. We are not going out of
business, but going to do all husiness, but going to do all
the business we can. Write us the business we can. Write us
Mr all oo us if interested.
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roul if advised in time von if advised in time motto.
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D. HYSOP \& SON, BOX 103. KILLARNEY. LANDAZAR STOCK FARM

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SCOTTISI SHOBTHOOHIS.

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 THORNDALE STOCK FARM 138 shorthorne FARM is Rod.
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 JOHN S. ROBSON. MANITOU. MAN. SHOITHORNU AND CLYDES FOR SALF.
 got by (imp.) Mokikinon, and a fow maree. Man, Man. A. \& OMADBOURN, Ralphton, Man. Lak

 and two bull oflvesuder sir Colie. R. Molennan, Holmfield. Oak Grove Farm. S. SHORTHORIS
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## THE FARMER'S ADVOCATE.

 Lady Bell, sire Manor Hero (imp.), damHighclere 20 th Highclere 20 th (mp.)
A PROSPECT FARM
Prairie will be found the home of John Wishart, breeder of Clydesdales and
Hackneys. At the Winnipeg Industrial and other leading fairs, both breeds have brouyht away, in various classes, the
highest honors, which of itself testifies to the breeding and individual merit of the class of stock raised at Prospect
Farm. In the brood mare and progeny class at Winnipeg last year, Lady Gran ite, with her two-year-old daughter,
Wonderful Girl, and sucking colt. Prince Wonderful Girl, and sucking colt, Prince
Prospect. won first. Lady Granite is a large. smooth mare, with good clean limbs, sired by Granite City, dan: Lady
Slack, a winner of tirsts several times Slack, a winner of tirsts several times
at Winnipeg. Prince Prospect won first
in foal clucs in foal class last year at Winnipeg. Brandon and Portage la Prairie. He is
a well-developed colt. with wood. Nea a well-developed colt, by Prince of Eden Grove. Lady Coleridge. sired by Lor
Coleridee, dam Lady Slack Coleringe, dam Lady Slack, won, along
with Lady Granite, first as draft team
at winniper Wonderful (Girl is a at Winnipeg. Wonderful (birl is a large.
well-muscled filly, with a splendid neck well-muscled filly, with a splendid neck
and good quality throughout. She won and good quality throughout. She won
third nt Winntpeg and second at Bran-
don form last year. Lady St. Gatien, sire three-year-old of fine quality. She has Maud (iranite. sired by Granite City dam Maud Slack. is anothar of blocky
make, with good bone and lots of Clyde make, with good bone and lots of Clyde
character. The colts, three in numbir. character. The colts, three in numbir.
are a neat. growthy lot. sired by Prince
of Young. sire Fire Fly, deservess, mention.
not onlv for her madividual guality, bur not only for her mdividual quality, but
also for her winning progeny. A vearMlso for hier winning progeny, A vear-
ling filly out of her, by Clairman. won
second at Winnipeg and first at Brandon


 thicknesty strong, and this depth and a broad, thick--lleshed back, straight has hines and deep. plump hind quarters. 18 cwt. She is a low-set, smooth in
18 , dividual, a winner of several prizes, Gatie 5th, bred by Watts, of Salem, ont., another good one, has stood first
in her class at Winnipeg. Brandon in her
iortage.
Wild $M$
Wild Monchief, a Stunda-d-jred stallion, is also owned by Mr. Brown. This road and carriage horses in his the best A colt of his get won first at Portage mast year. The or' "trat, took second Went to Winnipeg anf there pot first, Monchief
pete.
In Berk In Berkshires, about fifty are kept, many of then prizewinners, and some
recently brought out from Ontario. Tippecance 2 nd, winner of first as yearling at Winnipeg's last fair, is the present a great Manitobas show boar, and this young boar's grandam is the noted Bonnie Queen, also a great show winner. One
of the present sows is Cora Bella, winner of first at Toronto, London, Guelph Fat Stock Show, also sweepstakes at Winnipeg. She has a iarge litter of
thrifty youngsters, lately weaned. Dothrifty youngsters, lately weaned. DD-
minion Lass, bred by F. A. Cox, Brantiord, is also a sweers'a'e Winni or winner. An extra kood breeding sow is North-east of Portage la Irairie, some
bieven Plains, stands the home of F. W. Brown, President of Manitoba Sheep and Swith
Breeders' Association Breeders Association. Mr. Rrown is and swine-Cotswolds and Berkshires-
but also keeps a herd of 45 Serorthorn The young stock are in good shape, the lot, sired by Spicy Robin. The yearling heilers, nine in number, are a low-set shoiv winners, and sired by such bulls (imp.). Spicy Robin (imp.). MacIntosh Four young bulls of good sine adhurat iormation, sired by Spicy Robin and Lyndhurst; complete the list of the younger members of the herd. Spicy Robin is the present stork bull. He is





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CLYDESDALE STALLION, EABTLAND PRIOE (2822)



## Parcheron Stallions

 FOR SALE.



H. F. Page, Mission City, B. C. John wISHART'S CLYDES AND HACKMEYS can be see
minnerat
in
in
 - Goserp. MIr. J. C. Pope, Regina, has recently imported from Ontario, a beautiful Ayrshire cow, Heather Belle 9381, and from
Quebec, Castlebin Quebec, Castlebilt, an Ayrshire bull of
considerable good breeding and individconsiderabl
nal merit.
Mr. Jas. Walsham, of Portage la Prairie, is well known as an exhibitor of ehotee dairy bulls. At present, in Jerseys, he owns Brampton Gold Prince. bred. by Bull \& Sons, of Brampton, and Sires by Bramplon's Monarch - (imp.), dam Princess of Brampton. This bull won the diploma at Ottawa, as a calf,
in 1901 . The followipg year, at Winnipeeg, he also won the diploma. He is ambost lantilese in conformation, is a
splendid hander, strong in constitution and beautifully marked. Another Jersey boll of note is Belvedere Signal, sire Signal of Belvedere, dam Setemella 2 nd This boll was bred by Mrs. Jones, of Brockvile. He is a large, smooth ani-
mat, with good constitution and a getter of splendid millers. In Ayrshires, Duke sire Hob Brown of (imp. in damporhill, grand dam Nor val Rose, by Pride of Peel, is the orly
one kept. This young bull won six forsts one kept. This young bull won six firsts as a calk the re a splendid specimen of
the Ayrshire breed.
highland stock farm. At Clyde, Minn., near Utica and St. harles, io the Chicago and N. W. Rail-
way, is located HIghland Stock Farm, where Clydestale horsee and AberdeenAngus cattle are bred, under the proprietorship of Joben R. Campbell. Sumbo of Cityside, sire Paris 3rd, Canada's renowned champion; dam Bar-
bara B., by Busuto, was one of the Iormer stock bulls. Was. . Camp of the is
very careful when selecting sires sas herdvery careful when selecting sires as herd-
headers, choosing only those tikely to
hen headers, ch/
lamprove his
often when appeared in the show-ring, but managed t
the first Abecree a fair share. Busuto. the frrst Aberdeen-Angus bull owned by
Mr Campeell in the States, won in
Chicago in in in Chicago, in '82, $\begin{aligned} & \text { grand sweepstakes over } \\ & \text { ail beel breeds. } \\ & \text { He weighed } 2.600 \\ & \text { The }\end{aligned}$ Ibs The present stock bul is Beauty's
Felipser 26474, sire hin Fclipser 26.474 , sire Moon Eclipser, a,
winner at many State farrs, dam Wellingwhnner at many State fairs, dam Welling-
tor's Beauty. also a prisenianer and a
producer of winery her bill
 others of like merit are kept. Which
gives the Highland herd a presticm that gives the Highland herra a prestige that
counts.
inspection iorrespondence solicited and inspection invited.



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S Sirires, Percherernes, Sutfolt ant Incthoy STALLIONS
 §OUR PRICES Arither for nindilild make it wort ysur while to commanicate with um

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I have located permaneently at Brandon, and $I$ have brought trom my Aurore, imtinols, watablen
very ohoice ectection of SHIRE AND PERCHERON STALLIONS

 Indiridual buyers or syndioatee aill ene money by corresponding with me before paying the fancy
prices at which interior otallions are being sold by pedilers T. BOWNESS STOCK FARM The proprietor of Bowness Stock Farm,
the Hon. W. Beresiord. Calgary. Alta. has recently issued a neat, concise catalogue describing the extent and location
of his farm, and the pedigrees of a few of his farn, and the pedigrees of a few
of his well-known Shorthorn herd. Bow-
ness farm lies in the valley of the Bow ness farm lies in the valley of the Bow
River, having a river frontage of more
than thice miles, and comprising 2.5000 Than three miles, and comprising 2.500
acres of excellent farming and grazing land
There is contiderable timber onthe There is considerable tinter on the banks
of the river, spruce, poplar and cotton-
wood prefominatink, so that the hest of
shelter is afforded the herd. Numerous
clear springs flow from the hills near ty. clear springs flow from the hills near tw,
and grass is in abundance. so that the
spmet is oxcrectingly favorable for raising
catle of prime quality on an extencine
 feared this herd at present numbers
more than 225, the whole of which, er.
repting youn, chll whe restered
in the Dominion Hertloook, and also a

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GEO. E. BROWN, BRANDON, MAN.

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High-Class Stallions.
The new importation for the coming
se sson comprises many winnera
Mares and Fillies Almass for Sale.
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GOSSIP.
Mrr. I. A. Bradley, of Portage Plains, has a choice lot of Taunworths, headed by Portage King and General Buller, winner of first every time shown at Winnipeg. General Buller was bred by Norman Blain, of St. George, Ont., and
sired by Advance, dam Minnie F., by King Gearge. He is a large, smooth pig, very even. Portage King was bred
by Colwill Bros., Newcastle, Ont.; sire by Col wil Bros., Neewcastle, Ont, ; sire
Nappoleon, dam Newcastle Maid of Honor,
also of Colwill Rros. asoug Coiwill Bros.' breeding. This.
young boar has ample size, is very smooth, and promises to make a vorod,
useral stock boar. Grace Darling, bred aseful slock boar., Grace Darling. bred
by J. Do. McGer regor, Brandon, and sirred by Red Ben, is a smooth sow of soplendid
 large piggie, of extraber Jitu 4th, is a
That. conformation quality and good 26 Tamworths, all. in thrist Bradley has She young stock being sired by Gerition,
Buller. Those desiring to purchas should look for ad., which apuears in his issue, and correspond with or visit
Hr. Bratley.

JOHN GARDHOUSE, hiGhFIELD P. O., ONT., Prooder of shum its suonerionvs and


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 Stanlions and mares all ages. homebrod an
imporicod, always for sale. Uver 50 to co coose
toon - MORRIS \& WELLIMGTON, Fontilill P. O., Welland County, Ont. DR. PAGE'S Six miles north of Elkhorn will be
found the home of Geo. Allison, brewder of Shorthorn cattle and Alitisenter shendep
Although this herd is not so targe as Atthough this herd is not so large as
some, in numbers, it ranks high in oual some, in numbers, it ranks high in qual-
ity. The present stock bull is Rovalist, nt.: : sire Royal Prince (imm Rose Hope 15yth (imp.), by Musgrave Royalist has a fine (imp.). by Musgrave.
houlders. shoulders, an extra wide, deepo-neshed
back and sillendit loin. 1 Prairie Flower, hack and sillemtidid loin. Prairiep-Rleshed
one of the matrons of this herd, was
bred by the one of the matrons of this herd, was
bred by 1 \& $W$. Russell. hisicher ,

 prizewinner. She ano unbeaten loce in constitu
tional ivor, is of the low-set. Slocky
type and very 4th, ano very smoth. Royal Princess
the same susell's breeding, by 3rd, by Stanley, is also a prizewininer

ENGLISH SPAYIN CHRE
$\qquad$

## Thorncliffe Stock Farm

loyal ind quarters and well-sprung ribs. Chief dauchess, another of Jubilee luromy limiterlet Velvet, is an extra deess

 tirnm nnul straight lines. At call, helevert

 Seans Onum Now ower one hundred are keph. a then bunch of four were brought up

ROBERT DAVIES
Clydesdales, Hackneys, Clydesdales, Hackneys,
Jersey and Ayrshire Cattle, Correspondence solicited. Visitors always THORNCLIFFE, J. . GARDHOUSE, WESTON P. ONT ONT MHINR AND OLYDE HORSES, BMORT-




BOOK REVIEW.
 bactera
BACTERIA IN MILK.-Dairymen all over the country will be pleased to learn that H. W. Conn, Ph. D., the colebrated bacteriologist, has published a sook on
bacteria in milk bacteria in mill. Atter carerully examining a copy recelved from the publishers, P. Blackiston's Sons \& Co. me have no bestancy in recommending the new book to every person who is inter. ested in handling milk in any way. One or two chapters are perhaps somewhat technical, but the greater part of the work is devoted to the practical discus-
sion of the ralation products, and the part they play in the causation of disease. The book contains some 300 pages, is strongly bound,
clearly printed and profusely illustrated. Ordering through this office, it may be oriering through
secured for $\$ 1.25$.



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 IMPORTED LAST BEPTEMBER The on-to-dete Arefter, big and medtum weight, dark colors, short, straight back, no hair on legs, immense rumps, pony-built bodz. Not a shaggy lump of fat. A Klondyke in
your stable. Honest yaine for your stabie. Hot shaggy lump of fat A Klondyke in
better, come to
BARON DE CHAMPLOUIS, IMPORTER
$\square$ ROBERT BEITH, sownalvile, out., mporties and bratider or Clytostala Hackiney Horses
Is oftering for Bale a number
of onoloely-bred Clydesdales

 the not hid horsoes, Prinoen of
Allion King of thin Roos
Lord Btewart and The Prior.

JOHN BRIGHT, MYRTLE, ONTARIO, Clydesdales and Shorthorns,

Is now offering for sale 8 stallions, sired by uch horses as Prince Patrick (imp.) Erakine's Pride (imp.), Sir Erskine (imp.), Royal Laurnee (tmpo). Atso a number of mares and fillies. horthares of all ages, of such families as iss Ramsden, Clementina, Strawberry, Orimson Flower, Village Girl, Stamford, Rachel,
etc. Myrtle Station, G. T. R. and O. P. R. Farm connected by long-distance telephone.
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Tolokraph. Brooklila.


International Importing Barn, Sarnia, Ontario,

1
Clydestale and Shira Stallions, and Spanish Jacks. His yurd inpornt


 chation mon pipar

## ecesip.

L. J. C. Bull, late of the firm of B. B ull \& Sons, noted breeders of Jersey cattle, Brampton, Ont., has taken up his residence in the Arcole District, Asve. Whersey cattle and Yorkshire hogs. A Jersey cattie and Yorkshire hogs. A shipment of stock was recently landed from Ontario in good shap

Mr. Thos. Dale, of Portage Plains, has a very nice herd of fifteen Shorthorns His stock bull, Young Lyydhurst, sire hacked animal with faity a strong head, full quarters, and a good handler Mr. Dele quar hers, and a good hander sows and so 75 pure-bred berksire sows, and over 75 pure-bred barred Rock
fowls.

Donald
breeder of Acfiarlane, of ${ }^{*}$ Oak Lake, very choice herd, numbering 15 cows several yearling heifers, 5 growthy calves, 2 young bulls, and the stock bull, Barney, a low-set, deep, thick, well-fleshed
fellow, rising three years. This herd is one that any beef type fancier would admire. The standard - of unformity, depth, constitution and general handling
qualities possessed by this herd is very depth,
qualitit
high.

## igh.

About ten miles north of Portage la Prairie is located the farm of Carruth \&
Brown. Clydeodele their three prizewinning fillies present, splendid form. Lady Pandora, winner of first in her two-year-old form at Winnipeg last year, has developed wonder-
fully. Chantress and Beile, winners, fully. Chantress and Beile, winners, sear-old and yearling classes at Winnipeg last July, have also wintered well.
The syndicate horse. Price of The syndicate horse, Prince of Eden Grove, is at home here. Last year he
won first for Draft stallion at hee Portage show, first for stallion and the the of his get, and diploma for best horse at show. J. Wishart's colt, Prince of
Prospect, that won first at Winnipeg Braspect, that won first at Winnipeg. sired by Prince of Eden Grove. This useful sire is in splendid form for another season's work. His former record
is such that his is such that his owners may look for
big patronage.

OAK Grove herd
In writing us, lately, David Clark, of Bottineau, N. D., states as follows

- Things Our Shorthorns are in fine thrifty con dition. The bull purchased from Mr. Greenway is, without any boasting, a ing strong and of good quality. We are
pretty well sold out of yoult cept a few, which we have reserved for a combination sale to be held at Fargo
next June. We are also holding a few
feme females for the same sale. All few
cattle, about 90 head. are in fine out

 matter of your paper is good, and th
cuts of stock and farm scenes yery clen messrs cralgife mains Messrs. A. \& G: Mutch, recently pury
chased from Mr. Jas. 1. Datidson. Bal Ont,. the following Shortherns. May
flower $6 \mathrm{th}=39311=$, a choice individua)
descended from the hert descended from the herd of Symee of
Redkirk, Scotland. She is with calf to a Cruickshank Gloster bull. The other
two are Golden Drops-the family

 of the same blood, Colden FFame. which
he later sold for $\$ 1500$. he later sold for $\$ 1,500$.on. With these
three. a Lavender and a Ury, from Jolin
Turner Colven Turner. Calgary, and the four heifers of
Fon. John Pryden's breeding. described
in February 20th in February 20th issue, Messrs. Mutch
have laid a strong foundation for a
high-class. Shorthorn herd


HOLWELL MANOR FARIV FOR SALE Two Sootch Collit bitches :
mos, the other 15
mos old. D. G-GAITIOIN J. Richarils, Bilideord, P, E. Islant,
 maotum Pole siou HIGH PARK STOCK, FARM

 - $A$ brrdern - angos toin mon ootmativil sell right. of Tweedhill. W
W . HALL, Washington P. SALE! IIIGLESIDE HEREFOROS.

R. \& S. NICHOLSON P. O. Parkhill Station,
Importere end breoters of

SHORTHORNS Have for sale:




TROUT CREEK SHORTHORNS


JAS. SMITH,
378 W. D. FLess state soath
Shorthorns, Clydesdalos, Yorkshires in damm now offering, the bull, Count $A$ Amaranth, imp
heifer, 2 years old, and young bulls 10 months old

A. E, HOSKIN, spmingVale farm, N( HIIMBRIE Three

HIS IST is prepared especially for buyers out of town. Wianos through the mails. and pianos through the mails, Our customers stretch from
ocean to ocean. Oompletest satisfaction is guaranteed. Wo ocoan to ocean. Completest satisfaction is guaranteed. We
willingly refund money if instruments are not just as we willingly refund money if instruments are not just as we
describe them. Here is a list of 14 organs, all carefully overdescribe them. Here is a list of 14 organs, all carefully over-
hauled at our own works before offered for sale. Reepond quickly and secure good choice.
















 LIttle prices. payments to suit customers.

HESE ORGANS are sold under the following conditions: Organs under $\$ 50, \$ 5$ cash and $\$ 3$ per month ; organs over $\$ 50, \$ 10$ cash and $\$ 4$ per month. Discount of 10 per cent.
off for cash. Freight paid to any point in Ontario, factory arrangements made to other Provinces. If monthly payments are not convenient, quarterly or half yearly pay ments can be arranged to suit.

YE OLDE FIRME OF
HEINTZMAN \& CO.
115-117 KING STREET WEST, TORONTO.

Carriers, Fork and Sling's Have now bocore a standard of exoellence with the formers
the Unitod States. At






## TRADE NOTES.

 TWENTHETH CENTURY HARVEST-ING.-We have recelved from the McCormick División, International Har vester Co., Chicago, m. e copy of heorutifully bookiet, in which appears a beautifuny illustrated description of the moder Hoader for use in the world big harvest fields. It in an artiotic on will as a usefol production, describing up-to-date machinery of the highen ing made in this zin the advances be ing made in this respect-ond who ${ }^{3}$ not 2 -drop a post card for a copy of thebooklet to above address.

THE ONTARIO WIND ENGINE AND PCIEP CO. are favored with another Airmotors, Smbractng a corica fore of their Airmotors, embractng a complete outait,
including fanks, otc. This is for Cuzco, Peru, and fif ianticipated to be the beginning of thilftrade in that quartor of the world. There is no better way of than the export of her goode the eart

THE DANDY WINDMILL,-Intending purchasors of windmilis would do well to "Dandy." mannufactured by the Woodstock Wiad Motor Company. It hat graphite bearings, and operates with conditions. Ease and safety under all dopended upon to thoroughly it may be self. The firm also makes grinders, pumps, wator tanks, drinking basins and saw benches, all of which will be found

THE KIND OF SMEDS THAT YIELD. For nearly halt a century Ferry's seeds have been known, until farmer gardener alike heve learned to depend
uppoii their wonderfully reliable. growing and yielding qualition. It is better to pay a little more for the soed and be
assured of a great deal more at the vest by sowing Ferry's seeds. The Seed Annuel, which to sont free, postpaid, will be found unusually intereating
and instructive. Write for it to day Address D. M. Ferry Ont.

Fiads Caustic Baleam to be Rellable The Antigonishe, N.S., April 80, 1902. I can env thatems Co., Cloveland, 0 three years been a user of Gombaulur's to be all that is claimed for it, found it in a great many instances recommended the nee to othera,-R. D. KIRK.

Expeotations Reelized.
Litity, Pa., March 22, 1 1898. Mr. W. F. Young, Springfold, 22, 1898 , Dear Sir, -I am vory well satisfied with
your Ahorbine your Absorbine, which did exactly
what you sald it mould what you sald it would.

Yours respectiully,
JACOB BIEDINGER.

GOSSIP.
In this lasue, we call attention to the advertiement of J. Crouch \&on, propriotore La Fayotto Stock Farm, La oldeat importhg firms in the country. They fmport all breeds of draft as well as the German Coach stallione. This Arm have imported 359 head of atallions
in the last 15 months. and heve 105 in the last 15 months, and heve 105
head now bought in Europe, which be in thelr barns by April 1st. The German horse is a producer of high-class horses, and the horses of Crouch \& Son
won first prizes at all the Won irrot prizes at all the leading falr few farme in America that can show as many high-class stallions, both Coach and draft, and prices are as low as any Crouch \& Son give guarantees Mestra, their stock, and wake terms satisfactory to buyers. La Fayette, Ind., is 249
milles south-weet of Detrolt, on matu
line of Wabanh Ry

used bỳ particular pepple both young and old. Keeps the skin soft, clear and white
No other Soap is just as Good. an alekrt tout soip ca, mitr, noinemi.


MOST PERFECT MADE.


JOHI DRYDEN \& 80 N meosthe, omianta






Grandyinw shonthonns

思
H. K. FAIRBAIRN rose cottage,
Thedford P. O. and Station. One bull 18 months old, 10 cows, 8 yea
 Lakvilow Shorthorns, Igatiad

 CHOICE SCOTCH SHORTHORNS. ${ }_{8}$ FOR BALE-Four balas trom
 W. G. HO WIDEN, Columbus P. D.
Myrtle, C. P. R. and G. T. R.

## GOSSIP.

Messra. E. \& C. Parkinson, Mhornbury Ont., write: "The Beaver Valley herd dition; have wintered well. The crop of young calves are an exceptionally oitrorm lot, full of quality, with plenty of size. This season, the demand has prices very satistactory. Still could
spare some extra choice yearling and spare seme extre choice yearling and
two-year-old heifers, reds and roans ; also. one two-year-old bun, dark red,
got by Diamil Jubilee (imp.) : also, got by Diamond Jubilee (imp.); also,
one yearling bull. Prices right. Call one yearling bull. Prices right. Call -
Mr. Arthur Johnston, of Greenwood, mont, to sea that the Greenwood herd of Shorthorns is in oxcellent condition. The young things, in
looking their very beat.
perticular, are
We still have ot- splendid young bulls. strod by tm ported bulls and out of imported dams
of the very nicest Scotch breeding. We of the very nicest Scotch breeding. We also have inve very fine young bulls, out sires. We stil have a very excellent lot of helters, from thported scotch cowe and by imported sires, as well as capital
heifers, bred from cows of the very heiffors, bred from cows of the very
nicest pedigrees, and sired by imported
bulle bulls of outstanding merit and the richest breeding. We are selling at the low-
est living pricos to make room. of recent sales, fre go to points in the United States, and six to Canadian
destinations. The demand is good and destinations. The demand is good and
prices fair.
mportant sale or mmported SHORTHORNS COMING, Among stockmen throughout the Doannouncoment, in our advertising
columns, that on May 13th there will be columns, that on May 13th there will be
sold at auction in the village of Markham, Ont., the entire herds of 45 head of imported Scotch Shorthorns, belong-
ing to Messrs. Geo. Isaac, of BomanIng to Messrs. Geo. Isaac, of Boman
ton, Ont., and John Isaac, of Markham, Ont. Not for many years has such an opportunity offered for the
selection of foundation stock fresh from the fountoin-heod a herd view of the quarantine regulations now years to come is certain that not for cattle egain be offered in one sale. Messrs. Isaac has enjoyed special advantages
In securing these cattle, having relatives in the business ta Aberdengshire who
in the
have had a lifelong training in the have had a lifelong training in the
breeding of Shorthorns of the approved breeding of Shorthorns of the approved
modern type, and being thoroughly ac quainted with the best Scotch breeders and herds, have special facilities for
securing stock that fills the bill for this securing stock that fills the bill for this
country and for the times. The animals are all young and are of the blocky, thick-set, deep-fleshed type, and most of the females of breeding age have been
bred to high-class bulls in Scotland or bred to high-class bulls in Scotland or
to first-class imported bulls of the same type here. The sale has been fixed at
a time that should suit buyers,
spring spring seeding should suit buyers, the the
season for stable-
feeding being practically feeding being practically over and the
pastures nearly it not quite ready to pastures nearly it not quite ready to
turn into. It will be a rare opportunity for young breeders to secure a ioundation for a family of up-
to-date character, and there are few breeders of any standing whose herds
would not be helped by the introduction of new, fresh blood of the class conained in this oofering. The location in the center of one of the best districts in the Dominion for high-class Shorthorn ing may be seld to have been the pioneer home and nursery of Scotch Shorthorns Canada, and has proven a congerial
reeding ground for them for 40 yeariar more. Mr. Geo. Isaac having sold his farm and Mr. Jomm Isanc rented his, they
have nowhere to keep these cattle and have resolved on a dispersal sale,
whilch will be absolute and unracserved which will be absolute and unreserved.
Let every one who feels an interest in
this sale apply in good time for the catalogue, and arrange his plans for an
outlig on the day of this sale. Further
notes of this offering thit) hime loted for


## 3 FEEDS FOR ONE CENT

Gentlemen:-I would like some more "International Stock Food." Have been feeding and selling your goods for more than
wo years. I am a large feeder of hogs, breeding recorded two years. I am a large feeder of hogs, breeding recorded
Polond-Chinas. Heve e large trade. Meet all the breeders of the State, and have recommended the use of "International Stock Food" whenever the opportunity has offered.
I have shown hogs at the Fairs in the State for two years.
Have taken 87 prizes in the past two years. Before usio Hood I never took a prize. Since using it I have taken a larger amount of them than any other exhibitor with whom I competed. Iam now fitting a herd for this Fall's show and want some more
JOHN D. MARSHALI of your Food. Yours truly, JOHN D. MARSHALL.
FFWe will pay you sicw cash to prove that our testimonials are not geeniac.
Sold on a "Spot Cash Guarantee" By over 40,000 Doalers.


## A $\$ 3000.00$ STOCK B00K FREE

IT COMTAMS 183 LARES BNORAVNES OF RORSES, CATTLE, SHEER, POULTRY, ETC.



THE CYCLONE SWEEPS THEM ALL.


NOT ONE MACHNE HAS bEEN Returned.

$W^{\mathrm{E}}$ have been sending out our Sewing


 from thoket whontains 4 parees of letters received
We take wo ohave rried them. We take no rist in isending out our sewing
emachines on Free Trial dhey are better in all
essential featrest
mechines and than any of the high-priced

 litue pamphlet, "All About Sewing Machines," high priced mace hines ind youmpare hit with the
to text them. it will be sent to any Mddress on application. heir important parts and tells how WYINDSOR SUPPLY OO., WVincleor, Ont.

Joseph Rodgers \& Sons

## SHEFFIELD, ENGLAND

Please see that this exact mark is on each | bladeo |
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JAMES HUTTON \& CO., MOHTREAL, SOLE AOENTS
W. G. PETTIT \& SOIIS freman. ont.. oan.

## Scotch Shorthorns

 and SHROPSHIRE SHEEP,



Foine: 27 Head of Imported SHORTHORNS
 SCOTCH SHORTHORNS $\begin{gathered}\text { poR } \\ \text { simported }\end{gathered}$
 Rockwool P.o. and sta, ©. T. E jus. GibB sumurysioe stock faru, ${ }^{\text {B }}$ Brown SHORTHORII CATTLE. SHORTHORN CATTLE $\begin{aligned} & \text { and Oxford Down the p. } \\ & \text { Imp. Prince Homer }\end{aligned}$





 om Wr. grantar Lendemoro ont Greengrove Shorthorns sumber 3 zhen


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## NATIONAL <br> \section*{WILL DO.}

## It will increase the yiold of buttor about 11 lb

 It will be placed on trial beside any other
ineam Separator and prove to be superior in








Capacity, 150 to 500 Ibs. per ho
Capacity, 330 to 350 ibse per hour.
Capacity, 250 Ibe per hour.
Give the National a trial. Sond for partiou-
lars to aoy of the following general lagenoies;
The CREAMERY SUPPLY CO., Gualph, for South-western Ontario.
The T. C. ROGERS CO., Gualph, for Ontario Morth and East. JOS. A. MERPICK, Winnipeg, Mann, for Ilinitobaa and II.-W. T. JOHM A. ROBERTSOH, 108 Union Avenue, Montroal, Quetbec.
The Raymond Mifg. Co, of Guoph,
GUELPH, ONT,

IMPORTMIGOATMTEO


PINE GROVE SHORTHORNS AND SHROPSHIRES,
 W. C. EDWARDS \& CO.

Rockland,
Ontario.
 SCOTCH SHORTHORNS Choice you hor home herred imported an BERKSHIRE SWINE AImo C. P. R. Station and Tolograph Omion te

## SHORTHORNS

$W^{E}$ arR offering For sale a grand lot of young imported Sootch cows and heitere
Herd Numbers 150 Hesal.
Send for New Catalogue.
VIBITORS WELOOME. AND OORRESPONDENCE PROMPTLY ATTENDED TO.
H. Cargill \& Son.


## 12 SHORTHORN BULLS 12

First-class Scotch Breeding
CHOICE QUALITY. LOW PRICES.

cosetp. The dispersion sale of the Shorthorn Moines, Iowa, Bigler \& Sons at Des though the cattere were in very thin con-
thona dition-indeed, in about the worst possibibe condition for selling-made an average of $\$ 211$ for 320 bead, a result which demonstrates strong confidence in the outlook for the breed. The imported bull, Imp. Merry Hampton, looking much better than the temales, in his six muen old form, brought $\$ 2.500$, being bourn by McLaughlin \& Watts, Goose Lek lowa, Prof. Mumford, for Illinois Agricultural College, being the runnerup.
sale of col. mocalmont's south downs.
The announcement is made in our ad
vertisement columns that on Wedinestay verisement columns that on Wedneodery,
the 22nd day of July noxt, the worldWie 22 no day of July next, the world
wide noted flock of Southdown sheep property of the late Col. McCalmont, will be dispersed by auction by M, Mesrs
John Thornton \& Co., the noted aric tloneers. Our own representative, Wor. Whapman, of 4 Mowbray House will be pleased to be of service to any
of our Canadian triends of our Canadian friends who -ma
avail themselves of den avail themselves of beling presep
on this important occasion, which
ond will certainly be onecasion, whic
important stud the
mos ing season. To seay sales the the com ing seass hock itay that the character
of this fork up-to-date is to state the truth mildy tor it has secured a place quite at the
head of the tront rank, as the prize rec ords at the princlpal shows in England in the last three years clearly demon for those he reason, is not mar to seek pursued by the management know' tha course only has been pursued in the pure chase of stud animals sif., to got the
best regardess of cost best regardless of cost. One who has
been an interested spectator of the whole of the show-yard career of the fock has sald there was no doubt but that the greater than in any other he knew of. Taking the year 1900 , we find, traeting
of the summer shows ropresantatives were sent to eleven show, and they secured twent 5 -three awards, the same one champion frot, two reserves for seven r. n's. In 1901, the and shows a greater improvement. for
though the number shoms though the number of shows at which
entries were made remained the same, the results were surprisingly different. one champion. one champlon, three reserves for the
samie, eleven firsts, ten seeconds, one third, and elght r n's. With one addiclean aheaw of all tis competitores, and
when the show-yard carer when the show-yard career for the year
was completed it had secured to its credit no less than ten champion amards
seven reeserves for the firsts, seven secondse, three thirds, and
eifht eight r. n's. Although as an ande. wo
only refer to the bred. for proor of the merrit of of any herd
thows fock for stud purposes. it would not be doing justice to thes great fock's repu ation to omit all reference to its great
success in the winter shows of the year
sont 1901. When a series of three pens of
 and Smithfield: at the latter winning pen also won the breed show the
short-wool championshin almost equal success was secured, and it was generally considered hard louk that
the noble pen of wethers which won the 1st prize and breed cup did mot ant also win
not the Short-wool Challenge Cup at Smithfeld. There is, however. one most
important aivantage that one murchasers

 of the best flock in selection of oine
has been breat with oxistene., which naurely, to besamie the very beest one of
Its breed.

## J. \& W. B. WATT Shorthorns, Clydesdales and Berkshires nitiobreed our show attle and thou our breedile     ARTHUR JOINSTOK, GREENWOOD, OITTARO,

 and by imp, siroes
9 Youne bulis, of pureat sootoh breedins. 13 yearling and is two-yEab-oL hetpers.
Plokering Station, a. T. R
Soring Grova Stoch Farm
Shortion Gitto ani Lheola Simop.

T. E, ROBSON, LLDERTON, ONT. SGOTEI BOHS and HEIFEIS


 ROBERT MILLER, - STOUFVILE, OIIT. SEOTGH SHORITHOAIIS AID SIHPOPSIIIIES.



 James Caskey, nverton P.O., Mineitithio Stim


 Somarlorn Gatil - dumeor, omes.



J. T. GIESON, om DENFIELD, ONT

 Orchard Ilill Shortioris. I ite nom ofternes. 13

 FIVER FARM SHORTHORNS
 a. PARIER, DURAAIF P. O. and STATIO SUORTHORIIS. Importod and domith-Gien
 JAs. A. ORERAR, shokespearo, Omt. an PENNABANK STOCK FARI

 will be increased.

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 yrymin
JOHNMILLER BONS, -
SHORTHORNS (IMP.)

 Elowame nosumeom.
Scatch Shorthorns
 Tho rmathe shore,
MAPLE LOOGE STOCK FARM -



Storthorns, Beristives anf Lelcesters.
 ISAEL OROFF. ALMA. Ontanio SHORTHORNS.

 EEDMOWD Bros... millbrook sta. and P O
 BURN
 BCOTCH BHORTHORNS.
 shoortuons (imotate) rut nutain exten ont

Mecouthy Mr. Walter Hall, of Wentingtan, wrote na, segting: " My Abe the fague berd to mow looking five. The lmproving every doy, and the now ang, a bell an I heve over seev. Hy tuportel cov and her call. Pride of Dalmeny geh. are doing wall. and the goungater will bo hard trom theer.
wewre. C. \& J. Carrathers, of Coburg Ont. Write me malng: "We heve moth a good number of mileo through our at wertinement of Sthorthorns fin the "Ad
 how. soolk several cown and heilfors, and Hom. Thow. Greewway, Meaftobe, gree a good bull. Some of our stocl has rome at far coot as Prince Eluaph Inind To. lyove aloo good denalit Yorlv Pifrow and Berlablires aile lidi Marrod Plymouth Roche, of whel weile bookfig orturs for eot for hatchtig: alsn, a good litter of Berlahires, four month old, whili we are oflering for mele.

Mr. Jas. Gibb, of Brooksadale, reports the following sales: To Dowaral Ileperte, Alale Cratg. one ball ; to Geo- We. Heliay, Maplewood, Ont., one bull : to
 to Sempel Lyons, Byng, ont., one year-
ling bull and one grand two-monthoold ling bull and one grand two-months-old
buil call by Spicy Marquia buil call by Spicy Marquil (liop.) ; to
Willimem Taylor. Conroy. Ont. one year-
ling bull. Willmam Taylor. Conroy. Ont., one year-
ling bully to Wm. Hogg \& Son,
Thamesford, Ont one yearting bull Thamestord, Ont., one yearting bull, also
one five-monthe old roan bull calf, got by Speculator (imp.). dam Village, Iraid
29th (imp.): to Conrad Wagner ET mira, Ont.. one cow and a red boll. call by Spley Marquis (imp.): to W. D. Flatt, Hamilton, Ont., four heifer calves
by Spley Ilarquis (imp.), and to Jas. by Spley Marquit (imp.), and to Jas.
Hyslop. Stratlord, Ont., the atock bull Imy. Prince William. All the bulls he had advertised in "Advocate" are sold. He has a number of grand young bull
calves by Spicy Yarquis (imp) calves by Splicy liarquis (imp.).

On a recent visit 20 Mesurs. Bawden at
MeDonell, Ezeter, Ont., we were glad to hear that sales were very brisk, they having sold two Clydesdale stallions, viliage bors an Ther Champion, both to Mr. R. Willis, Boissevain, Man. These were two extra good clyde horses
with good quality and bone. ler. S. P. Thompson, of Kegina, also pyrchased and three Shire gtallions. Their champion Heckney stallion, Connaught's Heir, has soen sold to R. Alexancer \& Co...Forest,
one of the highest-priced horses sold in Canada. To Mr. W. Raye, St. Mary's, good feet and size. They have for sale three Shire stallions: Cannon Gate
$=10521=, 17$ hands, weight 2.200 lbs.; $=10521=.17$ hands, weight 2.200 lbs,
a sure sire , he stood at Paisley,
Scotland, as a district horse. and wa let there at $£ 400$ Holme Sexton
118099 , a very likely-looking six-year-old bay: about 2,200 iba, ; a very
massive and well-put-up sire, from very massive and well-put-up sire, from L.in-
colnshire Lad. Raydon Ambassador
19047, a three-year-old tew months thee-year-old, who should in a
In any prize-ring with Credit to his owner; stands 16.3 hands,
weight 1.900 Ibs : sired by Prince
Ilarold, a great prizewinner prominent shows. Messrs. Bawden of
$\mathbf{M c D o n e l l}$ may be justly proud of the yess of their horses in the past, having
had such noted horses as Belshazzar, who Londion fairs on several occasions, and
first premlum at the Pan-American Connaught's Heir, champion Heckney,
tc. They have also for sale. Buller =7382=. \& dark bay Hackney stallion
with great chest-girth, bone nnd quality With great chest-girth, bone and quality,
kood knee and hock action, with plenty



ROBERT HUNTER, Manager.
Enar mintrital. eleotrio oars. Lachine Rapids, P. Q.
English Shorthorns. |Hight-Class Ajrshire Gattle


 1 बUARANTEE A 500 PACKAGE OF BARREN KOW CURE
 Wher sotibek. Drugetst, Morrisburg. Ont. Jersey Bulls Our of terion chow cows and mived by Brampton's


Best Jersey Bulls at lowest prices.
 mede I oner several bull chives, of unsurpeased

国rs. B. I. Jones, Brockville, Ont.
DO YOU WANT A SNAP? Jorey cons and heifere also two young bothe,
 JERSEYS, COTSWOLDS, YORM SHIRES

 Maple Part Farin Holsteins. $\begin{gathered}\text { Netheriand } \\ H a m m i n \\ \text { De }\end{gathered}$
 rineton olvina, Home of the great comere Edgeele




Ridgedale Farm Holsteln-Friesians for Sale.


Tredinnock Aysshir res.




 AYRSHRES and YORKSHIRES



NETHERLEA AYRSHIRES. Present offering: 3 buls At for service, prise-
Winners alo Napoleon of A Achenbratn (haph), Whiose amm
 AYRSHIRE CATTLE 20. Younck Fowl ind YULLL \& SONS. em Carioton Place, OnL W. W. BALLAIITMIE. Stratford. Ontario, YEARLING AYRSHIRE BULLS
 calves, jearlings and two-jear-olds heom
-LITTIE:S
PATENTFLU|E

SHEEP DI. THE ORIGINAL
Non-Paisonous Fluid Dip
 For sheep.

Cattle, horses, pigs, ote.

Preventer the attack of Warblo Fr
 No danger, safo, cheap, and offective
 reng, and required. Speciel terms to breeclers, rancon SOLD EY ALL DRUQQISTB.
SEND FON PAMPHLET.
Robert Wightman, Drugrist, Sourn
SHEEP BREEDERS' ASSOGIATIONS
 arrepoodence to Mo T TIMER LEVERING, Socre
Dorsets Chestars $\begin{gathered}\text { Young beok in } \\ \text { Dorot Bhe } \\ \text { and Ohes } \\ \text { white }\end{gathered}$ White Hogs of good quality for ende, rensonbble. mOR SALE. AT MAPLE AVENUE BTOOE Lincoln Sheep atil Shorthorn Cattle

H. NKIL, Proprlotor, LUCAN, ONT.
cossip. Writing us under recent date, Mr. Jas. Bowes, Stratnalrn, says:-"I am much pleased with the Farmer's Advocate as an advertising medium. I have now some yearings and twoserved by my stock bull. In this year's crop of calves I have some beautiful helfers of the various families named in my adyertisement." Shipping station, Meaford, Ont.

Mr. W. W. Ballantyne, of Stratford, writes us, sending change of ad., and says:-"The young Ayrshire bulls I
am now offering are a capital, good lot of the best dairy type and Ayrshire character. I have also on hand, and for sale, several young females, some bred and some younger." Parties de-
string to secure good dairy iblood will e given a good assortment of stock rom which to select. Write or visit
W. Wallantyne, Stratford, Ont We are informed by Mr. J. M. Gard-
house Weston, Ont., that sales have
been very brisit lately, he having sold
and shipped to Mr. W. of Napinka, Man., the W. Bp. Clydesdale stallion Gay Gordon and two Clydesdale mares; also 7 head of Shorthorn 3 Yorkshirre and 2 Berkshire hogs. He also purhased from Mr. John Bright, party. Mr. Gardhouse attributes mach
of his success in mus of his success in business to advertis-
ing in the Farmer's Advocate. -

When ordering a continuance of their
advertisement, Bell Bros., of Bradford, advertisement, Bell Bros., of Bradford,
write : ${ }^{\circ} \mathrm{We}$ might just say that write: "We might just say that we
think our advertisement is $\approx$ profitable investment, as we get correspondence from prospective buyers of Shorthorn
cattle in every cattle in every part of the continent.
We have sold one bull to Frank Lloyd, We have sold one bull to Frank Lloyd,
Severn; one to Dennis O'Connell, Severn; one to Dennis O'Connell,
O'Connell $\mathbf{P}$. $\mathbf{O}$., and one of the Winder-
mere Stock mere Stock Improvement Co, of Muskoka;
also one bull to Jos. Sawyer, Gillord, also one bull to Jos. Sawyer, Gilford,
Ont. I have still one bull and four
heifers heifers left."

TRADE NOTES
FROST \& WOOD. - This well-known established 1839 with farm machinery, Smith's Falls, Ont., have recently issued a handsome up-to-date catalogue issued plements of all kinds for farm work the broad prairie can be purchased direct from this well-known firm or through
their nunerous agents. On princess St their nun.erous agents. On Princess St.,
Winnipeg, the Manitoba branch offices and warehouses are situated. They are and equipment, and contain a large supply Seven other branch offices and ware-
rooms are located ing leading centers of our Dominion, so that ness overg all parts of pushing their busivarious conditions of the many parts of our Province, paying special attention to
the growing needs of our Western wheat
fields.

THE SPRAMOTOR CO., London to be write us : ". There seems
that an all别 and inferior by somperatus, thereby of cheap themselves apparatus, thereby rendering
liable for infringement of trade-mark. The public are hereby
notified that there is only one Spraand sold under the world, which is made and sold under the trade-mark, 'SpraLotor,' made by the Spramotor Co. of
Lendon, Canada, and Bufalo, N. Y. All
Spramotora Spramotors are fully gufalo, N. Y. Ananteed in first plaspect, at the Chey were awarded
Soraying Contest and the Government gold metral. Write for free particulars,
The Spramotor Co


PRIERWINNING COTSWOLDS.
 IMP. COTSWOLD SHMEP
 Enooks \& LANOMAlO. OOUNTIOE,ONT, W. S. CARPENTER, MODEL FARM." SMCOEE ONT





SUIROPSIIIRES FOR sALK, - Sheorligg ram
 Din
Hovecastle Herd of Tamworth Swine



 EOLWILL BROE. NEWOABTLE, OWT


 WILLOW LODGE BERKSHIRES

witad by thin noteot pribow minnom Hoany thatio
Wo WILEON, BNELQROVE, ONT.

## Large English Yorkshires




Box 518.
 ssacring a
$\qquad$

NHWYMCAREXETY, ENTGINAND IMPORTANT SALE 꾼
Late Colonel McCalmont's Pune-breo Soutiouw Surep.

JOHN THORNTON \& CO. will sell by auction, on
WEDIESDAY, JULY 22nd, at GROGKFORD'S NE WMARKET, the flook. of
BOU'THIDOWNE EFIEREP.



sumanefull Largo English Yorishiriss.





 Large English Perkshilirs Yorkshires and Holsteins Lantiglier's Yor'ishiros






# "I'M STRONG ONCE MORE." 



This is the way they feel, the men who had given up hope, who thought there was no cure for them, until they came upon Dr. McLaughlin's Electric Belt. Now they are full of life, overflowing with joyous spirits, and "Care to the winds." Pains are gone, weakness is gone, and full of vigor is in every action.

Do you want to feel like that? Then wear this grand lifegiving appliance for two months at night. It will charge every nerve with electric life, and you will feel like a two-year-old. It puts steam in your run-down body, drives away pain and renews youth.
"I am an enthusiast," you say. "Why should I not be? I have the gratitude of thousands of people who have been cured by my Electric Belt after the failure of the best physicians." I am enthusiastic because I know that I offer suffering hrmanity the surest cure for the least expenditure of money that is known to-day. I have gained my success by learning how to treat my patients and then curing them. I understand the action of the current on the human system. My years of experience have taught me how to apply electricity. I charge nothing for my knowledge, knowing that it helps me. My patients are my friends. They are advertising my business.

With my Electric Belt I cure Rheumatism in its worst forms; I cure pains and aches, weak nerves, general debility and any other trouble which can be cured by
rostoring strength. I have not on
but I have perfected the best known appliance in the tanoe of life and organic vitality, but I have perfected the best known appliance in the world for replenishing that force in the body when it is lost. My Electric Belt is the result of years of scientific study, Now, experience and mechanical skill.
Belt has to its credit.
Every man and
Every man and wqman who comes into my office gets a practical illustration of my method of cure and goes away convinced that the claiins I have made for it are Arter seeing original letters from the cured (letters which $I$ am permitted to
exhibit) their doubts are expelled, and they know that my Electric Belt makes
strong men out of weak men strong men out of weak men, gives buoyancy and ambition to the man who
formerly got up tired every monning phied parts are made as sound and strong as Nature interdedns and atrograteful letters from men and women who were atured intended. They read matism, Backache, Lumbago, Sciatica, Stomach, Liver, Bowel, Kidney Bladder troubles. They also see the evidence of won lerful cureas of Locomotor Ataxia and some forms of paralysis. The following cures were made by

## DR. McLAUGHLIN'S ELECTRIC BELT.

 In tact Itomanh is as good as it over was and I can eat anythinge
II have notren
Well-BTEPHEW MANTLE, Hoactorord, Ont.

1 have thousands of just such letters. If you will tell me where y
For the benefit of those







PAY WHEN CURED.
READ WITH CARE
the advice of a physician who understands his case. Agents or drug stores
are not allowed to sell these goods.
PREE BOOK-If you cannot call, write for my beautiful illustrated book giving your
 DR. M. D. McLAUGHLIN, 130 Yonge Street, TORONTO, ONT.

THIRTY-THIRD ANNUAL REPORT

## The Mutual Life of Canada.

As presented at the Annual Meeting of the Company held at its Head Office, Waterloo, Ont., Thursday, Mar. 5th, 1903.

The Directors, have pleasure in submitting their report for the year
ending Diec. 1 lits, , 902 , with the financial statement duly
The budite. insurances were issued under 3,011 policies for $\$ 44,527,878$, all of which were
written in Canada witten in Canade excepting 14 policies for $\$ 222460$. The whole amount of
insurance in force is now $\$ 3,467$, 220 under 23,621 policies, being an increase of $\$, 73,389$ for the year. The death rate was very light, and much below
the expectation, while the lapses, surrenders and other terminations were the expect in 1901.
INCOME. The net premium income was $\$ 1,111,897.41$; Interest and
Rents, $\$ 275.507 .03 ;$ Annities, $\$ 1,056$; Profit wad
 , DISBURSEMENTS.-The payments to policyholders
 $\$ 77,813.79$; total, $\$ 183,350.23$ All other payments were $\$ 448,456$. .13, including
ex penses, taxes, etc. The total disbursements were $\$ 723,306,36$ and the ecess
 ASSETS- The Cash assets now amount to $\$ 8,098,333$, 54 , and the total
Issets are $\$ 6.459780 .08$,
 company's standarr 4\% and $3 \mathrm{y} \%$. \$499, 150.24, and on the Government standard, of valuation, the surplus is surplus is $\$ 119,179,71$. NEW RESERVE STANDARD.- For some years past the earning power of mooey has gradually but steadilly decreased. Recognizing the importance Directorg decided to place all new business issued from and after January y st, 1993 upon a 3 per cent. basais of valuation, which has been adopted by many The Manager, Offcers and staff have diter
satisfaction of the Board, and in the best interests of the Compies to the Agents continue to merit the commendation of the Directors and Policy-
holdere, for their loyalty and the success attending the year's work arrs,
The Executive Committee has again examinged all the secur
compared them with the records, all of which were found correct, and in
accornance with the The following Directors retire by expiry of term of
 Robert Melvin. On behalf of the Bert MELVIN, President.

FINANCIAL STATEMENT.
Dec. 314.4. 1901
income.
Premiuns shet)
Interest and reni
leiderr assets.
$\overline{36,880,63990}$
Death Claims
Matarreat End
Nat
Payments to policyholders

Survhused paid loiciel iolicyh wild en
All other pavments.


## 



Additional Amest:
total assets.
Reverve on Politiee in force 4 , and 3 ,
All orther tilitilititics
hiablitities.
Surplus, Company's Standard 4\% and $3 \frac{1}{2}$
$85,957.43,97$
$\$ 499,150,24$
Surplus, Government Standard $4 \frac{1}{2} \%$ and $3 \frac{1}{2}$

Iuclitel and found correct.

## 

geo. wegenast, manager.
unanime various reports having been adopted, the rettiring Directors were mate members of the Board, the Head Office Staff, the Agents and The Directors met subseque
 1 . .kklets, ontainiag full report, comprising list of death and endowment claime prid and other interesting and instructive particulars endowment


FIELD GLASSES=50-mile range-\$3.55
REGULAR RETAIL PRICE, $\$ 10.00$
 FRTFT?
CRRES, would yon like to hevo thi your name and addreses ona a obsticard

 Temadith youl joo tho wit



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 2extavenam

 sompleth diviotio Bockion ir igeo fee
 ond moin furineof petuet
 Erazionatrim

your very


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NORTHWEST TERRITORIES Mgricitutual Insitite Moetings.

A ectess of mievings under the auppices of the local Agriculturai sodities snd the territorial Dopartment
or Agrivalture will be held ian Tollow: -SPRAKERS
Gho. Hascoovity, B. 8. A.,
Gho. Lave, Dominion Forestry Inspector, will delliver lootures on yericultural sibjecots at the Arools, .........Tueeday, March 17 th, at 2 p.m.


 thanaurn. 2. N. Wimine, CRPARERS

Dmone Aron and Beaverdale, Bohoolhopae, Wedneeilay, Mamo 18th,



 Gentell, p.m.
$2 \mathrm{p}, \mathrm{m}$. Indinan 2 Himem. Town Hell, Wedneediay, $\Delta$ pril 1st, at
 All peroone interosted Ave respeotrully urged OHAS. W. PETERSON,

WESTERN SERIES Mgicillural Institut Meetings,
$\Delta$ series of meetings ander the auspices of the lozal Agricultural Socioties and the Terrritorinal Dopart-
nent of Agricultare will be held as follows: speakers
Duscar Andreson, of Prot. Roberteon's staff,
acch. Mirchaslu, Dominion Forestry Inspector,
will deliver lectures on agricultural subjeots at the ollowing pointe and datee :

| ne ore | Tueodey, April | 7th, at 1 p.m. |
| :---: | :---: | :---: |
| Pincher Croek, | Theireday, |  |
| MoLeod, | Friday ${ }^{\text {a }}$. | 10th, at ${ }^{\text {a }}$ |
| Stirling, | .saturday, " | 11tb, at 2 |
| Raymond, |  | 13th, at 2 |
| Cardeton, | eeday ${ }^{\text {a }}$, ${ }^{\text {ded }}$ | 14th, at 7 |
| Magrath, .... | Thureday, | 16th, at 7 |
| Lethbriage | Friday, | 17th, at 2 |
| Didsbury, | Tuesday | 1隹, at 2 |
| Innitaiio | Thursd |  |
| Red Deer, | Friday | 17th, at |
|  |  | 1sth, at |
| Eidmontom, | monday, | \%eh, at? |
| Fort | Wedue: |  |
| Clover | Thured | 23 rd , at 3 |
| Neunkorn | Frida | ${ }^{2+5 t h}$, at ${ }^{\text {ath }}$ |
| oll 5 |  |  |
| Fonoka, | Ho | 27th, at, |

THE FARMER'S ADVOCATE.

## London Fence Machines

bUILD THE FENGE ON THE GROUMD, SAVE HALF THE COST, CBULLD BETTER FEICES.
 LONDON FENCE MACHINE CO. $L$ то.


RELIABLE GOODS IN ALL LINES TO OUR FRIEND8, THE PUBLIC:







24 H.P. Jack of All Tradrg.
Sond for further information and Catalogue.
FAIRBA NKS, MORSE \& CO.,8t. Paul, Mim
F. H. Grane | Canadian Repiesentative

Vulcan Iron Co. LM,

## $\left\{\begin{array}{l}\text { : Ask For: : } \\ \text { dr|in ? ORta }\end{array}\right.$ <br> delicious plavor. FREE FROM HULLS. WARRANTED PURE.

Put up in all sized packages.

Ogilvie's Hungarian AS NOW
MANUFACTURED The great FAMILY FLour.

Insist on getting "OGILVIE'S," as they are Better than the Best. Have no equal.

## YOUR MONEY BACK

 if YOU DO NOT L!LE
## Imperial Maple Syrup

Return it to the dealer of whom you bought it,
who is authorized to give you your money back.
ROSE \& LAFLAMAME, Agents, MONTREAL.

## McLachlan Casoline Engine




201 quenin St. E. товоІто,
 W. C. Whicox ab co, winnipea,



[^0]:    A Small-souled Regulation.
    The amended act admitting pure-bred animals duty free when imported for breading paurposes, shows that Congress has limited this privilege to
    citizens of the United States Any mav hereatter sand over tor sale petiomened who mals for breading purnosee must pay ofuty flul text of the amenited paragranh follows.

    Any animal imported by a citizen of the United States specially for breeding purposes shall be admitted free, whether intended to be so used by the importer himself or for sale for such purpose : Provided, that no such animal shall be admitted free unless pure-bred of a recognized breed, and duly registered in the books of record established for that breed: And pnovided furperigree of such animal shall be pud of the submitted to the customs officer produced and icated by the prover custodian of such authen ecord, together with the affidavit of the owner, agent or importer that such animal is the idenical animal described in said certificate of record and pedigree : And provided further, that the Secretary of Agriculture shall determine and certify to the Secretary of the Treasury what are recognized breeds and pure-bred animals under the provisions of this paragraph. The Secretary of the Treasury may prescribe such additional regulations as may be required for the strict enforcement of this provision. Cattle, honses, sheep or ouher domestic animals straying across the
    boundary line into any foreign country, or driven across such boundary line by the owner for temporary pasturage purposes only, together with their offspring, may be brought back to the United States within six months free of duty, under regulations to be prescribed by the Secretary of the Treasury : And provided further, that the provisions of this Act shall apply to all such animals as have been imported and are in quarantine, or otherwise in the custody of customs or
    other officers of the United States, at the date of the passage of this Act.'
    Hlow would American horsemen, who are doing
    such a thriving trade in Canada, relish the impo such a thriving trade in Canada, relish the impo-
    sition of similar narrow-gauge regulations by sition of similar narrow-gauge regulations by
    Canada? The law makers of the Dominion do not seem to be built on such small-souled lines.

[^1]:    ## Imported Scotch Shorthorns

    At the Village of

    Martham,Ontario,
    on the Midland branch of the G. T. R., 22 miles from Toronto, and thre miles from Locust Hil
    Station, C. P. R., on

    ## Welnestiay,

    > May 13, 1903

