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 Winnipeg, Man.
## LONDON, ONTARIO, MARCH 23, 1916

## EDITORIAL.

The spring equinox is past and spring begins in earnest. Are you ready?

A Comparison of Product Values. the city make uncommon thing to hear a man of only man making any money these times." It the not an uncommon statement before the war. Somehow, the consumer had the idea that because it cost him more to live than it formerly did, the farmer was getting all the money. The other day, while was getting all the money. The other day, while
reading a part of the voluminous report of the Commission on the High Cost of Living, we came across mission on the High Cost of Living, we came across
a few figures which are worthy of some attention a few figures which are worthy of some attention,
and which perhaps more than many of us think and which perhaps more than many of us think, show a clear reason why the rural population of Ontario dwindled by over 50,000 during the first decade of the present century, while the urban population increased nearly 400,000 . Just study these figures for a minute. In 1911 the total capital invested in agriculture in Canada amounted to $\$ 4,224,695,387$, and the value of the total product of agriculture in that year was $\$ 663,349,190$, or 15.7 per cent. This means that the total product of the farms of this country in 1911 represented only 15.7 per cent, of the capital invested in agriculture, which was according to figures given in the report, a decline from a return of 20.4 per cent. in 1901, at prices which were much smaller than those which were obtined in 1911. Let us look for a moment at turns which manufacturers made on capital inve in 1910, one year earlier. According to fle in the report manufatures of food doble given gross return on anale made Capital invested in ther lines 18.6 per cent. Capitarns as follows other ines of manufacture made and steel products, 910 , per cent.; iron and steel products, 91.9 per cent.; timber leather and its heir re-manuactures, 71 per cent.; eather and its inished products, 128.8 per cent.; paper and printing, 74.1 per cent.; liquor and beverages, 66.9 per cent.; chemicals and allied products, 103.2 per cent.; clay, glass and stone products, 56.2 per cent.; metais and metal products other than steel, 109.1 per cent.; tobacco and its manufacture, 116.9 per cent.; vehicles and land transportation, 141.1 per cent.; vessels for water transportation, 63.5 per cent.; miscellaneous industries, 44.4 per cent.; hand trades, 133.3 per cent. These percentages represent the the value of the product turned out by these various lines of manufacture in 1910, in comparison to capital invested in them. They average 93.4 per cent. of the capital invested, and during the ten years from 1900 the percentage decrease in return was only 13 with manufacturing plants, as compared with 25 with capital invested in agriculture. But all that is necessary is to compare the 15.7 per cent. gross return on the capital invested in agriculture with the 93.4 per cent. gross return on the capital invested in manufacturing industries, to realize that the farmer manuactultg iscurties, to realize that the farmer is me gufag ane the the same returns as is facturer is able to ane hery fact that the manu facturer is abe to make higher returns, and, in many cases, is based besides, enables him to pay higher wages than the farmer can afford to pay, and consequently the trend of the rural population is bound to be cityward.

## The Teacher's Important Position.

One of the drawbacks to our educational system in this country is the comparatively small salary paid public school teachers. The school teacher, particularly the rural school teacher, is always looked up to as a leader in the community, and so the teacher should be. The training of the children should always be in the hands of the most competent among us. The teacher, next to the parents, has the most influence upon the receptive mind of the child. The character, thought, and ability of the rising genera-
all depend, to no small degree, upon the charac ter, thought and ability of the teachers, who, in the public schools of the country, lator to decrease the percentage of illiteracy. This being the case, it doen not seem to be quite in keeping that the profesaion of school teaching should be so poorly paid that few young men consider it at all in mapping out their life work, and those who do simply use it as a stepping stone to something, possibly not higher, but which returns a higher remuneration for service rendered Teaching is by no means an easy occupation. The proficient, successful teacher certainly earns more than the average of $\$ 500$ or $\$ 600$ or $\$ 650$ per year, which obtains in rural districts. It was pointed out the other day in a discussion of the subject, that while many of the teachers are under-paid, others, who do not take an interest in their work, who are not pro ficient, and who are teaching simply for the money that is in it, get more than they earn. It was a Public School Inspector who made the statement. We Wonder what the duty of the Inspector is in such case? If the teacher is not capable of earning the salary that the average rural school pays, he or she certainly should not be in the school, and the Inspec tor of such schools should make the fact known to the Trustee Board. Whether or not teachers are getting enough remuneration, the fact remains that there are very few men, forty, fifty, and sixty yeare of age, who have thought enough of the piofearion to make it their life work, and who are atill teachin in a country school. Surely the rural school should have just as good teachers as the oity sols surely the education of our children should, and the hands of the most capable men and wo im country produces, There is only one way women the plish it and can in accomthat their ability an salary rigid inspection of can command, and insist upon a rigid inspection of the schools, so that none but the best are permitted to train the young minds of the country. But before the rural teacher can get the salary that a good teacher must earn, the farmer's are ons come pare more favorably with the returns which manuacturers and business men are able to get on the capital invested in their various lines of business.

While on this point we might also suggest that too much stress should not be placed upon the teaching of agriculture in the public schools. Why should agriculture be taught any more than any other trade or profession in the elementary teaching common to could could be done if the teacher had the proper appreciation of agriculture, had the proper knowledge of the subject, and then proceeded to teach reading, writ ing, and arithmetic from books not prejudicial to th cause of agriculture, from an un-biased mind ready to encourage the boy who expressed the desire to farm to be persistent in his desire, ready alwaye no to prejudice the young mind against agriculture and hold out rosy prospects for the child in some othe walk of life. Give agriculture a fair field, with the boys and girls of the country, and there will be no need of teaching agriculture as a subject in the public schools, We believe however that it should be subject given more consideration in the secondary schools

How gratifying to read that the Allied lines an France hold! And how gratifying to the man who realizes that he is doing his bit to help it hold! The men at the front make the supreme sacrifice, and hose at home who do their utmost in production, in money, in comforts for those who fight, in the main. enance of Britan's commercial supremacy provided they give liberally, are essential to finall succeen

The Farmer's Advocate AND HOME MAGAZINE

the leading agricultural journal in the Published weekly John WELD, Manager. aeenta for "The Farmer's Advocate a



## Should Co-operation Begin in

 Marketing?Last week we had a short article, in which we at tempted to show that in so far as purchasing supplies is concerned, co-operative organizations of farmers cannot afiord business for any firm to do so. We hope the article will draw out discussion on the matter, and in this article we wish to advance the idea that the main business, or at consideration of a farmer's organization, should be the matter of marketing the produce of the farm to the best advantage. In talking with a prominent farmer, a short time ago, and a man who has had a great deal of experience in co-operative work in this
country, we advanced this idea, and he informed that it depended a good * deal upon the local conditions where the Farmers' Club, or other organization is operating. In some cases experience had taught that more good work could be done in buying supplies than in selling goods. We appreciate the fact that in come localities it is necessary that some kind of organithe farmer must purchase, but on the wholes which lieve that the farmer should first be concerned in marketing his produce, and once his organization is able to aid in this it can then widen its field of operations to include the purchase of supplies in large quanif too much emphasis were placed on the buying of supplies, and this end of the co-operative field were allowed to absorb all the attention of the co-operator. ated into combination selling and buying associtions. We are simply opening the subject in this We are going to follow out thise line thought on coby meu in a for fore ishles, and a frank discussion



operation on the part of the agriculturists of this counParliament, and is ever to be placed on the basis which it deserves.

The Horse Demand Should Improve. The statement is made in an article referring to the progress of the Percheron Society of America, $\$ 112,000,000$ and mules to the value of $\$ 23,000,000$ were exported from the United States during the sixteen months ending the first of January last, and that this amount of money was more than that received for all horses exported from that country durof the time mentioned. That this has been a good thing for the horse business of the United States is shown in the same letter which states that at the present time good, draft geldings are selling on the Chicago market for from $\$ 275$ to $\$ 325$ eath. We be-
lieve, notwithstanding the fact that the Canadian horse market has been dull and draggy for the past year and a half, that the very fact that so many horses have been taken out of the United States, and that horse stock is scarcer in that country at the present must have, eventually, a stiffening effect upon the market in this country. It is stated that the British army has all the horses it will require for some months to come, but even so the very fact that so many horses have been taken out of productive enterprises in United States and in Europe, will, in the end, surely have the effect of increasing demand and raising the prices of the horse stock in this country. However, the horse that will be in demand will be the best type of breeding animal or the heaviest and cleanestlimbed drafter. The Northwest is already looking for breeding stock in the East, and prices are a little etter and sales somewhat increased now as compared still wow mionths ago. The Canadian horseman portion of why he was not permitted to do a certain in connection with the returns for stock exported from the United States. However, horsemen in this country who have the right kind of stock may yet have their innings and may yet find ready sale at even higher prices than those paid for horses for war purposes. But they will have to get a higher price to pay them opens fang and caring for the horke show our readers that while the horses have not been taken from Canada they have been taken from this continent, and eventually when things right themselves the places of these animals must be filled.

The Lack of System.
Lord Shaughnessy, in an address given in Montreal took a very sane viewpoint with regard to recruiting and in industrial centres the situation in the country 500,000 men, a very severe draft would be necessary on the working population of this country. Already it said that the West is calling for 10,000 men to assist in seeding and harvesting the 1916 crop, and other industries are beginning to feel the loss of large that under the lack of system, towne seems to be system, many men, he of more aking care of their failies and perkio at home and patriotic purroses a pard paying for Red Cross the same papes a pereage of heir incomes, helping to keep the armies supplied with mayhap ion, have actually donned the uniform and are in fraining or at the front, while others, not so necessary spared, but who have not heard the call, remain at fourteen of por of every fourtcen of our population, it means that unless our universal enrolment should be adopted. Most readers will agree with Lord Shaughnessy when he advised that battulions already authorized should be brought
up to full strength before others are auther officered at needless expense to the country no one in Canadu but believes that Canada should age in this country are each and all ready of military share as soon as it is clearly pointed out to them what
their duty is. National efficiency means that the
largest number of men should be raised for the war at the smallest possible expense to the country, and that at the same time business and industry in thi country be kept at high-water mark by retaining is it the men absolutely essential to its welfare.

## Did He Count the Cost

 A cable despatch records that during the firs German's fired 200000 great batle of verdun the calibre, but that the number of projectiles discharg by the French was not so great. Not reckoning the wearing out of guns under such terriffic strain, the cost of those two million rounds is calculated at no less than $\$ 25$ each or about $\$ 50,000,000$ for ammuni tion in four days, and the battle went on inter mittently for a couple of weeks. The total on one side alone is, therefore, almost beyond conjecture and this is trivial compared with the human destruo tion of some 200,000 Teutons killed and wounded Is it possible that such frightful results ever entered into the calculations of the Kaiser before he let loose the hellish dogs of war? What compensation can he ver hope to offer his deluded and outraged people for the program of blood and fire, the like of whicb was never staged before in the history of mankind?Government Owned Enterprises. Whatever diversity of opinion maxy be entertained regarding the principle and practice of government
ownership and operation of public utilities, the gress of provincial hydro-electric enterprise in Ontario and the growing mileage of railways under direo tion of the Dominion Government shows steady ing the concurrence of the public mind upeg the subject. According to comparatively, recent data
given in "The Christmas Farmer's Advocate" given in "The Christmas Farmer's Advocate" statistics, Canada had in operation a total of approxs mately 31,000 miles of railroad, and of this mileage according to the statement in Parliament the othes day by the Acting Minister of Railways, 4,057 milea
of road is now under government operation. It wan furthermore encouraging that he was able to report in its history sonial had experienced the best year ending this month of $\$ 1,056,510$, after making allow ances for equipment and renewals out of revenue. There was a marked increase in traffic through secur ing better connections from the West and in other
provinces, without which such enterprises are serious provinces, without which such enterprises are serious augurated on the government railways for the two
years ending Dec. 31, 1915, as compared with the years ending Dec. 31,1915 , as compared with the two years before, shows the following decreases: 30 fewer persons killed, a decrease of 33 per cent; 401
fewer persons injured, a decrease fewer persons injured, a decrease of 27 per cent.
Another feature of the statement which, in view of all the trying initial circumstances, will be regarded as hopeful, was that the first twelve months' operar tion of the National Transcontinental Railway in-
come and outgo would about break even come and outgo would about break even. From 26,173 cars of grain were delivered at Fort William by the N. T. R., about two and one-half times that handled the previous year. In, connection with the
still more northerly enterprise under way, the Ministes still more northerly enterprise under way, the Ministes
expressed his confidence in the successful navigation expressed his confidence in the successful navigation
of the Hudson Bay and Straits for "several montha" in the year, but he was less vague regarding expenditures to date upon the Hudson Bay Railway and terminals a mounting to the tidy sum of $\$ 15,466,304$.
The Minister thought it would serve a useful purpose in opening up territory of considerable agricultural value, prospective mineral resources and fisheries, but it will probably occur to most people that the country has already a plethora of such undeveloped Quebec Bridge is to be ready for use by National Transcontinental trains by the for use by National when finally completed the outlay would reach about $\$ 27,000,000$.

## A Few Facts <br> Facts

I wonder if there is any way to make the gentlemen whether they investigate the doings of the shell committee or not? They might prove the charges of disprove them but their findings would have so little effect on public opinion as it is forming that it would
not be worth taking into account. It is the same with all the other big matters that our big men are discussing. The plain people do not understand them and are not trying to understand them. Their attention is wholly taken up with things that they do understand and they are forming their opinions on evidence that
is within their own experience. During the past fem weeks I have visited many parts of Ontario and every. where I have found the talk to be the same. Because drepard the opinions that are being expressed very dangerous I am willing to take the responsibility of
turning the light on them. In doing this I shall deal
only with facts that are within my own knowledge and
I am willing to be held accountable for every statement I sfiall make. I find that a strong opposition to the war and to recruiting is developing and it is not because of any alleged mismanagement in high places. The arguments in support of this opposition are in by those who are accustomed to viewing matters in a large way, but everyone who has studied the formation
of public opinion will realize that they are the hardest of public opinion will realize that they are the hardest arguments to answe
re men who are unfit for service now being raised there jected, but who are drawing more wages while taking a training that is useless, than they could get in any other occupation. I have taken the trouble to secure the having them examined by a duly qualified medical examiner I must say that the accusation against them
appears to be well founded. I know that two of them appears to be well founded. I know that two of them
are many years past the military age for recruits. I that one of them was rejected by a medical examiner for one battalion and then offered himself to a county battalion where the examination was lax and was
accepted. Cases of this kind are matters of common accepted. Cases of this kind are matters of common
talk in all parts of the country and the people who will be taxed to pay for this useless training regard it as inseparable from the work of recruiting but it must not be orgotten that the amounts involved are really large to the people who are complaining. These men are drawing were employed as hired men on farms or as unskilled workers in the towns and villages. Few people can
realize what it means to have millions of dollars wasted tn graft but everyone knows what it means to have who know how people talk in the country and thos small towns can realize the deadly effect of this kind of possip. The people see what they regard as graft and the military organization. A careful medical inspection would at once clear the air on this point and it would do
more to increase respect for the soldiers who are honestly offering their services and to free our army of the suspicion of graft than all they can do in Ottawa. When the people see graft that they can understand they with a suspicion that puts a damper on all enthusiasm for recruiting.

Another matter that provokes much criticism is the going training. While I have heard of recruits from times I have not kept a list of the cases so shall confine myself to cases of which I have absolute knowledge because of the tragic consequences. I have made a before they enlisted. As nearly as I can racquainted the present time I knew twelve boys who were friend of my children or sons of my friends. Of these, two are already dead without having gone to the front. One latives went to see himg rom meningitis and his rewas on a fair way to recovery and returned to their bonves. A short time later they got word of his death. The other died of pneumonia and his parents received notifying them of his death. I do not assert that the that this is my personal experience and I can furnish In this connection an illuminating letter appeared in the soldier who complained that when the boys suffering from colds mentioned the when the boys suffering whom they were obliged to report in case of sickness they received scant attention. The Star also reported thatafter animportant review in Toronto which happened monia resulted and one soldier died saw in the same paper a photograph of days later commanding officers at a review and they were provided with doormats to stand on. Evidently they knew the dorm. Surely ofting chills while reviewing troops in a exposed in this way while in training. Wher boys to be our boys.

There are other complaints of the same kind that dicate what the plain people are talking about. have made my observations at the poing about. must draw recruits and funds to prosecute the war These are the facts in which people are interested be their pockets but as they affect the lives of their sons nly the rumble of of distand inefficiency at Ottawa ar natters. If the people give their compared with these want to see it miss-spent before their eyes and above all unnecessary danger Mat their boys are exposed to that require urgent and immediate attention. matters who are bearing the burdens of the war and to mothers Whose hearts are sore these matters are infinitely more
important then scandals involving men of place and
title. Here is
the foundation of things. Later on it may be meted people at this time when Canada is fighting for her life. letters as believing in put myself on record in these the one in which we are engaged I need not further discuss that phase of the subject. I have no hesitation the government to get five hundred will not enable Moreover, the insulting attitude assumed by men. recruiting officers towards those who have not enlisted is rousing much resentment. Of course I am not blind themselves as insulted who are most willing to regard selfishly refuse to make sacrifices of cases those who do not realize the danger in which we stand, or even if they do they are willing to let the work of defence and while they of patriotic funds be attended to by others activity caused by the unexpected tions and supplies. The great trouble is that becani there is no properly organized method of recruiting those who are selfish have good arguments to offer for ful consideration. No one who gives the subject thought done in such a way as not to recruiting should be power of production. Behind this outstanding fact kinds of people are sheltering themselves, If a authorities would make it clear just who is entitled to home the selfish would be divided are needed most at much suffering and anger would be avoided. But this

## Nature's Diary.

A track which is easily distinguished from that of any other bird is that of the Ruffed Grouse, shown in
Fig. 1. As can be seen, the outer and inner toes out nearly at right angles, and behind each track is little tick where the foot has touched the surface of the In Figs. 2 and 3 we harward.
likely to be seen as spring approaches which are much more Skunk. Fig. 2 shows the tracks left by this animal
$\rightarrow-1+-1+-1$

## $\longleftarrow$


-


Fig. a-Dlagram abowing how to locate an animal that has made e

in walking and Fig. 3 in galloping. In walling th
tracks of the hind leeet fall on those of the fant obliterate them, but in galloping the tracls of the fron Fiow 4 showen tuose of the hind reet.
often towards sppring than earlier in the winter that the Raccoon. In this illustration the tracker raat left as the animal bounds along. In walking the tracke of the hind feet fall on those of the front ones.
Fix. 5 is a diagram show
which has made a maze of crossing oand an anima wich has made a maze of crosing and re-crossing
tracks. To try and follow such a maze of tracto
form practically impossible, particularly as our own tracko
 lows:-Make a wide circle and count the number of
times the trail croses this circlo circle an odd number of times tic animel is withes thi circle, if an even number of th sititisnot. In whis haseane the trail crosses our first circle (marked C.i.) three times second circle animal is u in the circle. Next make \& this case the trail times, and consectuently the animal is within this sever On making our third circle, (C. 3.) we find circle trail crosses it six times and we know that the animal ie not within the circle. It is therefore of no use making circle (C. 4.). We find this one, and we make anothed by the trail and therefore the animal is within it time sequently we make another circle within the last. this case our last circle (C. . .) is crossed three times b) by the black dot at the to the animal which is indicated that we are sure to flush it. In Fig. 6 we ha
We see the tracks of a Varying written in the snow the left, and then suddenly ending as if the animal had for at the point where the tracks end we see wing the air which from their spread we know to be those of the Goshawk, and we can read that the Hare was caught i he middle of a bound by this large Hawk and carried ofi. This studying of tracks and trails, this reading and interpreting of stories written in the snow mend to all who love out-door life, as a pursuit com is not only most fascinating but will furnish a lot of
interesting information.

Studi s in Political Economy-III
Editop "The Farabr's Advocatb"
for himself on the frontier of civilization a hom obviously select a spot which, all things considered seems to him most suitable. Here he will his home and apply his labor to the raw materi about him so as to gain a livelihood for himself and family. He will have no rent to pay because th land is free. Therefore, making due allowance for in the shape of tools, etc., he will get the full product of his laber. of theres, will be no problem of distribu tion, except in so far as his earnings are dependent in part upon capital in whose production other peo ple had a share. And, if we suppose the man in question to have started without any capital, th Now, suppose that a second settler comes along
His range of choice would be fmied by the fact that the most favorable land or location had been alread) site, having in mind the desfrability of living beas the first settler. It would now be mutually advan tageous for these two men to co-operate, both by the combination of effort and by the division of labor Exchange would spring into being, and difficult taslo
might be undertaken by the two working together. In many ways the total product of the two men working together in this simplest of communities would ex ceed the sum of what each would produce if working
independently. Each has evidently increased independently. Each has evidently increased the has been produced, has been produced socially. Therefore the problem of distribution arises in its simplest form How is it to be met? Consider this question: What advantage has one man over the other that is not Answer that question and you will skill or industry? the solution. What is the answer? Obviously this The only advantage which the one possesses over th other is that derived from the superiority of the firs location. This aside, each is free to reap the full possibilities of co-operative mutfally increased by the advantage which the first site possesses over the second is equally divided, the two workers will be placed
upon an equality with respect to getting a just re urn for their labers.
The significance of this will be seen more clearls Suppose that a third settler next comes along H. will have to take third choice. He will take the best land available, with due regard to the importance of
being reasonably near his neighbors. The addition
of a of a third man to the community will add still more
o the efficiency of the labor of all, because it
quantity and quality of labor on the third location
becomes quite appreciable. It is represented by what the third man would give the first man if he could get Girst choice instead of having to take third. In the cerminology of Political Economy it is called rent or rent in popular usuage which includes both rent of sround and interest on capital, as, for example when one rents a house and lot.
What will happen when several more settlers come? The addiition of each worker will, in ways whiche amiliar to all, increase the average efficiency of labot n the community. To that extent all will be bene itted by the growth of the industrial organism. But, though all may benefit, all do not benefit equally to an extent represented by the rent which thei holdings can command. Rent is thus seen to depend aot upon the labor of the possessor, but upon the competition for land, which becomes keener as the
community grows in size and as the efficiency of labor community grows in size and as the efficiency of labor tude is determined according to the well-known law of supply and demand.
Crowth the inquiry farther yet. The continued growth of the community will, by and by, need shop, etc., together with that achustrial a blacksmith which these involve. By and by a railway reaches the little community center. All these advantages benefit every member of the community; but they do not benefit all equally. There is a growing disparity upon those near the community center and that con ferred upon those farthest away. For example, consider the advantage which is possessed by the wheat grower who has but one mile to haul his wheat to Consider also other similar advantages of proximity to school andchurch, storeand blacksmith shop, etc. The sum total of all these advantages of location is measured by the Ground Rent. They render labor applied at one and to this exfective than labor applied at another, vented. we set out to the problem . Now we set out to solve the problem of just
listribution, that is, of determining what conditions listribution, that is, of determining what conditions
will ensure to each worker as much as he justly earns, but no more. And we have arrived at justly earns, but no more. And we have arrived at a point where
we see that the problem of Rent is a disturbing factor in the situation. We have traced the origin and growth of Rent, have discerned its nature, and have seen its effects in preventing the just distribution of wealth. We must now digress for a brief time in my next letter.
Brant Co., Ont.

## THE HORSE.

## Better Horses Wanted.

 At a recent meeting of the Board of Directors fee on imported horses was increased to $\$ 100$ per head, taking effect July 1, 1916. The object sought isand it it is believed this high fee will have the desired effect. Provision is further made to refund $\$ 85$ of the $\$ 100$ paid by importers, on horses that are good enough to win at fairs recognized by the Percheron Society of America. It is believed this action will
effectually bar inferior horses, without interfering effectually bar interior horses, without interfering
with the importation of really valuable animals. Members of the Percheron Society have already been advised of this action, and breeders generally appear to be heartily in accord with the new ruling
Forty-one fairs and expositions
Forty-one fairs and expositions in the United
states were accorded recognition by the Percheron
society Society for 1916 . Provision was also made to to recog. aize, with a special classification, all Cane dian fairs
that obtain recognition from the Canadian Percheron that obtain recognition from the Canadian Percheron Association. Strong exhibits of Percherons at the
lall fairs. will benefit the Percheron breed, and all
breeders. Special attention is directed to the breeders. Special attention is directed to the Futurity
Stakes-for colts foaled in 1915 -to be held lowa, Illinois and Ohio State Fairs, and the Interna-
tional in 1916 Be 'or these shows, and help to demonstrate that America Records in the office of the Percheron Society
thow an active trade, particularly as to sales made by Sreeders. Prices are gradually growing stronger on
zood Percherons, but demand is slack for poorer Kood Percherons, but demand is slack for poorer sorts.
More men are ceeking stallions of exceptional merit. at to head pure-bred studs, than at any time in the
last three years, and more confidence is expressed oy purchasers generally
More than 112 milion dollars' worth of horses,
and over 23 nillion dollars' worth of nules, have been
 ash received, han we witained for all hroaster total in mules experted during the preceling 16 years, and our ship-
nents show tho signs of lessening. (ioved draft keld-
 ressimistic comnente of conntry horset, huypite the
zenerally surek ton kive, for sellish: recensers, who
 pannot secure matificiory prices at home should clul,
concther, and ship their dratt geldmbs direct to the lange
markets. Country horse buyers are doing all they
can to hammer down prices on drafters in the country for their own profit, and are having fair success The war horse demand keeps business going, and if a big drafter is passed by often enough, the farmer who owns him may take the price offered. For this reason,
direct shipments should receive The urgent need-more apparent than
fore is for men to assemble small but select bands of mares, ahsolutely sound and right in every way,
breed them to really high-class sires, and develop and show the colts. From such hand-picked studs, pure-bred mares. This is precisely what American
breeders are most urgently in need of no opportunity is a great one.

Wayne Dinsmore.

## Lameness in Horses-XIV.

Bone spavin is a very common cause of lameness and unsoundness The condition is commonly called a Jack," but why it should be called Jack rather
than Tom, Dick or Harry is hard to understand. In order to be able to diagnose a bone spavin when lameness is not present, it is necessary that a person be
a good judge of the different conformations of the hock, as an apparent roughness that may be a spavi in one horse, may be merely a peculiarity of congenital conformation in another. A bone spavin may be defined as an exostosis (a bony growth) on the hock, the anterior surface of the joint, but may be on any the a
part.
Ca
Causes.-Like ringbone, splint, and other bone diseases, bone spavin is usually, but not always, is set up in concussion In this way inflammation is set up in the cancellated tissue of some of the bones
of the hock. This extends and involves the compact tissue, an exudate is thrown out, the articular cartilage is destroyed, the exudate becomes ossified, (converted into bone), and two or more bones become It is often claimed that of a kick or other injury, and, while it is ressult that such may be the case, it is very improbable, There is usually a congenital or hereditary predisposition, and where spavin is present if the progencan be definitely traced, it will generally each side that some of them suffered from spavin. This pre disposition may exist simply in the general conformation of the hock, weak, small hocks being more same time there, be said to be immune.
Symptoms.-The typical symptoms of bone spavin After standing for a greater or less length of time, the horse, when asked to move for instance, when asked to stand over in the stall in the morning, after
being in the stable all night-he will tread simply with the toe of the affected limb, and move quite lame If backed out of the stall he will step short and lame. and go on the toe for a variable distance; in some or even farther, and then to practically if few rods, sound, and will continue to go sound until not quite to rest for a few minutes or longer, after (which he


Two of a Kind mameness is constant. The articulation below this,
late the one below this is also gliding but not extensive while the lower one-also gliding - has very little mo fion. Motion in either or both of the lower two may be removed by anchylosis without causing noticeable
alteration in action, but anchylosis of the third from alteration in action, but anchylosis of the third from
below will cause a stiffness. Fortunately it is usually the lower articulations that are involved. As stated reatment should be directed towards terminating the process of anchylosis, and this can be best done by
counter-irritation in the form of blisters or the firing counter-irritation in the form of blisters or the firing
iron, followed by blisters. Unscrupulous or ignorant vendors of medicine claim to be able to remove spaviin and leave the joint in a normal condition, but whes we understand that the whole bone is involved, and the articular cartilage destroyed, we can readily per-
ceive the fallacy of such claims. In quite young ani-
will start off lame again. There is practically no ases ually an enlargement which can be noticed. It carefully observe both hocks. If an enserver should
If angement of greater or less size can be noticed on the hock of the
lame leg, (usually on the inner and lower part of the enlargement joint), and there is an absence of a like istic lameness noted be present, there is no difficulty in diagnosing spav:n. Unfortunately, however, we
do not always observe these definite symptoms, lameness does not always disappear on exercise, but in the majority of cases it decreases Neither is there there is a roughness resembling spavin on each hock which may be a congenital conformation and quite within the region of soundness. In some cases lame
ness is present before any enlargement can he noticed and in some cases, especially when the true hock joint is involved, there is permanent lameness and no enlargement. This is called Occull or blind spavin, diagnose. It is not unknown for a well-marked spavin at any stage. When spavin lameness is lamenese hut cannot be definitely diagnosed, it is good practice, or a floor assistant to hold the horse on level ground flexes the hock for some time, say a minute, and as soon as he releases the limb, have the assistand cases, cause him to go quite lame, with the charac teristic lameness of spavin, for a few steps. But where the typical sympays satisfactory, and, in case examiner must judge by the general symptorked, the and the absence of apparent causes of lameness in ther parts of the limb. It will be noticed that while bone spavin, there are many cases in which diagnosis is very difficult and requires a person of experience formations of hock, and the different kinds of con ness caused by the disease.
ment should be directed other bone diseases, treat process of anchylosis, the towards hastening on the of the inflammation and lameness. In all cassidence is a union of two or more bones into cases there are really four articulations in the into one. There most being called the true hock joint where extenstive hile somewhat extensive is simply gliding in motion, reduced
notable Mr. Gould Bury King
tandsome front of him
oinner, Coli ang him ve In four
Company's Companys
has old for
Last year the year b the Royal
thorse was gueror, a The stal
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saw J
mals repeated blistering will sometimes effect a cure, (when the lameness disappears we claim a cure, we
do not expect to remove the enlargement), but in the majority of cases it is necessary to fire and blister. As with ringbone, the lameness does not always cease as soon as the action of the operation ceases, but may continue for some months. If lameness has not dis appeared in ten to twelve months aiter the operation,
it is wise to fire agaie. We find some cases that cannot be cured, and the prospects of a cure cannot be determined by the size or situation of the enlargement. We simply have to operate and wait develop
ments.

London Shire Show a Great Success. Editor "The Farmer's Advocate": buge success, farmers from all over the Kingdom crowding the Agricultural Hall at Islington for two
days. There were 527 entries for the $£ 2,230$ offered, the figures being the entries 1915 , quality far better than that year. Indeed it was one cions best shows for years, and a lot of new reputacould now only., find " The progress a breed is making is said to be marked by the excellence of the class for yearling colts, and
if this saying is correct, certainly Shire horse breed good right to be satisfied with the progress that their breed has made and the position it occupies. For the yearling colts are just a trifle above the average, being remarkable. The Edgcote Shorthorn Company' winner, Edgcote Conqueror stood out from the rest conspicuous for his width and substance, in which he cakes after his famous sire, Babingley Nulli Secundus. Dagnam ole colt with warden Dagnam, a colt with very great promise, and if not thas substance and character, and may best him some day.
ooth numer-old stally and for quade a very strong class, Sundridge Coming King, a vastly improved sort, year. John Rowell's second-prize colt, Bury King ellent feather.
generally the case, numerically the strongest, in the reduced to 25 by the preliminary examination. It is aotable that all the horses sent to the veterinary in pectors were returned sound. Mr. Whinnerah and Bury King's Cham at the head of it John Rowell's Bury King s Champion, which has grown into a very trandsome horse, and evidently has a great career in winner, Colin MacIver's Blaisdon Draughtsman run ing him very hard. Denby Collins was a very good
third with Primley Freeman, which made a brilliant how.

Company's famous horse Orfold Elye Edgcote Chorthorn company's famous horse, Orfold Blue Blood, was in Last year he was only placed fourth in London, but the year before he was about invincible, winning in the Royal Lancashire. A powerful and promising queror, a black with a strong look of his sire, Danes eidd Stonewall.
Ler ten years old, was another very 16 hands 2 inches, our and unan entry of 42 . First prize went to Messrs. For${ }^{*}$ well in his life. Indeed, he was, if anything trifle too forward in condition, a very good fault at
this time of year. Sir Arthur Nicholson's Champion pion, made a good second, and the third prize Chamine quality, size, and substance, in Jupiter, a horse of in London last year, but seemed rather dwarfed by
the two placed in front of him. ludged by Mr. Ibbotson and Mr. Gould, A. Grandage
won with the evergreen Gaer Conqueror Seldom has such a good lot of yearlings been
sathered gathered together. Dan Massey's Crumleigh Lady though she had not much in hand. In two-year-olds'
I. G. Weiliams' Pendley Royal Princess, which has ane prize-winning record, won, but a good second was
J. H. Aplely's fine mare Bradgate Pearl. Three-year-
olds, numberid ring formbered final awards. Premier honors went to the
Edgcote Shom thorn Company's handsome mare Fine Feathers, which has an almost unbeatene record. She
mon a little cleverly from Whitley's Primley Fascina-
tion, of a brood mare. In four-year-olds on the Edgcote
Shorthorn (omntany wol Queen; A will-known winner was third in F. W.
Griffin's Boro Brilliant. 1. G. Marlia under 16 hands, five years old and over,
power in as won ath a mare which shows as much
the same apt, 16 compass as is possible. Mares of co same age, 16 hands and under 16 hands 2 in.,
Athens, which was fourth in Londor weribbed Maid of

In mares 16 hands 2 in., it was a very near Ann. Lady Snelston, Whitley's Lorna Doone and Williams Westminster's big, handsome mare, the Duke of Merle, third
Shorthorn Cor cup for mares went to the Edgcote Primley Fascination Whitley's Lorna Doone, with Snelston Lady weserve; and the champion and challenge cups were won by Lorna Doone, with Snelston Lady reserve. The junior cup, ior stallions, went to Rowell's Bury King's Cham-
Fion, with Mond's Sundridge Coming King reserve; ion, with Mond's Sundridge Coming King reserve;
the senior cup, for stallions, was won by Edgcote the senior cup, for stallions, was won by Edgcote
Shorthorn, Company's Orfold Blue Blood, with A. Grandage's Gaer Conqueror reserve; and the supreme championship went to Bury King's Champion, with The King and Queen, with Princess Mary, visited ful owners amid much cheering and National Anthem.
H. R. H. the Prince of Wales has signified his willingness to be elected President of the English on his Cornwall farm. He has also boeds the type tional Pony Society, being deeply interested in Damoor penies.
The Shire
upon an advertising Society has decided to embark
The sale of pedigree Shires, held in connection with the Show, made history. It is true the aggregate realized has been exceeded, but the general average has not been equalled. This works out at $£ 1574 \mathrm{~s} .5 \mathrm{~d}$. years to come younger breeders will have occasion In 1916 at the result of the first that was expressed in 1916 at the result of the first day's sale. Forty-five

H. R. H. The Prince of Wales.
To be President of the Shire Horse Society of E
were sold at prices ranging from 1,600 guineas, averaged
$£ 20715 \mathrm{~s} .8 \mathrm{~d}$. The leading prices ${ }^{2}+$ tren $£ 20715 \mathrm{~s} .8 \mathrm{~d}$. The leading prices in three-year-old stal
lions were: Mrs. Gardiner's Sandside sold to Mr. Garton at 520 guineas; Mr. Boddington's
Highfield Friar, to Mr. Body at Wythes' Copped Hall Chamberlain, to J. Somerville at 400 guineas; and John Measures' Snelston Gentle-
man to the Holderness Live Stock Association at the The four-year-olds ranged from 1,600 guineas, Fernihough's second-prize colt, to 320 guineas.
In older stallions, top price was 250 guineas for
the seven-year-old Brantham Blend, owned by A. 11 . the seven-year-old Brantham Blend, owned by A II.
Fernihough, and sold to D. Morgan for Ireland.
The top piced two-year-old was 4.40 guineas for the Duke of Westminster's sixth-prize winner, (atterall
Drayman, 2nd; and 300 guineas were paid for John
Measures' Iourn (hampion Stud (o. Fillies and mares were not in such demand for the first-prike winner, owned by Dan Massey,
and sold to $S$. Boddington. The top-priced two-year-
old was 250 ) old was 250 guineas for sir Berkeley Sheffield's fourth-
prize winner, Xormanhy (hessie, sold to Mr. Barday. paid hy Mr. Heddington for Orforld Black (airl, to Cardiner. Four-year-old mares sold up to 400 guineas
for F. W. Griffin's Boro' Brilliant, to Mr. Alcork Brood mares ranged to 250 grillant, to Mr. Alcork
Brar Billingfold
Symphony to Mr. Withers. The best price for the
geldings was 110 guineas (wice.

The general averages were: Yearling stallions
$£ 98$ for three; two-year-olds, $£ 1758 \mathrm{~s} .9 \mathrm{~d}$. for twelve; three year-olds, £209 5s., for twenty-one; four-year-old 1s. 8 d ., for six; five-year-olds, and above, $£ 138$ 1s. 8d., for eighteen. Fillies and mares, yearlings,
$£ 118$ 8s. 9 d . for five; two-year-olds, $£ 110$. $\begin{array}{ll}2118 & 8 \mathrm{~s} .9 \mathrm{~d} . \text { for } \mathrm{five} \text {; two-year-olds, } £ 110 \text { 19s., fo }\end{array}$ four-year-olds, £191 12s. 6d., for four; five-year-olds and upwards, $£ 11410 \mathrm{~s}$. 1d. for twenty-one.
Sixty stallions averaged
$£ 19516 \mathrm{~s}$. 4 d. ., and the Sixty stallions averaged $£ 195$ 16s. 4 d ., and the
sixty-three mares and fillies, $£ 129$ 2s. 6 d . Alblon.

## LIVE STOCK.

## Constructive Breeding

Several weeks ago Prof. H. Barton, of Macdonald
College, delivered an College, delivered an address before the Canadian
Ayrshire Breeders, assembled in annual convention in Toronto and the theme of his discourse convent "Con structive Breeding. The advantages that accrue from the application of principles enunciated by him in the time are well oxemplinied by a sale of cattle column of this isew. The ownerg of the herd in mention have for twenty years spared no efforts in their endeavor to develop a type of Hereford to con. form with an ideal which they established in theip mould. To accomplish this they chose the blood that used it to the extent of its possibilities. No bettel example can be cited of constructive breeding than $\$ 3,642$ six sons of one sire were sold for an average ol were sidd 24 sons and grandsons of the same sire $\$ 1,766$. This the same farm at an average price ol tion of a principle throughout a number of vears, the selection, and retention in the herd, of desirable founda. tion stock, and mating with a purpose or ideal in
view. Prof. Barton described constructive breed view. Prof. Barton described constructive breeding
under four heads, which were: 1 , the use of the bull under should produce the desired results, or, in more general terms, a good bull; 2, the extended use on
service of the good sire: 3 , the elimination of all in service of the good sire; 3, the elimination of all in ferior stock; 4, praservation and extended use in the
herd of the good females. Uniformity of blood, he said, would make for a uniformity of type and to said, would make for a uniformity of type and to
obtain a herd of improved merit the absolute destruc. tion, for breeding purposes, of all inferior stuff was

We have in this country, some bulls that are known by their offspring. They are the sires thai
should be carefully managed, and have their hay of usefulness prolonged. A Gainford Marouis Butterfly King, a Hobsland Masterpiece, or a Brighi Prince, will make history in their respective breeds,
but only after they are dead will the country and the but only after they are dead will the country and the men who owned them realize their true value. Thomal
Bates, with a continuity of purpose, used the bull Belvedere even upon the sire's kin to fix a quality is the herd that was outstanding in the sire, and which Bates wished to see developed to its fullest extent As a result of persistent and intelligent breeding we
have the Duchess
Oxford have the Duchess, Oxford, Waterloo, Cambridge
Rose, Wild Eyes and other tribes which to this day inherit milking proclivities and a gaiety of carriage along with their beef conformation. History say Bates, was mercilessly exacting in the matter of
regular breeding, condemning to the knife his cheicest Duchess or Oxford, Cambridge Rose, Foggathorpe,
Wild Eyes, or Waterloo, if she failed to breed within what he deemed a reasonable time, either as a heifer or since she had last produced a calf.
None were more careful than the Booths. They,
too, set an example in constructive breeding which may well be followed at the present time. For over a century the Booth family bred Shorthorns along
systematic lincs, and now we have the tribes known as Cherry Blossom, Fairholme, White Strawberry, Anna, I sabella, Bracelet, Moss Rose and others which are the results of selection of blood, and proper matings
It is said that "when fresh blood was admitted was not new and untried but well-proved patrician
blood, and had undergone further probation before final acceptance. heard of the Scotch tribes Viole Venus, Broadhooks, Orange Blossom, Brawith Bud Lancaster, Lavender, Sicy, Lovely and others? The
quict, persevering patient character of one man was responsible for their type, and that man was Amor
Cruickshank, of Sittyton fame. We have cited cases particularly in one breed out plan has been followed by single breeders with not venture on the perilous ground of in-breeding
unless they first acquaint themselves with the re. sults that usually accompany such a practice. Thes females, the retention in the herd of the good and to a degree of prominence in live stock circles. It cad not be done in a lew years. Decades are. .equired accomplished at their sale on March 1. For ove attain to that ideal in Hereford type which finally brought results, and at that sale the blood of one sire Was dominant-Repeater. their minds and strive to attain it. More "Construc
tive Breeding" is required by the live stock industry

## Our Scottish Letter.

 February has been a very wintry month. We mendous hail, and rain without failure. Farm work is generally very far behind-perhaps six weeks in arrears and the prospect of overtaking this with depleted labor ranks is far from bright. In England great efforts are being made to introduce female labor into jutdoor farm work. Lord Rayleigh, the famous of argon, is an extensive landowner in Fssex His Carmis are managed by his brother the Hon. Mis Strutt. His lordship keeps a large number of farms in his own hands, and also conducts profitable dairy business in London. He has made a strong effort to utilize female labor, in the way indicated, and ap-parently with a large measure of success. There is, parently with a large measure of success. There is,
of course, nothing new in the employment of female labor at nothing new in the employment of female
latdoor work on the farms in Scotland. Here we have long been familiar with it. Perhaps the unique feature in Lord Rayleigh's venture is the class of women whom he is interesting in the subject,
and who are going out to the fields. Iudging by the and who are going out to the fields. Judging by the
photographs which have been published of them, they photographs which have been published of them, they
seem to be rather a jolly lot, and to treat the business so far as rather a good joke. It is to be hoped this way of regarding it may hold until the hored over. After that possibly there will not be the same dearth of labor on the land, but meantime women are 18 much needed there as in the munition works. There, by all accounts, they are putting men to shame by
the extent of their output, and the deftness with which they handle the tools and otherwise peform their duties The Bord of Agriculture is pushing the female labor question for all it is with They have a regular propaganda with this end in view, and in the eastern counties of England the idea has caught on. Labor on the farms is certainly scarce, In the judsment of country will require to the writer everybody in this ive more plainly than they have done if the and to be brought to a speedy and a successful issue February is the great month for the sales of young
bulls. All the pure-breeds having their orth are represented at these sales, and the past of all breeds. Average prices are all trade for the best and the demand, especially for Shorthorne up-grade, quite unprecedented. We seem almot to have got back to the days of the New York Mills' Sales, only
it is no longer Bates but Cruickshank tribes that are it is no longer Bates but Cruickshank tribes that are
in the ascendant. Nobody bothers about Duchesses or Waterloos now. What men want are Clippers, largon is painful to listens Royals and Claras. The members the Bates craze, and what came of it. One members what old "Amos," would think of it all. He kept his head while men were going mad over Bates
tribes, and built up the Shorthorns "tribes, and built up the Shorthorns of Aberdeenshire
"tittle Red Cruickshank type," as some men called them who did not like the importations of James in Canada. But the "Ouaker's catile" Sityton blood stay, and to-day the risk is that they may be destroyed through the efforts of over-zealous friends just as the Rates tribes were.
Reviewing the February sales briefly, it will were sold. The Aberdeen-Angu order in which they were soid. The Aberdeen-Angus had first innings at average was up nearly $£ 10$ a head for 392 bulls and beifers, as compared with the figures for 1915. The best herd average was made by Sir George Macpherson
Grant, Bart., whose figure was $£ 192$. 1 s. . Grant, Bart., whose figure was $£ 19211 \mathrm{ls}$. 5 d., and his
highest figure $£ 462$ for highest figure E4 M $^{2} 2$ for Jason of Ballindalloch, which
as purchased by J. Ernest Kerr, of Harviestoun Dollar. Mr. Kerr's own average was almost as good
is that of Ballindalloch. It was £ne average of $£ 15313$ s. was made bya young herd thery of Walter Wilson, at Inchgower, Cullen, Banffshire Mr. Wilson is a son of the famous Shorthorn breeder the late John Wilson, Pirriesmill, Huntley. The young man bids fair to excel with the blacks, as his father
did with the red, white and roan. I. M. Marshall, of Bleaton, Blairgowrie. is rapidly building up a aine herd. 'He made an average of 612011 l . 6 d . In Ayr, has a fine herd, and he made an average of $£ 113$ 11 s 6d. for his lot. He had first prize for the best
zroup of three, making an average for them of $£ 156$ prize, made an average of $£ 25771 \mathrm{~s}$. for his three. He sold a second one in the three for for his thee. He Me
Macrae, of Stenhouse, Thoruhill, in Dumfriesshire.
Two new herd of Two new herds of A. A. cattle have been s.arted this
rear, and one of them is in Dumfries-shire ?wned by J. Bryce Dluncan, of Newlands, Kirkine-
hoe. Once would have liked had Mr. Dumcan Ip the Gallow,ys, but the oher hack pollo shave greater
 ion that Angus breed, in may be of imterest to men- is most wasteful, and it should for he colerated proces
 classes were well filled, but even their merits did not experienced Donald Maclennan, was absent. Unhappily this splenand the Perth a Scotsman is not in good health buyers from South America made things very lively, and home breeders were not slow to operate and to bid high prices. The gross average was up $£ 29$, as
compared with the figures for 1915 . Four hundred and thirteen young Shorthorn bulls made the splendid average of $£ 9310$ s. 8 d . each, as against $£ 64,4 \mathrm{~s} .1 \mathrm{~d}$. with this grand total. Millhills herd in Perthshire owned by Duncan Stewart, tops the list with an average of 65692 s . for five. Next comes the very old
herd of Lady Cathrart at Cluny Castle. Monymsk herd of Lady Cathcart at Cluny Castle. Monymusk,
Aberdeen, which with six head had an average of Aberdeen, which with six head had an average of
$\leqslant 352$ 2s. One of the youngest herds, that of $J$. I Mowbray, of Naemoor, Rumbling Bridge in the very heart of Scotland, came third with an average of
$\mathrm{E} 277 \quad 13 \mathrm{~s}$. 4d. for nine head The Mescrs Mains of Sanquhar, Forres, who are among the
leading breeders in the north, had an average of $£ 267$ leading breeders in the north, had an average of $£ 267$
15 s . for four. This herd contains a famaus family of Zoe's, a branch of the celebrated Clippers. They of J. Napier Reynard. at Manuel, in West Lothian, came next with $£ 244$ 13s. for three, and William Anderson, Saphoek, Old Meldrum, Aberdeenshire, came in next with
Ross-shire herd of Balnakyle. 17 s . 6 d. for six. The famous James Cameron, had an average of $£ 2122 \mathrm{~s}$. for five. $£ 267$ 15s. for two Individual Millhills had the first prize group of fuled very high. made an average of $£ 861$ each The sen and hese was from Cluny Castle, and they made an ayroup of $£ 483$ each. The third group from Naemoor far surpassed this. They made an average of $£ 66110$ s. each, and the highest price of the sale $£ 1,62710$ s.
was made by one of these, Velox of Naemoor, a wonderwal made by one of these, Velox of Naemoor, a wonder-

Some Good Youhg Shorthorns.
highest price was made by one of the Millhills' lotbuyer who pot Vo, which went at $t 1,575$ to the same figure was $£ 945$, paid for Captain John Mçillivray's All of thesent, the reserve campion of the show, porters. The fourth hishest fise wh Arventime exporters. The fourth highest figure was $\operatorname{Ex} 19$, which Augustus, which happily remains at at home. After Galloways appear tame indeede Highlanders and were making records, and altogether, the Springhill
sales of 1916 have Cattle of that class do not wholly monopolize our thoughts these days. A notable experiment in
feeding Ayrshire bullocks was made by Sir Mark McTaggart Stewart, Bart., Southwick, Dumfries were not considered good enoush to be kept as sires of Ayrshire stock, were steered and fed at home as bulin the beginning of the month, and made tho at Ayr
 But this is a dellusion. Bullocks Batchers be fed to profit. markets they are in theme and in the weyt country




Shorthorn sales in Perth without precedent there. pion at the Royal at Nottingham last sum.
The bulls were undoubtedly of unusual merit. The mer, and is a wonderfully thick, short legged.
classes were well filled the even their merits did not well-coupled bay horse with very

well-coupled bay horse with thick, short legged.
has the usual hire profusion of good action. He hii has the usual hire profusion of hait on the legs,
and in some things is rather away from the Clydes and in some things is rather away from the Clydes Lorna Doone, which won the same hossrs. Whittey's Mr. Rowell has won the supreme honor last year former victory taking place thirty-one years ago hit 1885, when he had the Elsenham Challenge Cup with Prince Willian. He has also been twice reserve foi supreme honors, and for a long time he held the receore for a
which shire stallion price with Bury Victor Chief sold by Mr. Rowell. The hhire Horse Stcity wae done a world of good to the Enclish breed society has Shire Horse Show attended by the writer was that 1886, thirty years ago. He has been at many since and the difference between the horses of last week and those of thirty years agoo, so far as certain external of colors there tas been marked indeed. In respect three greys and two chestnuts were seen last week thirty years ago roans, chestnuts, greys and blacke bays, browns and dark browns were the This year colors, and there was no excess of white markinge in respect of soundness also there has been a great improvement. The type, however, remains very time it almost seemed as if there was ago. For a fion to the Clydesdale idea, but this was nopproxima. last week. The very rough-haired horses were ver much in evidence, and there were fewer of the clean hard-boned sort that a Scotsman likes to see. week, and the Aberdeen show in the following week have been hired for 1916 , than 169 Clydesdale stallione 1917. There is every prospect of a great shred for keen competition.

Record Returns from Hogs. Early last week hogs reached an unp price
market.
on
On
Toronte
Tuesday. the high-water marl of $\$ 11$ per cwt. live
weight, weighed off can was reported. It payo was reported. It payy to pigs at that price
Suppose it takes 400 Suppose it takes 400
lbs. of meal, or ita equivalent, to make
100 lbs. of pork, thin 10 lds. or pork, him
would mean, say, 800
lhs. of wheat for a 200 . lb. hog. At $\$ 1.25$ pe
bushel the wheat would be worth \$16.66. At one dollar per bushe it would ee wortb
$\$ 13.33$. But the piqu
was worth $\$ 22$. He paid $\$ 1.65$ per bushel
for 800 lbs , of wheat Suppose the pig way
fed on barley and it required 800 lbs . or its equivalent. He paid $\$ 1.39$ per bushel for the barley. Suppose he was fed on
oats. He paid 88 cents per bushel for 800 lbs . or 28 bushels, of oats. Suppose he was fed on a mixture cents per bushel for the mixed grain and the feeder had the manure to pay for the labor. If the owne was an especially good feeder he may have made pound of pork on less than four pounds of grain. Some experiments carried on last year indicated that it could products from his dairy and swill from the kitchen Surely pigs at such a price must have
than market prtce for grain consumed.

## Butterfly King Dead

A few weeks ago the Shorthorn bull, Butterlly King, owned by the Alberta Government Demon stration Farms, died of paralysis at the age of the yarr
He was reputed to be one of the best, if not the best
 excellent sind sing, conformation, and he proved himseli ab
his progeny are showing milking proclivities as well as prod beef character. Another
bull of considerable merit has been purchased by the Aherta covernment to take up the work where it was Steers that get a liberal allowance of roots or silage
from now until May from now until May will be in better condition to go
on to grass than will cattle that are fed on dry rough. ade and chop. The loss will not be so severe in con
secuence of the change if the animals are prepared by




and
John
Jorold

## Keeping the Eggs in Three Baskets

One man who has adopted a system in his farming
chat embraces, in the main, three distinct lines is W C that embraces, in the main, three distinct lines is W. C.
Shearer, of Oxford county, Ontario. In one sense the Shearer, of Oxford county, Ontario. In one sense the
lines are distinct because they are different, while from another viewpoint they appear so interdependent that the system might be called a machine, and the cows, hogs and chickens, which produce the revenue, each a
cog in the big. wheel. The farm is not a large one. It is the ordinary size, or perhaps smaller than thousands
of farms in Canada for the railroad ate up a few of the of farms in Canada for the railroad ate up a few of the
100 acres and $131 / 2$ acres are down to permanent 100 acres and $131 / 2$ acres are down to permanent
pasture on account of roughness. This leaves about pasture on account of roughness. This leaves about
$\$ 2$ acres of arable land. Because of the similarity of conditions under which Mr. Shearer farms to those existing very generally throughout the country, a few
ideas gathered by a visit to this Oxford county homeideas gathered by a visit to this Oxford county home-
3tead should be of interest to those who till the land 3tead should be of
and feed live stock.
Literally speaking the cows do not depend upon the swine end of the business, yet in one sense they do, for
the dairy returns would not be so gratifying if the the dairy returns would not be so gratifying if the
skim-milk and whey were not fed to something that could use it to some financial advantage. The chickens also receive skim-milk in winter, and they too are util-
izing a by-product of the dairy which is converted into actual and profitable returns. The cows of course depend upon the fields for their sustenance, but they also depend upon the hogs and chickens to assist them in commuting into currency a part of their production.
Whole milk is not always a finished article. Its casein and butter fat are, when manufactured into cheese and butter, but from the process there is still a by-product milk or whey. These still belong to the farm. Mr. Shearer is a swine enthusiast and he annually sell.s
from 50 to 60 finished hogs. However he keeps his from 50 to 60 finished hogs. However he keeps his
eggs in three baskets. Let us consider these baskets eggs in three baskets. Let us consider these baskets
in the order of their importance.

## The Dairy Basket.

The dairy business on this farm is linked up with in addition to the young stock, Frem 15 to 18 cows milk is sold in the summer to be manufactured into cheese, but the whey is brought back home. It is the aim to have a number of cows freshen in the fall of the
year. Their milk throughout the winter period is year. Their milk throughout the winter period is
separated, and the cream is sold to the factory to be made into butter. This leaves a quantity of skim-milk well-bred-up lot of grade Holsteins, but The cows are being used for fo andationstock, and is now entered in the
R. O. P. test. A number R. O. P. test. A number of heifers are due to freshen in the spring, in order to provide a very appreciable
quantity of milk throughout the factory season quantity of milk throughout the factory season. The $\$ 2.35$. This short paragraph reveals the source of part

## In The Piggery

As previously stated from 50 to 60 finished hogs are sold annually. To produce a part of this stock, feeding shotes are purchased to make up the required aumber. The taxes have risen "on account of the stock that an additional litter may be ready next fall when the taxes are due.
Mr. Shearer entertains two unusual ideas rext breeding and feeding swine. To obtain a moderately large litter the sows are not bred until the second day
in season. When bred later than this he claims the in season. When bred later than this he clatims, the
litters are unnecessarily large while breeding prior to that time will result in litters too small.
With reference to feeding, it is the practice to give claims in this connection thice each day. Mr. Shearer Aours for the stomach of the hog to perform its work. is thoroughly digested would only force the stomach to evacuate its contents before the processes of digestion, the absorption from the intestines, whed. Furthermore, of meal daily are given, is interfered with, and the is the practice the hog excretes undigested material. It morning and again in the evening, thus dividing the periods, day ad night, as near as possible, into twelve to entice the smaller wogs to dith meal on them, in order six months in the summer, whey is given as the mid-day It is the custom on this Oxford country farm to wean
che pigs when from eight to ten weeks of age. They
are not denn or their rations. They are allowed to run into a small
pen and there are fed in all pen and there are fed in a trough of their own. The
writer saw on 1 arch 10 , a litter of ten pigs which were
being taken from weighed over 50 Its., and the average would be above
$45 \mathrm{Ibs}$. . Not until the pigs weigh 40 lbs . or more, as an
average, are average, are they weaned. As soon as these 10 pigs
would take to extras they were enticed to their separate
troughs troughs and there given half a pail of warm skim-milk
brought to alout the consistency of cream with it some middlings and a little oream by cake. They
were not given one-half pail of this twice a day was fed, this was poure? into the trough for the wother ases; this was poure $:$ into the trough for the young
the other pen and help the sow finish her allowance. The little pigs also got a few mangels at noon. will weigh weaning time up to the period when the young and milk make up the After this more chop is introduced of the ration. middlings are omitted, or replaced by a chop consisting of two parts oats, two parts barley and one part of fall wheat (by measure). About one-half pound of oil cake is fed to each pig. The practice is to mix the chop and onl cake and allow ait to soak in water for twelve hours. At feeding time the warm skim-milk is poured stirred. This raises the temperature of the mixture and makes it very acceptable to the hogs. At thise and also what pulped mangels they will consume at noon are given with some dry meal scattered on them.
Up to 120 lbs . of weight, the pigs are not fed heavily on grain. When past that stage the finishing period are considered then grain is fed more liberally. They are considered finished when they weigh between 200
and 220 lbs . Cleanliness and dry pens are emphasized. Plenty of dry litter is provided and the pens are cleaned out feed and oil cake, which is laxative, keeps the swine healthy and seldom is a case of crippling encountered.

## The Economics of Feeding

The economy of this feeding practice may be summed up in the following brief points: The daily returns day. The same 29 hogs over a two-weeks period put on gains at a cost of $41 / 2$ cents per pound. Nine out of the 29 hogs weighed 65 lbs. each; 12 weighed 120 lbs. each, and 8 weighed 198 lbs . apiece. It will be seen that there was considerable disparity in the weights of swine put on gains at greater cost than do young ones swine put on gains at greater cost than do young ones,
Mr. Shearer expressed the opinion that the heavier hogs might have cost $5 \frac{1}{2}$ or even 6 cents per pound of gain. This of course would signify that the young pigs were makind ary cheap gains. On the day of our visit to this faet hogs we quoted at $\$ 10$ to $\$ 10.15$ f. o. b count points, That sound good to me,"
said M. Sheare I I have about a dozen that are ready togo," Ical reatember one year, "hecontinued, "when was then obliged to up almost all the feed I had and cost of $4 \frac{1}{2}$ cents per pound of gain includes the skim milk, ald mangels as well as all home-grown feeds a market prices. There are of course a few items not entering into the calculation such as interest on investment, etc., but the majority of the items concerned are
included $\$$ in the estimate. Unfortunately farmer hogs do not always sell for $\$ 10$, b. country points, but when they do there is a fairly good margin

## Chickens as a Class of Live Stock.

Another branch of the live stock industry on this same farm, is a flock of approximately 200 Leghorn ing a revenue of $\$ 2.40$ per day. A flock of 78 pullats was reared last summer in colony houses, in the fields. Last fall they were drawn up to the buildings and placed in a suitable location. The houses are $6 \times 8$ feet; with shingle roofs and dressed pine and battens for sides. They cost $\$ 16$ each. Seventy-eight pullets have been wintered in these three houses, and their record has been November, 330 eggs: ' December, 567 eggs; January; 833 eggs: February, 1,262 eggs, They are increasing in production as they approach the spring season, but they have been a very profitable side line throughout the winter. In another pen a bunch of old hens and younger pullets have wintered. They have not layed so well, as the three pens of pullsts but there have been reached the hundred mark. These chickens are fed $21 /$ ounces of grain each per day; one-and-a-quarter ounces in the morning and again at night. This, of course, is not weighed to them each time, but it was weighed accurately at first and subsequent feedings estimated.
At noon one pail of scalded chop and middlings with a
little oil cake added is fed to the entire bunch. Oats, barley and fall wheat is the grain fed. Plenty of mangels are placed in their runs and they receive one pail of skim provided. "The hens are beating the hogs," said解 them a very profitable branch of farming, and I intend to increase the flock in size.

What the Three Lines are Doing.
The gross income per day, during the winter, hae been calculated by Mr. Shearer as $\$ 8.35$. Five milking cows return $\$ 2.35 ; 29$ feeding hogs yield $\$ 3.60 ; 190$ hens yield a revenue of $\$ 2.40$; It is the aim and purpose, come up to an even $\$ 10$. It has been found that these three branches of live stock can be worked very well together. The hogs and chickens require skim-milk, especially the hogs, and when it is available it is not difficult to get results from the two lines mentioned. The dairy is largely a branch unto itself but by making good use of the by-products it can be made all the more

## The Farm Practice.

It might be interesting to note-something of the hered to covers a period of the system of rotation adfield is one year in hay, the next year in pasture, at the end of which it is ploughed up and sowed to mixed grain. During the fourth season it is manured, planted the same field in oats cleaned. The fifth season sees mixed same field in oats or barley and seeded down. The mixed grain referred to grows from the following mixt-
ure of seed: One-and-a-half bushels Oats; $3 / 4$ bushels barley, and about 4 lbs . of flax. The flax is sown from the grass-seed box, care being taken that it is not harrowed too deeply into the soil. This mixture is grown for the hogs chiefly. There is almost too much barley resulting grain cows, but by chopping one bag of the resulting grain with a bag of oats the proportions in the chop are almost correct. The flax in the mixture helpe

## THE FARM.

## A Farmer on Growing Corn.

Editor "The Farmer's Advocate":
Preparations should by this time be under way the year's corn crop, and it perhaps will' not be amis to give my opinions on the subject. One of the first seed. When obtaining seed be sure to get a good suitable for the locality. If the growing season it not long enough late varieties will not ripen properly and are thus likely to be damaged by frost. Golden Glow seems to be a good all round variety, while Wisconsin No. 7, although an excellent sort. is some what later to mature. Farmers who have consider Only the very best ears should be selected, and when purchasing it is always well to buy on the cob You not only see what you are getting, but it ie Yon in the proper condition to test for germination. You have only yourself to blame if you fail to get a good stand of corn through the carelessness of plantwhen there is no great rush, will give yours good strong seed that will grow evenly in the field. The operation of testing is by no means difficult, and, as it has been described from time to time in these columns is not necessary to repeat here. The corn should not be shelled until shortly before planting. but before
shelling break off the butts and tips to ensure seed of even size so as to work even size so as to work more evenly in the planter.
Also the kernels on the tip do not make as good seed. These should be saved, however, in case there should be a shortage of seed
Almost all classes of soil are suitable for corn, but it should be in fairly good tilth. No crop will do its best on poor land, but there are others that are cultivated land which is warm and well drained I have generally noticed that good, spring plough ing gives better results than fall ploughing. It is
certain, however, that fall ploughing will be better
where the spring work can not be done properly


A Few Good Herefords at Pasture.

Spring ploughing should not be left until the land is
too dry, or the work will be very heavy, and it will be next to impossible to prepare a fine seed-bed. On
the other hand the ploughing ought not to be done whiie the land is too wet, for it will be likely to bake spring ploughing opens the soil, lets the air circulate coat of manure, be turned under, it will be found that the soil will warm up much more quickly than that of fall ploughing. In my estimination this con three-year rotation is practiced this will not be har to get. should be followed with the drag harrow. It
should then be allowed to dry off some on the surroller. that it will not stick when would be conserved as much as possible. The cultivator or disc harrow may now be used to prepare a deep seed-bed. The drag harrow should again be used to smooth off the
surface and break any large lumps. If the ground is soft it would be well to roll again. This may be marks more plainly.

Do not plant too soon. It would be more profit-
able to wait a week for the ground to warm up, because corn will not do well in cold soil. The twohorse planter is good if properly thandled. The depth hand planter, is used, although, with care, good work hand planter is used, and. Where a large acreage is planted the horse planter would be more profitable on account of speed, but small fields up to about ten acres in size will not warrant the expense. Be sure
to plant deep enough. Two and a half or three inches is none too deep. Nine-tenths of the destruction by the crow and blackbird is caused by shallow planting. Also do not leave any corn scattered around; if you do, the birds will get it and look for more. After planting, especially when the hand planter is to go over it with a light, straight-toothed harrow. do not advise harrowing after the corn is up. lieve hilled corn is far better. Larger and bettermatured crops are generally obtained. Also, as the
hoe is not a favorite implement on some farms, hilled corn has the advantage of being cultivated both ways to destroy weeds. But the hoe should not be dis-
carded, not only for the sake of killing weeds, bu the hoe is the only implement that will weeds, but
ground close up to the corn without doing to the young plants. One or two hoeings will b ound greatly beneficial
Cou cannot do the greatest secret of corn growing rain rather than before. Once a week is none to often. At first work deeply, then shallower so a to avoid doing any injury to the rootlets. It is well
to throw the earth up to the hill in the last two of three cultivations. Those who grow for silos will know the propes
time to cut, but for husking Dent corn should b cut when the corn is well dented. After cutting the corn should be allowed to lie on the ground to wilt
By so doing it will rapidly lose weight and be that By so doing it will rapidly lose weight and be that
much easier to handle, and will also keep better in the shock. If there is much danger of rain it would prob ably be better to keep it set up so as not to have tor
much down at a time. much down at a time
Lambton Co., Ont.

$$
\begin{aligned}
& \text { Lambton Co., Ont. K. S. OKe. } \\
& \text { [Note.-We always. harrow our corn to good advan }
\end{aligned}
$$ tage just as it is coming up or a short time after it in through the ground.-Editor.]

## Taking a Tip from George Regarding Spring Cultivation

The morning found the earth enshrouded in a
heavy mist, which, by the time I had completed my up for the seed and the growth of spring warming up for the seed and the growth of spring. About Gire burning through the rising mist; song sparrows burst into melody on every hand, and as I glanced up after finishing the piling of the finely-split summer's wood, handy to the rear of the summer kitchen, I neighbor's big field on the west side of his farm, What was George up to now? There were still to be found small patches of icy snow in exposed spots at the north side of buildings, and occasionally in a north erly exposed, brush-protected fence corner. The spring
feeling had manifested itself in many ways. I had my last year's straw hat on. The hired man was un-
usually hard to separate from his bed, complaining usually hard to separate from his bed, complaining spring chase after dirt, and the safest place on the side of the leaning straw stack in the farmyard, sniffed and moo-ed. The colts in the yard tried the stability of the fence. Young lambs in groups scampered in and out of the open pen, and the old sow came gruntalong, to the head of the lane prospected for early grass.

George Begins Work.
It was spring without a doubt, but the land was
surely not ready for the seed. What could George be work on the land. I had walked over my driest 15 three spots which should be underdrained. If it hadn't been for them I would have been filling furrows that very morning. No, George wasn't filling
furrows. Curiosity is always more irresistible in spring than at any other time. I had my s.ed all large screens and plenty of wind. My harrows were
brought home from the blacksmith shop the day beore, sharp, and ready for the field. A new double tions, and we intended to use four horses and get over
to the ground faster. The cultivator, disc, and drill
were all ready for the field. The old gang plow had been pulled from its corner of the implement shed
and made ready to fill the furrows. Enough millrush. I was ready, but could it l,e possible that In this neighborhood will be the first to start and




By One of George’s Neighbors.
in his grain after. He had purchased a new four horse cultivator and a wide drill, so that he could get along, with his young son to do the chores, with-
out a man. He planned to do with his four-horse team what two men formerly did with two two-horse Mine offered his services but was rejected and he was or a time very restless, because George's man ex plained to him that soldiering was preferable to farm work, as the farmer never shouted to his man: "Stand at ease! Later, they were not so particular about man got a letter from George's man at the front and offered himself again, and his bad teeth were not such a drawback. He left us to get the seeding and harvest
done ourselves. But we were prepared with the wide oone ourselves. But we were prepared with the wide
implements, and the seed was ready, and the horses we couldn't sell to go to the war, or to go anywhere else, were in good fettle. We planned to ride all the horses when necessary and to to harrows, to change the man go. He felt it his duty, and we were willing last year, and this year we'll get the crop off somehow with the boys from school, and perhaps we can get a man from across the border, or maybe cousin Bill
from the city will spend his holidays helping us this year. But I was speaking of George starting his harrows acres again, got out my four 1,500-pound Clydesdales and went at it. Last year was not a dry season.
i ar from it. But carly on it was dry and the har ing did good, for it liept the last field to be sowed in ing did good, for it lept the last field to be sowed in practice with a friend of mine from the adjoining
county, and he told me that they had practiced it over there for a few years with good success. This
spring, as soon as the fall-plowed land is dry. spring, as soon as the fall-plowed land is dry enough, which have again been sharpened and are ready. I have watched different men filling furrows. Joe
uses the disc harrows, going only once over, but that doesn't seem to fill them up very level. Jim goes
twice over his and makes a better job. I use a twofurrowed light gang plow, going one round on each, crosswise of the plowing. This levels up the dead furrows very well. No one should think of leaving
them as they are. It is too hard on the farm imthem as they are. It is too hard on the farm im-
plements and machinery bumping over them in seed-
ing and at harvesting and left unfilled the furrow
walking right up on the bit when drilling. The seeo seems to feed down better, and, anyway, short-handed delay after the land is fit to work means every day' two per acre loss in crop yield next fall, and we do like get too much with the best of management. bed is particularly mellow and loose

After drilling we give one stroke of the drag harrop cording as to whether two drilling, or crosswise, acwhere a team is following the drill the sar one, and where the field is all sown before the harrowine commences, crosswise

Harrow After Rolling
A few years ago the surface of the sown land was
always left rolled smooth. One spring, George was noticed harrowing a field after rolling, and it happened seeding out a dry year following heavy downpours is grain was up to break the crust which had formed and his crop was much heavier than our field across the real le, lef rolledin the spring. Where the land is is lumpy, or requires packing we sometimes roll befort sowing. Where rolled after sowing we invariably give an extra stroke with a light harrow to leave 8 .
mulch and prevent crust forming, which means re tarded growth and loss of moisture.

## Everything Ready

This year one four-horse team will have to pur of which we could have spared in the winter, ord we hink one or two of them would have made as good army horses as some bought in the United States
However, there was no sale. This spring they wil have to partially pay for their winter's feed. We plan to work them a half day each and push them right
along. The implements are all ready. The seed ie cleaned. I have the formalin ready to treat the seed according to directions published in your columne March 16. I cannot afford to risk smut loss this yeay prefer sprinkling where thoroughly done. It provided care is taken. It is necessary to have the grain thoroughly dry before sowing, and it is some-
imes swollen so that the drill must be set considerably in advance of the indicated amount required. On grain into each bag measure exactly two bushels o ing. When the first bag is sown, I step off the strip and check up on the drill, and if it is not right adjust it. While the horses are "blowing" from time to time
I keep further check on the drill by measuring of what is sown. This avoids the getting of too little bowever, that the man in my absence neglected to check up the drill, and got in only one bushel and a peck of oats per acre on four acres. The field had bees and sickly for a long time, it came on with a rusb
at stooling season and yielded nearly, 70 bushels pe
acre, I prefer to sow from two bushels to two bushele and one peck of oots per acre, about seven pecks of
harley per acre, about two bushels or a little bettes Goose wheat per acre, and where a mixed crop io
grown one bushel of Daubeney oats and one bushet
$\qquad$
$\qquad$
$\qquad$the seed wrut in
For preparing the seedthed on fall-plowed land, I
like the spring tooth cultivator hest. That is, for
$\qquad$
$\qquad$sumper form

the rest of the day. A cart arranged with a hook it


## Fifty Below Zero.

Editor The This a tale of Cold

> Cold that bites and stingsi Cold that chills the nasal ducte

We knew a severe winter was due. Summer had been a gem, the finest, I think, that I have ever experienced.
The preceding winter had been equally so, and the The prececing winter had been equaliy so, and the
winter before that sufficiently innocuous to, put olddistinctly on the defensive. It was time for something to happen-año something did.
I. ecember was innocent enough with only six nights
below zero and 10.5 the lowest register of the official instrument. January set in to make up for it. Dropping to thirteen below on New year s Eve, the mercury register of 26 and a minimum night record of 485 .
Contrary to Grande Prairie precedent, the cold was frequently accompanied by nippy north est winds. of one in the Peace River Country. But it does not
take much of a breeze to make thirty below uncomfortable. We said 455 , We said 48.5 was the lowest dip. That was by
the Meteorological instrument under my own care, but we are favorably situated on high land. A similar
instrument
three miles distant recorded
55 , while instrument three miles distant recorded 55 , while,
unofficial readings at some other points on the Prairie, especially in localities farther east ward, denoted drops to
60,65 and even 70 below zero.
It was a new experience stepping out into the tingling ir that coldest morning. It made one imagine the sensations of an Arctic explorer braving the rigors of of the house, by the strong draft which poured through lop pails near the dor Besides it hater the night before, had been cold all day long, and had set in clear and calm at eventide, giving fair warning of a "singer.
Now, thrity-seven below was the coldest your scribe had ever experienced, and it was with an ex
bilarating admixture of curiosity and dread that he stepped quickly out, closely muffled in cap and sheepskin coat, glanced at the thermometer and hiked for the stable, pig feed in, one hand and milk pail on the
other arm. Many a warning had been heard of these other arm. Many a warning had been heard of these
treacherous, still, cold mornings freezing cheeks, noses and other exposed cuticle before one was aware the parts were cold. lt was prudent to make haste. Forty-
eight and a half below! That was something to write tome about. It was what the people back there would ex etwo-hundred-yards dash, it was almost with a feeling of surprise that no evidence of frostbite could be dis covered. The September shoats scampered squealing creep in their open-air quarters, ready as usual for their feed. The rimee-coated oxen groaned a bit, but took the of their sheaves promptly. The calf bawled and icicles at first, and milking operating under difficulties. The chickens appeared until a very fashionable hour late in the forenoon. The roosters were too subdued to crow. When at last differently at the oven-warmed wheat thrown before liem, and presently hopping upon the roosts for an-
other twent and Few hens laid dur hours reverie in record that a neighbor lad with a hundred birds in a house whose twenty-foot south wall comprised eighteen feet
of cotton succeeded in getting an average of about two dozen eggs a day throughout the month.
a gentle Chinook when for three nishts the fed with above 0 , and for three soft, balmy days we made haste to replenish water cans and cisterns, chop out pig troughs
Gilled to overflowing with frozen slop, clean stables and
 pared. It was indeed.
Nor' the enight of the nineteenth down came a howling Nays wester to the tune of twenty below and for nine long
dayh mean mostly nights-a varying but incessant
northwest never higher daft was accompained by temperatures On four different days thelow and ranging down to 45 . Frozen manure again pilied deep in stables. Range
stock refusect to go to the "settings" and straw had to
cows had to brave the daily ordeal of a mile walk to
co to water through the stinging cold and back against that
cutting northwest wind which a man muffled to the eyes could scarcely face. Horses can do well with that regimen. The cold is hard catte fail sadly under out suffering from thirst. Those who hauled water getting low and in some cases snow had to be melted for hauled a tank load two miles. It was not all ice when I arrived. Bridle bits dipped into water would instantly congeal an eighth of an inch of ice. Even dogs suffered.
When out doors they would holding up one paw out of the snow. Settlers who had not provided themselves with coal from the local mines
burned half a cord of stove wood a day. Many fired day and night. The penetrating power of that bitter-
cold air is great. The smallest chink admits a keen draft and every cupful of outside air reduces a hundred cupfuls of inside air about one degree. Forty-eight
below zero is seventy degrees of frost. No wonder it soon chills exposed parts of the body. One keeps his
mouth closed instinctively. Every breath seems like a stream of liquid air coursing through the nasal chamber. The cold became monotonous. It got on one's
nerves. Swine became quarrelsome, horses crabbed and their owners grouchy. It was easy to understand to surly gruffness of Arctic exploring parties tested ever end? Three or four days is the usual limit of a Grande Praire cold snap but this ran away into the but seemed to have lost its power. Often the amo phere was dull with a falling hoarffost. And ever that biting breeze. That was the unusual part of it things considered, about the worst winter since they had been in the country.
At last, one morning we went out to find it calm and about joyously, coats carelessly open, caps stuck hustled on the top of our heads, mitts on or off as was handy The cold spell was broken. It felt like spring. It yet to come but it was wind-still and the mercury rose The middle of February it turned mild and remained so to the end of the month. For a week it hardly evie night. Soft, genial days mild as summer followed right along. The snow-clad Rockies showed clear on
the southwestern horizon. The poultry awoke to life and commenced laying as in springtime cattle roamed ever the fields, gleaning stubble and stem-cured grasses themselves of the fast-disappearing sleighing The river ran high above the ice. House and stable doors stood wide open. The settler took stock and found his worst loss had been pernaps the stiffening of a pig or in most cases nothing more than the frosting of a few in most cases nothing more than the frosting ofo a few people frozen to death on the long trails but that was
due as much to lack of accommodation as to anything
else. It was all over. Our usually fine February-for February is nearly always an incomparably fine month with us-was vindicating its reputation after all.
The cold spell was already a memory. The Grande Peace River District, Alberta. W.

How a School Garden Made Good
During the past few years, agriculture has been creeping, little by little, into our schools, until finally, our work. It now seems evident that inside of a few years it will be one of the most important topics on
our school curriculum. The interests of agriculture may be promoted in many ways, and by no means the least of these is by means of a school garden.
When I attended Normal, school gardening was placed in my mind almost as a beacon light, which, if teaching. This impression was given to me partly by the teacher who had charge of that line of work,
and partly by a professor from Guelph, who spent a day lecturing to us on the benefits to be derived from As it happened, at the school where I have been teaching, the farmer who owns the land adjoining the school kindly offered to allow me to use as much of
it as I wanted, if I would start a garden. Besides He was as good as his word. Late in the fall he plowed a piece of land beside the schoolyard. It
was old sod and very poor soil. The man, who had worked it a few years previous, told me that he could grow scarcely anything on it. The ground was cold
damp and sour. However, during the winter managed to get a little fertilizer on it, and we spread nearly all the ashes from the furnace over it. In the spring, when the snow was leaving, I be
gan to wonder just exactly what to do with the gar
den. I had already written to our Agricultural Repre sentative for a few ideas, but instead of sending me some, he referred my letter to the professor already some, he referred iny letter, to the prolessor already
mentioned, who in his turn, ment a little pamphlet
which was absolutely no use to me at all. A similar
one was already in the school, and it dealt priacipally
with school garden grants. Being thrown, therefore, on my own resources, 1
went out into the garden one evening after four oclock and with a cruple of the boys measured the ground that had been plowed. We found it to be about seventy feet long and about thirty-eight feet wide.
From this I calculated that we could mate eight plots, each nineteen feet long and about five feet wide. Accordingly, next day, I drew the plan
which I had in mind, on the blackboard for the pupils to see, criticize and offer suggestions on. I also had
the pupils make a copy of it to take home to from them The result of it all was the suggestions plan practically as it was. The most tedious part of all our work was the malk-
ing of the paths, and in making them we were at the same time making the plots. We dug them about do it. Before commencing to dig them, we placed stakes at proper distances along the sides, and condug directly beneath the twine, and so managed to get our paths fairly straight, and our plots uniform were each given a plot, and they then began to work This each plot was subdivided into five smaller plots This was done by means of small stones. These ing, add very materially to the appearance of whitenThe three subdivisions on each side of the garden. path were devoted to flowers, and were made a little to vegetables and grain.
freedom in choosing what they were given perfect many of them managed to get a certain amount of seed at home, and, besides this, we purchased about three dollars worth, which we got for two cents a package. Each pupil paid for his or her own seed. and secure their pupis could get their plots ready, the most discouraging period in connection with our garden. For some reason or other, a great deal of the seed never came up, and a large part of what did
come up got killed with a frost that came about the When school closed on the 29th of June, our garden gave every evidence of turning out a miserable failure. However, during July there was a vigorous growth, and by the first more than we hadust, our garden was all and tance it appeared to be one solid mass of bloom, and he odor from the flowers could be detected for rode on either side. The vegetables and grain were also exceptionally good, and I may say that then for the realize that there was of the community began to interesting, and something instructive about a school garden. People came from different parts to see it, and I think they were favorably impressed with ite pparaire, and something there to learnething there 0 admire, and something there to learn
We had six school plots
class, and instead of giving each of the little folks whole plot, I gave each one of the small subdivisions. These plots we were enabled to have the school plote. These plots were for all the pupils, and each pupil
had to take his or her share in the work of plantin and looking after them. We made two large schoo plots in the middle of the garden. Each of these was equal in size to two of the other plots. In one of these we planted Grimm alfalfa, and in the othe the Ontario Variegated alfalfa. These are supposed
to be two of the best and hardiest strains of alfalfa, and it was interesting for us to note that, althoug the Grimm alfalfa is supposed to be. the better of the two, the Ontario Variegated did mich better for
us. I think that every farmer should grow us. I think that every farmer should grow alfalfa, having it in the garden to introduce it in the neigh borhood, because a school garden should be instrueIn one of the small subdivisions of another school plot was about four feet square, and our purpose in having it was to find out just exactly how many pound of onions we could secure from a plot of that size. ten poe weighed them we found we had nearly
ten pose had sold at five or six cents pound, the sixteen square feet of land would have would bring $\$ 1,361.25$. cents. At this rate an acre In another of the school plots we planted ger-
aniums. Practically every leaf on them was frozen about the 24th of May, and for some time there was nothing but the bare stalks. However, during July
they also began to grow, and they bloomed from about the first of August until the first of October. We also had a school plot of gladiolus, and they were exceptionally good. A great many of the other flowers were able to pick pansies on the first of December We should have had rose bushes, shadc trees and vinee planted in the school plots, but we did not get them placed. When these are planted in the school garden, they can later be transplanted in the school grounds.
Thus far I have been describing the plots. I might now turn to a question that is frequently asked, "Does a school garden pay?" To this my answer is that it undoubtedly pays when once started, but it
teachers who will undertake the work．I had to do
work that no lady teacher could do，and few work that no lady teacher could do，and few gentle－
men would want to do．Nevertheless，I think agriculture is to be taught in our schools，it must， to a large extent，be taught by means of a school gar－ den，and those who are advocating the teaching of agri－ culture，should see that every school is provided with ing out of this plan should be supervised，but not done by the teacher and pupils．
As last year was the first year that our school had a garden，it was impossible for us to have everything as we would like to have it，but there should not be
so much trouble in the future．As yet，we have re－ ceived no money and practically no help in any way from the school section．Had we received a little such encouragement，our work would have been much less difficult and our results possibly much better． Nevertheless，we have a sprinkling can and plenty of
tools with which to work．We bought the sprinkling can and the other tools were given by the pupils， While agriculture may be taught by means of a school garden，it is by no means the only way．On teaching agriculture，this is by no means the only way in which it may be made useful．In fact，it
is almost impossible to say just in how many ways a school garden may be made useful，because it can serye a great many purposes．It furnishes topics for composition，provides problems in arithmetic，pro－ of literature and geography lessons．In shobject may be correlated with practically every subject on our school curriculum
Looking at it from anpther point of view，the achool garden has a direct bearing on the character is good and beautiful，and a respect for the which is good and beautiful，and a respect for the property
of others．It teaches him to be neat，tidy，and in dustrious．He learns to experiment，and in experi－ menting he learns to be economical and systematic． And last，but by no means least，it introduces the and teacher．$C$ ．Ont．

## A Letter To Germans in Canada．

 Editor＂The Farmer＇s Advocate＂：Being of German descent I would like to say few words through your paper to the German peo， ple of our Dominion．I may say at the outset that Therefore，you will see I am a Britisher，and，as such， Germany has no direct claim on me．I have no doubt that there may have been times when Germans in Canada thought that their feelings have been hurt， it may be by some remarks which have been made，
either through the press or by some speaker express－ ing his feclings against the German race But when
we stop to think of the awful deeds which the Ger
man soldiers bave connen man soldiers have committed against the women and
children of Belgium，and of their unrighteous methods of fighting，and also in murdering innocent people
with sulmarines and zeppelins，is it not human nature to speak out against such diabolical crimes？And German people．We as a（coman people have always
in this country been respected until this war com－
menced． Gernan army，a feeling crreatef announg semmes of the









## Never Piles Manure．

I would venture a few lines in the discussion o farmyard manure，a subject which we have much in－ terest in，and consider of great importance．We have
been spreading our manure on the land during the winter season as much as possible for the last 25 years and are still finding it the most satisfactory way of handling it．I have no litter carrier in my stable It would not necessarily make any difference in taking
the manure to the field direct as it is easy to have a sleigh placed so as to dump the carrier into it I use a large boat which has a capacity of a cubic yard，but
$\mathbf{1}$ often load much heavier than that I often load much heavier than that．It is left in the
stable，usually behind the young stock，and the manure stable usually behind the young stock，and the manure
is gathered into it from horses and cattle，a good load very second day and taken out direct and ead on Mr．Pethick in his article complains that when he
practiced winter manuring，his land was kept wet and was sticky and manuring，his land was kept wet and 1 think that his land needs underdraining，or he has applied too heavy a coat of perhaps rather coarse manure．
Either of theso conditions has a tendency to produce such results．We usually apply the manure where the ground has been plowed in the fall，and is intended for corn and roots or spring grain，attending to the part
for roots late in the fall or early winter We harrow the corn and root ground as early as possible in spring as one writer has said，it spreads it better．It also breaks the crust that is forming and stops evaporation． manure whet maker any difference in spreading out the have had some of the best results where spreat we deep snow．
Our land is quite rolling for the most part，yet we often notice that mid－way down a slope，just where
the manure was shows the good effect and no farther．We don＇t worry about the wash off．
Again Mr．Pethick claims that the manure runs away water is fooding inere is a break in a drain where the but I think there would soone might be a little loss， quite certain that there will be no loss by filtering through the soil to the drain．
I recall an instance where a test of the drain water was made to ascertain whether there was any manure the other hand the soil is hungering for something has lost in the way of fertility and readily catches absorbs and retains all the plant food material that comes in contact with it in an available form．Well－ think．In land that is fairly well under－drainedpear to water from the melting snow and rains carries fertility from the manure into the soil，the sulsoil is draining continually，allowing the surface to gather the fertility from the water as it filters downward．
If，as we have often heard
of our stable manure is in the liquid part，then any
delay by putting it in heaps must be a great loss and the
oftener it is handled the greater the loss． An experiment was conducted some years ago at
the Experimental Farm，O）（tawa，about 30 years ago if in making a heap of stable（fresh）manure，placed where was in that condition that it allowed cult，when＂ith a
spade like choese，that two thirds of the weight was
lost．We have triced at big and litille，execept when we have to maked all heas， fields．
Huron
R．C．Mcfiowls，
Substitute for Pipe Wrench
winter cause a great loss，and after the snow is of the ground is too hard to receive the water，it，with speak of what I have seen when this manner of put－ ting out manure has been practiced even on put－ is what our writers running down the ditches．If this manure in the winter，I claim they save in one way but lose in the other

Robt．Harvey．

## THE DAIRY．

## A New Long－Distance Record

 pleted a record of $20,072.9$ lbs．milk， 819.95 Ibs．butter fat in one year，at the Ontario Agricultural College
Farm．This constitutes the highest known record for are but four rows in Canada，and，moreover，there Jersey，that have produced more butter－fat in and on in the Record of Performance．This cow has carried a calf for the last six months of the year．She wa five years old at the commencement of the test，and was bred and raised at the College，being a daughter
of Johanna Rue 4th＇s Lad 2105 ． Dus．brang the year she consumed a total of ，1，753．3 lbs．bran， 440.4 lbs．oats， $1,032.4$ lbs．brewers＇grains，
494.1 lbs．cottonseed meal， 73 lbs．gluten feed， 32.8 lbs．wheat，a total of $3,826 \mathrm{lbs}$ ．of concentrates， 0 consumed $12,650 \mathrm{lbs}$ ．silage， $5,560 \mathrm{lbs}$ ．mangels and 8 ， 956 lh he hay，mostly clover，and some second quality alfalfa．The total cost of her feed for the year，including the eight weeke
she was dry previous to calving was he was dry previous to calving，was $\$ 134.92$ ，at
market prices for feed．The value of the fat market prices $\$ 270.58$ at market prices the fat pro－
d．ced was the year．Value of skim－milk at 20 cents per hun dredweight was $\$ 38.10$ ，making a total return o Her milk was sold for $\$ 1.60$ cost of feed of $\$ 173.76$ ． on this basis the profit over cost of feed was $\$ 186.29$ This cow was fed in the stable the year round and received no green feed of any kind．Her highest day＇s milk was 76.8 lbs．in the seventh week of hes
lactation period，and the lowest 40.8 in lactation period，and the lowest 40.8 in the eleventh
month．Her milk for the last day of the year was 49.3 lbs．Fxcept when in season or when a was of milkers was unavoidable，the variation in her yield from day to day was very seldom more than one pound of milk．The year＇s work of this cow along with some，others at the College Farm shows that it
is possible to get exceptionally good records from twice a day milking，provided regular care and atten． tion are given．
O．A．C．，Guelph．A．Leitce

Spare the Proven Sire from the Block．
ber of becent shipping slay in one small town a num． at hutchers＇prices，and were destined for the block． type and conformation were concerned，and should there were several splendid animals of dairy and beef
type．A number of these bulls had excellent conforma con，and were descendants from a long line of noted
ancestors．But，at about four years of age or just at a time when their offspring were proving the ability
of the sire to transmit his good qualities，they were young and untried animals．The usefulness．of a bull
does not cease at four years of age．In many cases his real value is only becoming known at that time．
Large stockmen realize this and and at the head of the herd for seven or eight years．If， owing to his daughters coming to breeding age，the usually bought by another breeder and and thus，spared
from the butcher＇s block so long as his ucefulness lasta The owner of a small herd often has a splendid bull， come to breeding age，and so disposes of him to the average herd rather than a soung animal？ than would have to be paid for a vearling．Using these older animals would probably decrease the de－ mand for young bulls．It is believed that it would be

A Scarcity of Rennet Extract May Be Prevented.
Cheese making is a very important industry in
Canada. The manufactured product is valued at
about $\$ 22,000,000$ a year. After supplying the home Canada. The manuacture product is valued at
about $\$ 22,000,00 \mathrm{a}$ year. After supplying the home
market, Canada exported, in 1914, about $145,000,000$ pounds, which, at the prevailing, price at that time,
reached the value of nearly $\$ 19,000,000$. This industry reach meant much to dairymen of this country. Cheese
has mer factories have been built wherever an adequate sup-
ply of milk could be secured. Consequently, the ply of milk could be secured. Consequently, the munity for all the milk he could supply. With the
monthly milk checks coming in, the farmer was furmonthy milk checks coming in, the farmer was furwhich could be used in purchasing stock or making needed improvements. Besides receiving a fair price
for the milk there is returned to the farmer a byfor the min the form of whey, which has a a value.
product in the
Pasteurized whey is claimed to give good results in Pasteurized whey is claimed to give good results in
feeding hooss, and is sometimes used for raising calves,
but should be carefully fed. Whey is usually valued at about ten cents per hundred pounds.
There may be an abundance of milk, the best
of ehuipment in the factory and a ready marke of equipment in the factory and a ready market for
cheese, but if there is no rennet extract available the cheese, cannot be manufactured. This important in. dusstry hangs as it were on a single thread, which, if
broken, would leave the industry stranded. broken, would leave the industry stranded. Rennet extract is essential to the "anufacturing of cheese as
it is used to coagulate the solids of the milk into that it ibstance known as curd, which is subsequently marsubtance cheese. No other substance has been found to take its place. The main supply of rennet has been secured in Europe and the supply appeared un-
timited, consequently, on this side of the water, the timited, consequently, on this side of the water, the
rennet extract was not manufactured in any great was sounded throughout this country that all cheesemakers should consider the danger of a famine in the rennet supply. The scarcity is impressed upon all
cheese-makers when they find it necessary to pay more than double what they formatly did for the extract,
During the pioneer days of this country, cheese makers secured their supply of extract from the rennet
or fourth stomach of calves, which were procured from the patrons of the factory, However, the home-made
article bad its defects, and when the scientifically article bad its defects, and when the scientifically
produced extract of rennet was put on the market it produced extract of rennet was put on the market it
quickly supplanted the other, and to our present cheesemakers the preparation of rennet is practically a l lost
art. With the European supply cut off, efforts are art. With the European supply cut off, efforts are
being made by manufacturers of the extract to secure
their requirements from farmers, butchers, and their requirements from farmers, butchers, and
abattoirs. J. A. Ruddick, Dairy Commissioner at Otawa, in a circular Number 17, points out that
Ohere is no reason why the supply of rennet could
the bo scured locally if not be secured locally, if farmers and butchers would
gave the stomachs of the calves which are slaught save the stomachs of the calves which are slaught-
ered at the right age. It is believed that many
butchers and farmers could work up a good business bychers and armers could work up a good business
manufacture of preparing calves' stomachs for the
thet. Charles Hansen's Laboratory, manufacture of rennet. Charles Hansen's Laboratory,
Little Falls, N. Y., a manufacturer of rennet extracts,
gives directions for saving and preparing the calves gives directions for saving and preparing the calves
stomachs for this purpose, which are to the effect
that only rennet from sucking or milk-fed calves is valuble. Stomachs from calves fed on . grass or
golid foord are ont good for this puppose. When the
calf is killed, immediately cut out the rennet. leaving a portion of the third stomach attached to it, then
carefuly squecze out the contents of the rennet (coll
 wash it, as that would cause a loss of part of the
ferment, then rinse off any dirt from the outside
and trim off any adhering fat. In preparing these rennets for shipment to a latoratory preparing these are two
methods which may be successfully followed. The one is blowing up the rennets, the other the fresh-
salted fnethod. The former is done by tyin ing at the large end, by applying the string at the rennet, and insert in the opening of the long and neck the the other end a small glass tube, and blow up the
rennet as hard as possible like a foot ball with a string under the tube. Where many rennets
are handlect, it would be convenient to use air pressure for inflating thould As As the lonient, to narre air ne pressure con-
tains but litte of the ferment, it may be cut off after shed, or a warme dry room. If a fan could be used
s.ent qu create a draught it will aid in drying the rennet
quicky, and the process should not take more than a quickly, and the process should not take more than a
week. Thie rennet should never be hung in the open,
expoed to the sun, or in romo that is more than
ordinarily heatect. They should bo thooubly and carefully protected from flies and other insects, while being prepared for shipment. When a sufficient
number of throughy dried rennets have accumu-
lated, let



 tub or hese stomachs, known as the renkt,
may the
disposel
necesear
of preparing the rennet at the factory. However,
Mr. Ruddick recommends that the rennets be sold Mr. Ruddick recommends that the rennets be sold
to the manufacturers of the extract, and as there are no manufacturers of this kind in Canada, he men-
tions the name of two laboratories in the United Sates, namely, Chr. Hansen's Laboratory, Little Falls, N. Y., and Marshall's Dairy Laboratory, Madison,
The directio
and preparing them prior to shipment to daving of rennets and preparing them prior to shipment to a laboratory
Mr. Ruddick does not believe that a home-made ex tract could be used without injury to the quality of
cheese. However, should a cheese-maker desire to prepare his owner, extract of rennetsent it is possible to do so. One good rennet or call's stomach will be re
quired for every 2,000 or 2,500 pounds of milk rennets should be cut into several pieces, and as many as will be required for a day's supply placed in a
tin or earthenware vessel of five or ten gallons capacity tin or earthenware vessel of five or ten gallons capacity.
By having, a number of vessels a fresh supply for every day's use would be available. About one
gallon of pure sterilized water is used for each rennet and a few ounces of salt added to each gallon of water. Cover the vessel and keep in a cool place. Stir
the contents. frequently and give the soaking rennets a good rubbing once a day. The solution should be
ready for use on the third day. Strain the solution through cheese-cloth before using, and add the whole of it to the milk without dilution. After using the
home-made home-made extract for a short time the cheese-maker will soon learn to gauge the proper strength, and govern taken to have containers, strainers, and other utensils coming in contact with the solution well washed and sterilized every time a fresh supply is made.
As the cheese industry depends on the
of rennet extract it appears that on the availability courage the saving of the rennets or calyes' stomachs slaughter a large number of calves for veal might secure a revenue from an otherwise waste product,
and besides receiving pay for their work, would aid furnishing necessary material for the manufacture of the extract so essential in the making of cheese.



Reduce the Cost of Delivering Milk and Cream.
In one cheese-factory district, perhaps there are
others, the patrons prefer to d daw their own supply of milk to the factory. Driving along the road in the
vicinity of this factory between 6.30 and 9 a.m., it is customary to meet the farmers with their one or to or returning from the factory; The rig will usually hodd several of the neighbors' milk cans, but no,
each one must take that morning jaunt six davs the week throughout the factory season. True, from the standpoint of meeting people and exchanging
ideas with the neightors it is a good thine lut from an economical viewpoint, does it pay? The farmer

 draw milk four miles to the factory and return. Where
the distance to haul is more than four mies the forenoon is practically gone before they can get back
from the factory. Even if they should get back by
g oclock the forenoon's work on the farm is interfered 99 o'clock the forenoon's work on the farm in interfered
with. Considering that it takes three hours for a man and one horse to deliver 300 pounds of milk, the co only 100 pounds of milk is sold it would almount to
about 90 cents per hundredweight, or nearly the selling.
price of the milk. These figures are based on a man's price of the mort 20 cents per hoor, and a h horse at
time leing worther
10 cents per hour. Accorling to the prescnt scale of "ages this is not considered too high, and possilly
it
it worh more during the rush seanom. The
would otherwise be left undone, or in other worde much more work could be done when it should be. tory with 3,000 pounds of milk, it would cost, accord. ing to the above reckoning, about $\$ 9$ per day, if each tion thereof. Could not a little co-operation on the part of these ten dairymen save them considerable time which might be used to advantage in preparing dairymen living near each other took turee or our the milk of the group, it would result in a saving o time and indirectly a saving of hard cash. The mill would reach the factory and the whey be returned as better and a more economical method is for dairymen living on one concession or cross road to arrange with
one man living farthest from the factory to draw tll the milk on a route furnishing about a ton-and-a-half of mik. A man would receive fairly good wages for himself and team if he was paid 8 or 10 cents per hun.
dred pounds of milk. On most concessions there is at least one man so situated that he can do this work. and it would mean a saving of 20 cents or more pet hundredweight of milk to each patron on the line. In many districts this method is followed, but there part of the dairymen would result in a saving of than dollars during the year. It would appear that most dairymen could profitably co-operate in delivering their supply of milk to the factory, or in hauling cream to the creamery or shipping station. Reducing the
cost of marketing increases the net returns from the

## HORTICULTURE.

## Orchard Aphids.

In recent years aphids or plant lice have become
serious pest in the orchard. They are "on the job" serious pest in the orchard. They are "on the job"
early in the spring and if not attended to will cause no small amount of damage. The following article e if Entomologist for address of W. H. Brittan, Provincia Association of that province. Aphids are discussed interestingly in this article
Among the is aphids or plant lice (Aphididae) take a prominent place All our a ahids are small species, none being more than one-guarter of an inch long and most of them much haller. They are more or less pear-shaped in form ing beak of varying length. Aphids have many wonder ful habits and the life history of many species is very as stem mothers, that reprod into female forms know young, without fertilization by the males. From these spring several summer generations which reproduce in
the same way In the fall true male and female fer are produced and the female deposits her eegrs, whict carry the species over the winter. Many species do
not spend their entire lives on one plant, but have not spend their entire lives on one plant, but have
what is known as a secondary or alternate host to which they migrate and spend part of their lives
Three species of aphids injure the apple in Nova
Scotia, viz: The rosy apple aphis, the green apple Scotia, viz: The rosy apple aphis, the green apple
aphis and the woolly apple aphis.

The Rosy Apple Aphi
This aphis gets its name from the fact that the wing
less forms have a rosy or pinkish tinge. The stem mot hers that hatch from the eggs vary greatly in color green. The hinder part of the body is tinged with with The young of these forms are pinkish and like the stem mothers are covered with a whitish powder.
hhiny like tors:- The eggs are small, black, oval and the twigs or even the trunk of the tree. They are not so noticeable as those of the green aphis, being more elsewhere. They hatch early in spring as the buds are unfolding and the stem mothers on reaching maturity begin to produce young with great rapidity. Five stem
mothers reared in the laboratory produced 236,187 $110,247,78$ young respectively, or an average of 177 ,
while 37 individuals of the second generations produced an average of 108.51 young each. The third generation females develop into black or cark brown winged femalee that fly to plantain and there deposit young. From
2 to 5 generations are spent on the plantains in Scotia, the last generation developing into dark-colored
winged females that fly back to the apple and give birth to true females or into true winged males thab return to the apple and there mate with the females. The six generations in this province. The number of young of duced by the various forms, varies greatly, chiefly according to the weather conditions, and observation seeme
to indicate that this species flourishes under conditions that often prove disastrous to its relative the green
aphis, viz: long continued wet weather such as pre-INJCRIES-The chief seat of injury of the rosy
apinis io the leaves about the bossom clusters. The
most serious effect of this is to dwart aphis is to the leaves about the blossom clusters. The
noost serious effect of this is to dwarf the apples borne
on thesc

had any experience with this pest, will be found hanging on the tree. A curious effect of the aphis work about the fruit
cluster is the retention of many apples that would have dropped to the ground had they not been so attacked. This was particularly noticeable during the past year, when clusters of these gall apples, commonly called
'gnarls", would frequently be seen where the insect "gnarls", would frequently be seen where the insect was, in many cases, very light indeed. In fact in some was, in many cases, very light indeed. In fact in some
orchards the only fruit that could be found on certain trees was on the clusters that had been attacked by the rosy aphis. The fruit itself may also be attacked,
causing similar injuries to that produced by the green aphis.

## The Green Apple Aphis.

The green apple aphis is a soft-bodied, light green Tr yellowish insect, somewhat pear-shaped in form
when mature. It is one of our most common insects
and occurs in destructive numbers in our orchards if steps are not taken against it
state. The small, oval, black, shiny passed in the egg present in abundance upon the twigs. Speaking generally the hatching of the eggs coincides with the period at
which the leaves about the blossom clusters begin to which the leaves about the blossom clusters begin to
show green. I have however, found aphids hatched show green. I have however, found aphids hatched
before there was any sign of growth and while the snow was still on the ground. Others again have been found to emerge within a very few days of the opening of the
blossoms. Such cases, however, may be regarded as blossoms. Such cases, however, may be regarded as
exceptions. The winged forms, which compose one exceptions. The winged forms, which compose one amill proportion of succeeding generations, spread the insects from tree to tree; but there is no alternate host, this species spending its entire life upon the apple.
INJURIES-The injury of this insect may involve
leaves, tw.gs and fruit, and as the insect continues leaves, tw.gs and fruit, and as the insect continues
breeding on the apple throughout the entire season the lamage done may be considerable. The leaves curl up as a result of the insects' attacks, much to the detriment of the crop, as in severe cases, the leaves are so badly affected as to seriously interfere with the autritive liprocesses of the tree. The tender succulent such twigs may even die, or become so weakened that they succumb to winter injury. Frequently also, the work of the insects paves the way for wood destroying ungi. In trees with a rapid spindly growth, the twigs
may be curiously bent and twisted as a result of the aphids' work.
Injury to fruit is by no means uncommon in Nova cotia, and in years of severe outbursts the yield may be considerably reduced in this way. Small pimples or protuberances mark the injury and the fruit may be
otherwise scarred and misshapen. The green aphis thows a preference for succulent rapidly growing shoots.

## Control of Green and Rosy Aphis.

NAT; ral CONTROL:- Weather conditions doubtless
an important part in the natural control of these play an important part in the natural control of these pests. In addition to this various species of syrphus
fies, lady bird beetles, chick beetles, and a mite (Anystis agilis) have been observed feeding on the aphids and occasionally succeed in bringing them under control without the aid of man.
a'ways be depended upon.
reported excellent results from dormant spators have to the egg. This is possibly due to the fact that only a amall proportion of the eggs hatch under ordinary onditions. According to our results secured by count
ing 23,000 eggs of Aphis pomi, the number which hatch ing 23,000 eggs of Aphis pomi, the number which hatch
normally is 11.5 per cent. Others have secured a much higher figure than this and still others as low as 3 per cent. In order to secure accurate results in our experi-
ments, we determined the number that hatched from ments, we determined the number that hatched from
in equal number of sprayed and unsprayed eggs, in approximate number kille Lime-sulphur solution 1 to 10 , lime-su'phur solution
and lye, sulphur resin solution and blackleaf 40 and lye, sulphur resin solution and blackleaf 40, 1 to
500 were used in the dormant sprays. Though a large proportion of eggs were killed by the treatment, in no
zase was the number sufficient to make any of these sprays a commercial success.
The control of the pest by dormant sprays was accordingly abandoned and various summer sprays were
experimented with at several different dates. To sum ment of both species was blackleaf 40 in the strength of tbout the blossom clusters began to show green. This
nay be used in conjunction with lime-sulphur and
arsenate of lead. Flour paste considerably improve ofs mixture as an insecticide. When used alone 1 lb .
of soap added to the mixture improves blackleaf 40 as a

 A have dernding spav is given. In the case of the
coy anhe, however, when the stem mother causes the
 The Wrochy Apple Aphis

brown aphids, covered with a white waxy secretion.
They are particularly abundant upon wounds on the trunk or on a place where a limb has been removed.
Later in the weason they move out on the smaller twigs and form colonies there. In many countries the woolly aphis attacks the ronts of the trees and causes its most
serious damage in this way, but injury to the roots by this insect in Nova Scotia is rare.
INJURIES- In more southern countries where damage the roots is frequent, this insect is a much worse pest
than in Nova Scotia, where injury to roots is seldom found. The injury to the parts above ground consist in open wounds or cankers, but only under circumstances
particularly favorable to the insect, is much damage particularly favorable to the insect, is much damage done. Sometimes galls are found on the twigs, which the same insect.
15 per cent solution of kerosench the insects with a aphids are not too numerous they may be readily destroyed by simply painting affected parts with kerosene.
When the aphids have moved branches late in the season, a heavy spray of blackleaf branches late in the season, a heavy spray
40,1 pint to 100 gals. is usually effective.

## Facts About Garden Seed.

 People often purchase their garden seed in a hap-hazard manner. They should study out the best varieties according to their tastes and conditions, pared to the stock ready as soon as they are preand seasonable work the production of the garden can be increased at least 25 per cent. over the crop season. Some garden seed, such as peas should of season. Some garden seed, such as peas, should be
the first planted on the farm. Radish and lettuce should also be sown very early. If a cold spell should come and nullify the results of some labor it will only result in the loss of a few cents, whereas, if the
season is favorable, some garden products will be season is favorable, some garden products will be
ready for the table at an early date. In a recent issue we published the amounts of the different seeds required for various lengths of row. The following
table, compiled by Watts, in his "Vegetable Gardening," gives the weights of a quart of seed and the when ordering their supply.

## Kinds of seed Weights of Seeds.

Asparagus
Bean..
Ounces in
1 quart

${ }_{24}$ to 3

Cabbage
Caraway
Carrot, with spines
Carrot, without spines
Catmint
Caulifower.

## Chicory.

Cress, American
Cress, common gar
Cess, water
Cucumber, common.
Eggplant.
Endive
Kohl-rabi
Leek
Muskm
Ona
Onion...
Pea
Pea, gr
Parsnip
Parsnip.
Pepper
Pumpkin
Pumpkin
Radish
Rhubarb


Spinach, prickly seeded Spinach, New Zealend Squash, Bush Scalloped
Tomato
Turnip
Watermelon
The Construction and Use of Cold Frames.
 in the majority of sups. throush the thot om heat


the frame as a cover, but matting, bags, or canvas will
do. The size of the plants to be hardened off in a cold frame will largely govern its dimensions. For the general run of seedlings, however. it should be set
on top of the ground with a plank 12 inches wide the back or north side, and 6 inches wide at the south This slope allows water to run off the coverings, and reely admits the sun's rays. It is not necessary that the frame can be moved from one place to do, and It can be very cheaply constructed and banked on the outsid if necessary with soil, or strawy manure. The soil in the cold frame should be deep and contain a very large percentage of organic matter town, or even in the country, it is row difficult obtain. Fermented manure should be used in liberal proportions, so the soil will be very friable and loamy to the depth of at least 6 inches. This allows the
rootlets to proceed in all directions, and thus a rootlets to proceed in all directions, and thus a good
root system is established. root system is established. cold frame to correspond with the dimensions of the windows that might be about the place. These are usually 3 by 6 feet. During exceptionally cold weathe the glass covering should be used, but the operator
should not negleot to ventilate sufficiently, should not negleot to ventilate sufficiently, otherwise
the plants may become burned.
Young seedlings are often Young seedlings are often purchased still in the
flats in which they were produced. When coming fats in which they were produced. When coming
direct from the green-house, they would benefit by a short stay in the cold frame they would benefit by a short stay in the eold frame, in order to become
hardened. It is not well to set such plants as tomatoe in the garden too early; they too should be well hardened. Radish and lettuce are very suitable crops for cold-frame culture. If a hot-bed is not constructed, many uses and profitable ones could be
found for a simple cold frame, erected near the house or in a sunny exposure in the garden. It is a nature sequel to the hot-bed or green-house, but it is a con-
venient and profitable thing to have even where the venient and profitable thing to have eve where the
others are not used.

## Pruning Red Raspberries.

When pruning raspberry plants the one principle - remember is, that the fruit is borne on canes one year old, and older canes should not be allowed to stand. Pruning consists in removing superfluoue shoots from the base of the plant, and allowing only a sufficient number to stand; in heading-back the a sufficient number to stand; in heading-back the shoots that are to bear, and third, in cutting out the If nothing has been done borne fruit.
If nothing has been done to the plantation prion to the present season of the year, pruning should be proceeded with at once. It is much nicer working in the patch while the ground is still frozen and before growth starts. Take out the old canes and then remave a number of last year's shoots, if the growth was vigorous. Leave only the hardiest and healthiest and only from 5 to 7 good canes to the hill. More closer than 6 or 8 inches and shoots should not be more than one foot wide. When pruning it is a convenient time to space the canes in the row and remove alion from insects or fungous disease. It is important
tion that this work be done early, for the insects should be destroyed before they have any opportunity to
escape and reproduce. Early pruning is recommended, escape and reproduce. Early pruning is recommended,
but if the results of winter injury or freezing back cannot be ascertained winter injury or freazing back till a later date, but, generally speaking, the job can be
completed during the latter part of March and the During the growing season keep down the nem growth between hill be as high or higher than the shoots in the harvest time. At one time it was the custom to head
back at this time so the fruit could be gathered more back at this time so the fruit could be gathered more
readily, but in doing so laterals or side shoots were encouraged and were often severly injured in winter
The practice of autumn pruning has severaldisadvantages. First, the danger of freezing back where the canes are cut; second, injury to and of the loss of the tender
laterals through freezing; and third, the possibility of small and poor quality berries on account of too sent out as a result of winter or spring heading-back produce superior fruit, and it is harvested at less ex-
pense. This seems reasonable, as too many lateralo pense. This seems reasonable, as too many laterala
would be likely to set great numbers of berries which,
if the season should be and if the season should be a dry one and the soil none too
fertile, would likely be small and of poor quality Winter or spring pruning is especially adapted to the colder districts, but in the southern counties and in
Niagara District will be found growers who advocate autumn pruning. Where the climate is not a factor labor largely decides the question.

## Regretted Stopping.


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## POULTRY.

How to be Loyal to the Empire in a Necessary Food Product.
Editor "The Farmer's Advocate":
While out on Farmer's Institute work •talking poultry, etc., $I$ chancerd to meet a doctor who had
just returned from the hospitals in Ensland and just returned from the hospitals in Encland and
France, and he informed me that the hospitals there required very large quantities of eggs for feeding the get near'y enough, althoush the government not
gick commandeering all 'the available supply suitahle for
compital wse He said. tell the hospital use. He said: tell the people wherever you
go that they can be very loyal, indeed, by supplying go that they can be very loyal, indeed, by supplying
us with this very necessary food product to feed the us with this very necessary lood product to feed the sick and wounded soldiers, you want to remember, supplying eggs to the British markets have been cut
off by this war, and England is looking of by largely for her supply. Are we going to be equal to Canadian eggs to Europe are very great and that high prices are sure to prevail so long as the war lasts and product so as to capture this market, or allow sour other country to get the trade? Up to the preme time we have not been able to supply enough for to our large cities in car load lots are being brought Is this not a reflection on Ontario at least, where w this' product? Will not some of the large dealers hav a temptation to re-ship U.S. eggs to Europe as Canadian eggs unless we have some system of inspection?
Should not our government make a law whereby eggs should be properly graded for export at least
Is it not of as much importance as apples? even more so, as few can tell the quality of the contents of an egg without first breaking it. Canada's reputation in an egg trade with Europe can only be
maintained by a proper government system of inspection.
Brant

## FARM BULLETIN.

East Elgin Holstein Breeders Hold Their Second Annual Sale.
Holstein breeders who failed to attend the East
Elyin Holstein Breeders' sale at Elgin Holstein Breeders' sale at Aylmer, missed an
opportunity of securing choice animals at moderate pportunity of securing choice animals at moderate
prices. The consignors offered choice stock of the cows have been officially tested, and the young
stock traced back to noted stock traced back to noted ancestors. A number or six weeks. Twenty-three cows averaged $\$ 145$, and 20 yearling heifers averaged $\$ 72$. Messrs. Lindsay Pound conducted the sale. The following are the he price the consignors and purts sold for

Consigned by J. M. Van Patter \& Sons. Tensen Johanna Mercedes, F. Leeson, Aylmer $\$ 140$
Woodland De Kol Princ s $\mathbf{~} ;$ F F H Lindsay Aylmer 195 Woodland Tensen Johanna, R. Willis, Lambeth...195 Simeoe
hercedes Calamity, J. Smith, Aylme
Consigned by J. H. Chalk
Duchess De Kol Madolyn, H. Kent, Aylmer
Flora Mercuna Ree Becky, Ross McConnel Tolsti Mercedes, F.E. Martin, Springfield Celia De Kol, E Whitcraft, Copenhagen
Madolyn Lady De Kol, S. Sansturn, Aylmer Consigned by T. Martindale \& Son Johanna Althekerk Posch 2nd, E. H. Lindsay
Johana Aralissa Mercena, H. Millerr Aylmer ehanna Allanaling Jehuiling, H. Skinner ypio Consigned by Jas. Nevill \& Sons.
Dina Houtje Netherland, J. E. Lindsay
Consigned by Jos. Newell \&o Son
Pauline Pieterije Mable, Mos. Newell \& Son.
Grace Repper, Aylmer.
Pauline Consigned by H. V. Mann \& Son
Henry Wallace Passes.
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Seventy-four Holsteins Sold by Auction at Woodstock.
Club was attended in force by Holstein Breeders from than at any The attendance was considerably greater choice animals were consigned by well known hereed of of the Black and Whites in Oxford County, and were
sold at Dr. Rudd's sale stables Woodtor sale ring and seats were arranged, for the occasion. The animals were well fitted and showed to good advantage and R of the mature cows had qualified in the R. O.P producing ancestors, and were descended from highindividuals and with the yoang sting they were choold
give a good account buyers were present from elves in the future. Many was brisk throughout the sale. The 74 head ind induding several yearling heifers and bulls brought nearly $\$ 11,000$ Mercenaliest priced animal was Prince Abbekerk Mercena, an eight-year-old bull which has left 21 Colantha Queen with a record of over 26 ll lbs . Canary in seven days as a six-year-old, sold for $\$ 345$ and was the highest priced female at the sale. Fifty-nine females averaged $\$ 153$, and the male animals $\$ 133$ in a satisfactory manner The following coted the sale of the consignors and purchasers, together with the price the animals sold for:
Mercena Black Beauty, Dr. C. A. Cline, London $\$ 190$ Mercena Black Beauty, Dr. C. A. Cline, London $\$ 190$
Bright Girl, Elias Ruby, Tavistock
Prince Abekerk Mercena, Walker \& Sons, Wallker 210 vincess
va
Princess Canary Mercena, Dr. C. A. Cline …..........265
Consigned by Jas. G. Currie \& Son, Ingersoll.
Princess Pride De Kol, W. A. Montgomery, Wood-
Vida Princess 2nd. De Kol 3rd, Jas. Rettie, Burgess
Consigned by Walburn Rivers, Ingersoll. Daisy De Kol Wayne, R, Thompson, Carlingford. Sir Aaggie Hartog, Jas. Ogilvy, Stratford King Wayne Hartog, W. Wilson, Ingersoll

Consigned by W. E. Thompson, Woodstock. Mechthild
Shedden.
Ena Posch Segis, D. G. McLellan, Atwood Netherland De Kol Xanthe, W. A. Montgomery

Consigned by T. J. Lammiman \& Son. Segis Princess De Kol, H. Bollert, Tavistock
Mavournev Seris, I. P. Ficht Woodstock Queen Mary Sexis, R. Thompson
 Betsy Segis Mercena, (Geo. Mercer, Thamesford
King Calamity Segis, M. . . Evans, St. Marys Winnie Fayne Posch, S. J. Monteith, Stratford Fayne Segis Mercena, J. Leuszler, Bright

Consigned by McGeo Bros., Beachville. Axie Calamity Posch, Wm. Hodgins, Woodstock
Consigned by M. McDowell, Oxford Centre Consighed by M. McDowell, Oxford Centre. Bonheur Model, Geo. McCombs, Burgessville
Pauline Fayne Secis, D. Mcl Pauline Fayne Segis, D. G. Mcl ellan
Pontiac Lady Colanthus, J. P. Griffin, Freeman Cod by C. Hotb, Consigned by H. C. Holtby, Maple Soil Stock Cady Manill Geo C M Seloh Edgemont Princess, J. A. Duncan, Watertown Belmont Star, C. Duff Nelles, Boston Polly Pauline Veemanan, J.P. Ficht
Salla Princess Veeman De Kol, J. Canfield, Wood Fairmount Pledge Butter Girl, Geo. C. McIntosh Consigned by Cohoe Bros., Burgessville De Kol Jewel 7th., E. H. Featherstone, Burlington....
Dinora 2nd., Seo. McIntosh Calamity Jewel De Kol, Robt. McIntosh, St
Marys

Consigned by Jacob Leuszler \& Son.
 Consigned by John Kaufman. Consigned by A. Leuszler, Tavistock. Canadian Schuiling De Kol, J. F. Bedggood,
Thamesford
$\qquad$
$\qquad$
Consigned by Geo. T. Prouse, OstranderConsigned by Geo. Oliver
De Kol Calamity Beauty, Mi Faces, Bright
Sir Belle Calamity B.

Consigned by Alex Shaw, Lakeside Tidy Pride De Kol, Robt. Dunn
Viofa Wayne, Geo. Mahon, Woodstock Consigned by A. T. Walker. Pauline Beauty Faforit, Geo. R. McCombs.....
Calanity Brook Francy 180 - .... 130 Cubana De Kol Ormsty, J. A. Duncan, Waterdown 160
Pauline De Kol Countess

Consigned by Elgin Wood.
Carmarie Pauline De Kol, Jas. Ogilvy, Stratford.... 135 Jessie Perline Beauty, J. E. Bedgrood .......................
Mable Pauline De Kol, J. P. Grifin Cubana Pauline De Kol 3rd., H. Smith, Bright.... 135
130
13

Consigned by Noah S. Bender, Tavistock Home Farm Faforit De Witt, F. A. Smith 'Thames Veeman Lilly Hartog, C. Bollert

Consigned by W. B. Poole, Ingersoll. Josie Abbekerk De Kol, Neil McGugan Queen Onsty Hengerveld. Wilson Wils
Orthsy Daisy. Robt. Mcrntosh
Princess Ormsby Posch, Robt. McIntosh.

## On the Lack of System

Under the heading "Eny Meeny Miny Mo! of Mirrent issue of Industria) llows "Another month has passed, and still there has
been no announcement from Oitawa that would indicate the slightest effort on the Government's into harmonize the conflict between its plans for production on the one hand, and recruiting on the other. farmers of Canada to produce ture keeps urging the Parmers of Canada to produce, produce, and to keep
on producing. The Minister of Finance implares manufacturers to keep up their production partly because he wants to get a slice of their profits, but in a greater measure because he recognizes that only by production can we as a nation meet our financial
obligations. The Chairman of the Imperial Munitions obligations. The Chairman of the Imperial Munitions
Board keeps clamoring for deliveries and threatens delinquents with cancellation of their contracts , unless they speed up. And all the while the Minister of Militia goes serenely on his way taking indispensable men from the farm, from the workshop and from the
munitions factory, regardless of the havoc he creates with our national machinery for production
"If the Government's inaction were due to failure oo appreciate the seriousness of the situation, then they would be branded as unfit for the responsibilities believe anything of the kind. They know, they must know the straits to which manufacturers are already being reduced in coping with this problem of production. Unless they are devoid of imagination they must also realize that things will grow far worse be-
fore they begin to get better because thus far the Minister of Militia has secured only half the men he has set out to secure. They also have been shown evidence pointing to the probability of a drop this year of $\$ 300,000,000$ in Canada's agricultural production,
due to the inroads which recruiting ofters have made on farm labor. They cannot contemplate that with very much satisfaction. But still they hesitate to apply the remedy which they know to be the proper
one, and which sooner or later they have got to come . Why? pertinent to remark that men who are so easily scared from following the path of plain duty are. a mighty poor outfit to direc
to hunt the Huns.

## Who Pays the Taxes?

 The following figures relative to taxation of rail.roads in othis province recently appeared in the Forest
Free Press. They are worth reading, studying and Saving for tuture reference:
Ontario has 9,500
miles of railway, capitalized at Ontario has 9,500 miles of railway, capitalized at
$8570,000,0000$, or 860,000 per mile. The total taxes paid in 1914 were $\$ 1,017,000$, or cess than two mills (Ontario's agricultural wealth, (lands, buildings,
tock and implements) is $\$ 1,341,000$,(00). Whe 170 stock and implements) is $\$ 1,341,000,000$. The assessed 45 paid in 1914 were over $\$ 8,000,000$, a rate of six mills on the capitalized value, and twelve mills on the
assessed value. Since then the special war tax has A comparison of the railway taxes paid in On. 10.5. $\begin{aligned} & \text { very instructive, especially as several of our larger } \\ & \text { railway systems operate in both, much of their traffic }\end{aligned}$ being continuous through both.
(ntario has 9,5000 miles of railway; Michigan 8,000) In 1914 the Ontario railways paid in taxes
 The Grand Trunk system has in Ontario 3,080 miles of railway, and in Michigan 803 malies. Taxes
paid in (Ontario 8330,000 or $\$ 107$ per mile; taxes paid The Michigan Central system has in Ontario 615 miles and in Michigan 1,440 miles. Taxes paid in Ontario 862,009, or $\$ 100$ per mile: taxes paid in Michi-
gan $\$ 1,152,000$ or $\$ 1,100$ per mile

## THE FARMER'S ADVOCATE

one-half in Michigan, pays about 8700 in taxes
Ontario, and $\$ 28,000$ in
in Michigan. The Grand Trunk system in Michigan pays in caxes in that State more
The Michimantario pay
in taxes in that State more than all the railway pays Ontario
The
Mish
essed at $\$ 1,300,000$ en the St. Clair Tunnel is as Sarnia, which is assessed at 81284 opo township Ontario, and and sleeping car compon in Michien pay $\$ 3,300$ Car loaning companies
and $\$ 27,000$ in in Michigan. highert in Onssenger and local freight
In Ontario the railways have been given $\$ 23,000,00$ in cash subsidies. Provincial and Municipal; ;8,000,000 Michizan practically no public aid has been of tiven. In As the agricultural interests of the bountry bear great burden of the custom taxation the difference property is even more unjust than the above figures ould indicate.
Here is a grand opportunity for Hon. Mr. McGarry also do simple justice to the agricultural interests, from which so much is expected in our great Empire struggle.

## It's Time for Strong Drink to Go

## Editor "The Farmer's Advocate": I dinna ken will ye be lettin' me say a word

 $0^{\prime}$ us are sae mucke interested in it it juist noo that a word or twa on the materested in it it ubist noo that
aniss. There are a few subiects maye no be the taken


 gin we examine it frae taith sidesk an the question,
what's tae be said for bane oumber of years back $I$ mind $\begin{aligned} & 0 \\ & 0\end{aligned}$ oor college presidents said in faver oo permitttin' sale an whiskey tae continue in this country, It geie
me unco surprise at the time, for I hadna; an idea cae defend a business that wad waste his time tryin
did

 chocht I says' tae masel' '"noo, "in ye tak' awa ' ilka
temptation frae oft the ' critter ion mon gaein tae become., ", the airth what like a
Gin he has naething criter is mon gain tat become,", Gin he has naething
tae fight, na temptation tae resist, can he become a
men mon at an ? Or will he develop intae something like
what we hae notice there meithers noticed in the case, $o^{\circ}$ the bairns that they were young, an , wha had their ain private teacherrs sae they wouldna', hae tae associate wi' the ither
boys ${ }^{\prime}$ ' the toon, an" such like that they aye grow up wicioot ony backbone, and the meenute they get awa frae their mithers an' oot intae clean tae smash. They never had ony chance tae
develon develop moral muscle in their early days, for when they wanted onything they got it, an' hays ordships whn
so-called dangers werena' allo Gin ye want a tree tae tak' puid root in thear them; grow up strong a tree tae tak' hardy ye maid root in the soilant it oot in the open where the winds will get a gurd s.swee at it , an
then gin it has ony life an' vitality in it it will develo intae something or value that will, stand for maybe a
 tected bys ither trees. Juist sut, surrounded an' proi.
dee when these b bis trese
 wind. There's na question aboot tit, mon or tre mue mut
get their share o o the hard knocks, that are goin in
hbis













done for. But pit him where he canna' get liquor for again, an' the langer he is wi'oot it the mair he regains别 the end he is goin' tae become mony o' us but what ${ }^{\circ}{ }^{\circ}$ o some use tae society It doesna, tak' muche tae get a mon started on the
richt track sometimes richt track sometimes. The up an' doon roads are
muckle distance apart at the start, though they're lang way frae ane anither start, though they re lang way rae ane anither at the end. Sae there's a
possibility for the reformation o' ony mon, I'm thinkin', gin we juist gie him a better chance.
seere's anither thing too, tae be taken intae con seederation before we mak' up oor minds tae not interfere wi' personal liberty an' the richts o' men tae sell an drink whiskey $\mathrm{an}^{\prime \prime}$ ither stimulants.
that is oor duty towards the wives an' some o' these men wha hae lost control o' appetites, an' mony a time ,' their then When a husband an' feyther wha is usually kind an guid-natured enough, comes hame the worse o' liquor an' beats his wife an' kicks his children oot-doors, an' see th.t everybody gets fair play This is sup posed tae be a civilized country an' it's ip tae is sup-self-respectin' citizens tae keep oor name a
country's name guid an'
country's name guid, an' we canna' dae that gin we dinna afford protection tae those wha canna protect their richts tae the women an' children o' this land, I'm thinkin' we'll hae tae vote for prohibition. Maist o' us as men can stand tae see anither chap gettin' a his sober senses can stand by an' see a wumman a gaein' on ilka day an' we seem tae think that it's I hae juist been he
pened the ither day earin' aboot somethin' that hap guid illustration o' what the family $\mathrm{o}^{\prime}$ the drinkin' man are up against very aften. It seems that a cerglass o' liquor over his shoulder got a wee bit mair than was guid for him one nicht lately, an' when he horses an' he made them tak' him naebody kens whe but it wisna' hame, an' the auld chap spent the nich in his sleigh. It happened tae be an' unco' cauld micht too, an' when they found him in the mornin
baith his feet were for doctors but were frozen, an naething wad dae the noo he's a cripple for life an' ane o them aff. Sa the family o' five or six children will fall on the mither The warst of it is she'll hae tae look aifter the auld mon as weel., She'll hae a happy time o' it, I can tell growin' up tae be better men an' women because growin up tae be better men an' women because
their feythers example either. Still, they micht. canna' tell. Only it's a high price tae be payin' fo examples. In fact, takin' it a' in a', an' sayin' the best ye can for it 'Im beginnin'tae think the whiskey us, an' has cost us mair than it has been worth to us, an gin they gie us the opportunity tae vote on the ma vote for no whiskey an' tak' a chance on losin some "examples" an' "character-developing opportuni ties" an' such like things as we hae been considerin' Ye'll maybe think that prohibition will go agin the ye hae the idea that a Scotchman willna' cut oot what he finds is daein' him na guid, an' may be daein' his hands we dinna' want tae be bothered wi' ony handicaps an' extra expenses. Some tell us that the drink $\mathrm{o}^{\prime}$ them mair damagin' tae a nation than war, sae ane o' them at a time ought tae dae us a 'the damage
necessary.
SANDY Fraser.

Who Will Own Ontario's Radials

## The daily press in the Province of Ontario has from

 in regard to an agreement between the Hydro-Electric future of radial railways in Ontario. We understand that if the parties last mentioned get their way thefulfilment of the Hydro-Flectric railway scheme,
championed to with eager confidence by the people of this Province will never be a reality, but in its place will be evolved Surely Canada has had enough of the mann interests. considered. It has been rumored that Mackenzie \& Mann are likely to win out at Ottawa and that Hydro lobbyists, as we told our readers not long ago, and if
the mater comes to a decision it would be interesting west record their votes and influence. It is a good
time to watch a few of the home affairs as well as
those transpiring abroad

## Good Use for Alcohol.


in combination with certain vegetable oils, synthetic rubber as high in quality as the natural product is

## P. E. Island Notes

## Editor "The Farmer's Advocat

Fo. This is one of the mildest winters on record here The mercury has seldom got below the cipher. Stoc are wintering well with plenty of feed in sight to carr them through to grass. Prices for fat stock, cattle sheep and hogs, have touched the highest figure eve known here. This is certainly the stockman's growin ime. Winter dairying is being somewhat neglecte cultural account of the great demand for beef. Our agr cultural Department have adopted a different plan is of holding the Courses in the city they have held them in a number of centres through the have held The result has been that very many more of our farm ers have been able to attend, and the interest is these schools for the people has been greatly increased lectures by our agricultural staft about a week, and
subjects in lectures by our agricultural staft are in which farmers are interested.
The The "Seed Shows" are mostly over for the year years. Some of our best seed growers put previous cellent exhibits, which were a credit to themselvea
and to the province. These growers and to the province. These growers are doing much the best seed to insure the necessity of sowing only profitable returns. Far more attention is being give by farmers to securing the best quality of seed grain of the varieties that have proved their adaptability to our soil and climate. This, together with the use of formalin, which is now becoming general for the
prevention of smut, is adding greatly to the yield of our grain fields.

This is "mud lifting" time here, and thousand the old oyster beds in the bays and rivers of the Island Besides being secured by farmers who are located neas railroads all over the province valuable fertilizer here province. The discovery of this doubled the production on any land on which it has been used. It is a very cheap means of supplying the land with lime, and is much needed for that pur. pose on our soil, and the large percentage of organir goes a long way toward making it a well-balanced A matter that is demanding attention here just now is underdrainage. The exceedingly wet season part of the province on large sections of the wester ter of tile draining has come to be considered a nece to help the farmers in the government has decided sections where tile draining is most Reeded in some of both clay and sand have been found. The clay ha been examined by experts and found to be the ver best quality for the making of tiles and brick. $A_{D}$ the immediate future These, is likely to be started ib farmers in draining their land as be a great help to ing the material ready made it can be manufactured on the spot. The greatly imcreased production on the branch "Experimental Farm" here has been a strong object lesson on necessity of underdrainage, even op some of our higher lands.
P. E. Island farmers
in the matter of farm help this coming feel the pincb good many instances production will be leason. In a the withdrawal of so many of our young men from the farms to fight for our empire and save us from German domination, and "Kultur," which would be
utterly unbearable to those who have lived unde utterly unbearable to those who have lived under
British rule and enjoyed all that goes with British institutions.
P. E. I.

Holsteins Sold for a Good Figure at Elias Ruby's Sale.

 from a distance and the price received for the animale
was considered fairly good. Four mature cows averaged $\$ 265$ and six heifers averaged $\$ 185$. Twelve of the sixteen cattle sold were shipped to various parts of the
Province, only four head were purchased by men in the neighborhood of Tavistock. The young stock sired by a bull from a high-producing dam and out of cows that
have qualified in the R.O. M. test should give a good ccount of themselves. O. M. test should give a good

Maryland is barring from the state highways all motor trucks over eight tons capacity and increasing
the license fees to the following scale:-On trucks not more than one ton capacity $\$ 15$ per year ; more that one and less than two $\$ 20$; bet ween two and three tons
$\$ 25 ;$ bet ween three and four $\$ 30$; four to five tons $\$ 35$ : five to six $\$ 40$; six to seven $\$ 45$ and for seven to eight The output of Canadian motor cars will from pres. ent indications in the trade, show a very large increase
in 1916 over the past year varying from 75 to 100 per

## Toronto, Montreal, Buffalo and Other Leading Markets. <br> Toronto.

Receipts at the Union Stock Yards
West Toronto, from Sat., March 18 , Mon., March 20 , numbered 209 cars 2, ono., March catle, 4,633 hombered 77 sheep, 76
calves and 947 horses. Cattle steady calves and 947 horses. Cattle steady
at quotations mentioned in the report of last week's transactions. Nine choice
steers, 1,500 lbs. each, sold at $\$ 8.75$. Calves, sheep and lambs all unchanged
Hogs, $\$ 10.65$ off cars, and $\$ 10.25$ fed and watered. The total receipts of live stock at the
City and Union Stock Yards for the
past week were:
 The total rcceipts at the two markets
for the corresponding week of 1915 $\begin{array}{llll}\text { were: } & \text { City } & \text { Union } & \text { Tota } \\ \text { Cars. } & & 44 & 324\end{array}$
 The combined receip
markets for the past
increase of 210 cars, 2,32 , with the cotle, and 306 sheep, compared Receipts of live stock for the ppast
week were moderate for cattle, liberal in hogs, but iight for sheep, lambs
and calves. Trade was active in every department with prices firm and higher n every class, excepting calves, shee the limit that the consumers are pre pared to go.
Butchers
Butchers' Cattle.-On the first day of the week there was a liberal supply
of cattle; the auality of cattle; the quality of which was the
best seen here since Christmas. There were fully 20 car loads that sold at
$\$ 8$ to $\$ 8.25$; and another 20 car loads
$\$ 0$ ane more that sold for $\$ 7.75$ to $\$ 8$. On
Tuesday a light run sold at firm prices, and on Wednesday a run of 800 cattle sover Monday's values, or a full cwain of 25 cents per cwt. for the week.
The highest price paid for a straight load of choice cattle was $\$ 8.50$. That
price was paid price was paid for a few odd cattle on the previous week, but not for loads. and values"were higher in sympathy with the fat cattle market. The receipts of
gilkers and springers were moderate and prices for them were steady, the bighest price for an extra quality cow Veal calves were scarce considering
the demand and medium quality. Very few choice calves are being offered, not more than three or four during, the week, and
they reached the high mark of $\$ 12$ per Sheep and lambs were scarce, and
demands were not half filled. Prices
for these Kor these were not hanf filled. Prices
real choice, spring langed. The frirs which was of the Shropshire breed, two we were scarce for the past bers, but notwithstanding that fact, the demand was so great that prices adcars at the $\$ 11$ per cwt., weighed off
fed and fed and watered at the market.
Butchers' Cattle. - Choice, heavy
steers cattle, $\$ 7.75$ to $\$ 8 ;$ good, $\$ 7.40$ butchers' medium, $\$ 6.90$ to; $\$ 7.20 ;$ cood $\$ 7.40$ to $\$ 7.65$;
to $\$ 6.90$;
 to $\$ 5.50$. canners, ammon cows, $\$ 5.25$
$\$ 1.75 ;$ anters, $\$$ to to
bulls; $\$ 6.50$ bulls, $\$ 7$ to $\$ 7.25$; good medium bulls, $\$ 5.25$ to $\$ 6.25$. Stockers and Feeders.- Choice feed-
ers, 800 to 1,000 lbs., at $\$ 6.85$ to $\$ 725$;
 8.75 , starkers, 700 to 800 lbs ., at $\$ 6$
to 86.25 : yearlings, 600 to 650 lbs , at
66.25 to si Milkers and Springers.-Choice milk-
ers and springers at 890 .

good at $\$ 10$ to $\$ 1.05$; common and
light at $\$ 7.50$ to $\$ 9.50$; heavy, fat calves
at $\$ 7$ to $\$ 8.50$.

## 

to Sheep and Lambs.-Light sheep, $\$ 8.50$ Co $\$ 9.0$ to heavy and common shep, $\$ 7.50$; lambs, $\$ 11$ to $\$ 13.75$;
cull lambs, $\$ 9$ to $\$ 9.50$. cull lambs, $\$ 9$ to $\$ 9.50$; spring lambs Hogs. - Selects, fed and watered,
$\$ 10.60 ; 50 \mathrm{c}$, is being deducted for heavy fat hogs, and thin, light hogs; $\$ 2.50$ of for sows, and $\$ 4$ off for stags, from prices
paid for selects.


Breadstuffs.

according to freights outside; fee
wheat, 855. to 88 c, , according to sample
Manitoba. in antoba, No. 1 northern, $\$ 1.09$
store, Fort William; No. 2 northern
$\$ 1.061 / 4$ in store, Fort Wiiliam; No. northern, $\$ 1.041 / 2$ in store, Fort William Cats.-Ontario, No. 3 white, 42 c . to
43c., according to freights outside; com
mercint mercial oats, 41c. to 42c. No. 2 . Can
ada Westenn, 42 c, in store, Fort William
No No. 3 Canada Western, 4 c.,. in store,
Fort William; extra No. 1 feed, $41 \mathrm{c} .$. in
store, Fort WWilliam. store, Fort William;
store, Fort William

## Rye.-No. 1 commercial, 85 according to freights outside;

82c. to 84 c accords outside; rejected Buckwheat- Nominal, 68 c . Barley.-Ontario, matting. 60 62c. according to freights outside: feed outside 5c. to 60c., according to freights,
American Corn.-No, 3 yellow, 80c., Canadian Corn.-Feed, 68c. to 70c.
Peas.-No. 2, \$1.60, sample peas, ac Cording to sample, $\$ 1$ to $\$ 1.30$. $\$ 4.15$ to
Flour. Ontario, winter, \$4.30, according to sample, track, Torprompt shipment. Manitoba flourPrices at Toronto were: First patents stron second patents, $\$ 6$, in jute
strong bakers', $\$ 5.80$, in jute; in cotton $\xrightarrow{10 c}$. more. Hay and Millfeed.
Hay.- Baled, car lots, track, Toronto,
No..1, $\$ 17$ to $\$ 18$;' No. $2, \$ 14$ to $\$ 15$, per ton, track, Toronto.
Straw.-Baled, car lots track, Toronto
Bran.- $\$ 24$
shorts.- $\$ 24$ per ton, Montreal freight shorts, $\$ 25$, Montreal freights; midHour, per bag, $\$ 1.60$ to $\$ 1.70$, Montreal Country Produce,
Butter--Prices remained about stationary on the wholesales during the past week. Creamery, Iresh-made pounid to 34 c .; creamery solids, 31 c . to 33 c ,
Eggs.-New-laid eggs declined slighty , selling at 27 c . to 29 c . per dozen. The
cold storage variety are now off the mar-
Cheese. - 18c. to $191 / 2$ c.
Honey--Extracted, $121 / \mathrm{cc}$. to 13 c . per
pound; combs, per dozen sections, $\$ 240$ Leans.-Primes, $\$ 4.25$ to $\$ 4.50$; hand picked, $\$ 4.50$ to $\$ 4.75$ per bushel.
Poultry (live weight).-Chickens, 14 c .

 Potatoes.-Potatoes were very slow on
the wholesales during the past week but remained about stationary; the New $\$ 1.90$ per bag, car lot, and Ontarios

Hides and Skins.
City hides, flat 18c.; country hides, cured, 15 c . to 16 c ., country hides, green, kip skins, per lb, 16 c, ,. sheep skin,
city, $\$ 2$ to $\$ 3$; sheep skins, country,

solids, 6c. to 7c.
Wholesale Fruits and Vegetables. Potatoes were slightly easier on the
wholesales during the past week: the New Brunswick Delawares selling at $\$ 1.91$ to $\$ 2$ per bag bag, while new ones sell at 75 c a $\$ 1$ per per dozen bunches, according to size. $\$ 1.75$ and $\$ 2$ isc quite firm at $\$ 1.50$, Florida tomatoes are coming in quite sale, and causing them to decline; now
selling at $\$ 3$ to $\$ 3.50$ per six basket crate: a few extra fancy bringing $\$ 3.75$

There are not any No. 1 Spys on the market at the present time; No. 3 's
selling at $\$ 4$ to $\$ 5$ per barrel. at $\$ 4$ per case. Celery going at $\$ 6.50$,
while Florida celery brings $\$ 2.75$ per

There are not enough Florida straw hey are a quick sale at 40 c . and 45 c .

Navel oranges have advanced about

## Montreal

## The market for cattle continued

 display a firm tone in spite of the facthat the Lenten period is now here and consumpten is consequently con
siderably lower. Supplies were smaller owing, in large part, to the condition on the roads throughout the country
and to recent heavy snow storms There was no difficulty in disposing steers ranged from 8 c . to $81 / 4 \mathrm{c}$. per lb . fine being $71 / 2 \mathrm{c}$. to 8 c ., and good $63 / \mathrm{c}$. to 61 cc. Butchers' cows brought some what higher prices, being quoted at $5 \frac{1}{4} \mathrm{c}$ ranging from $51 / \mathrm{c}$ to $71 / \mathrm{c}$ Donger for sheep and lambs continued steady and as supplies were light prices held firm. Lambs sold from $113 / 4$ c. to 12 c . per lb., and sheep from $7 / 2 \mathrm{c}$. to $81 / \mathrm{c}$.
per lb. Calves continued in good de mand and supplies are increasing
Milk-fed calves sold at 8c. to 10c per lb , and other grades at The price of hogs advanced fully $1 / 20$ during the week, and sales were made
at $111 / 8 \mathrm{c}$. to $113 / 8$. per 1 b ., weighed off at $111 / 8 \mathrm{c}$. to $11 \% / 8$. per 1 b ., weighed off
cars. Horses.-Dealers report a fair enquiry from farming sections, and quite a few
horses have been sold for early farming operations as well as to cartage compreparations for the spring. Prices were $\begin{aligned} & \text { unchanged, as } \\ & \text { horses, weilows: }\end{aligned}$ heavy 1,500 to $1,700 \begin{aligned} & \text { draft } \\ & \text { lbs., }\end{aligned}$ $\$ 200$ to $\$ 250$ each; light draft horses, to $\$ 200$ each small horses $\$ 100$ to $\$ 125$ each, and culls $\$ 50$ to $\$ 75$ each. Fine saddle and carriage ho
at $\$ 200$ and $\$ 250$ each.
Dressed Hogs.-Following upon the advance in the price of hogs, the market strength, and quotations advanced to at $151 /$ to $151 \%$ c. per lb high record, fresh-killed hogs.
Poultry, - The poultry market is not
attracting a great deal of attention prices of everything being so high.
Choice turkeys were 27 c . to 28 c . per lb. and ordinary, 25 c . Chickens sold at 2c. to 24 c . per 1 lb ., and fow at 18 c .
19 c ., while geese ranged from 17c. Potatoes.- There was no change in this market, green mountains and Quebec
stock each sold at $\$ 1.75$ to $\$ 1.80$ per bag of 90 lbs ,, ex-track, and at 15 c . to Maple Syrup and Honey.-Maple $\$ 8.10$ each for $10-\mathrm{lb}$. tins, $\$ 1.40$ for 13 -lb tins, while maple sugar was 13 c . per lib.
Honey was unchanged at $151 / \mathrm{c}$. to 16 c . for white clover comb, and $121 / 2 \mathrm{cc}$.
13 c . for white extracted. Brown clo
honey was 9c. to 10 c .
Eggs. - uite a few eggs were offered heold weather held back Canadian procot weather held back anadian pro-
duction, but prices were lower at 30 c . duction, dor prices were for fresh laid. Selects were.
per dozen and
quoted at 25 c . to 26 c ., and No. 1 canded at $\begin{aligned} & \text { 22c. to } 24 \mathrm{c} \text {. to } 26 \mathrm{c} \text {., and } \mathrm{No} .1 \text { candied } \\ & \text { auter.- The consumption of butter }\end{aligned}$ is fairly heavy and prices were steady at 3sc. to 34 c . for choicest, with fine seconds at at $311 / 2 \mathrm{c}$. to 32 c . Dairies were Cheese.- There was practically no were quoted at 183/4. to 19 c . per Ib. $181 / \mathrm{c}$. Fin to 18 c ., and undergrades at $1 / 2 \mathrm{c}$. below. for oats - During last week, the nifarket for oats showed firmer tone and price Western oats chansed hands at $501 /$ ana 51c. per bushel. No. 3 were $481 / 2 \mathrm{cc}$. to
49 c., and extra $49 \mathrm{c} .1 / 2 \mathrm{and}$ extra No. 1 feed were als. 49 c . No. 1 feed sold at $471 / 2 \mathrm{c}$. to 48 c ., and No. 2 feed at $461 / \mathrm{cc}$. to
47 c . Ontario and Quebec No. 2 white oats were quoted at $471 / \mathrm{cc}$. to 48 c ., and $451 / 2 \mathrm{c}$. to 46 c . per bushel, ex-store.
Four.-The market was unchanged
at the previous week's decline. Manicoba spring wheat patents were $\$ 6.60$ for
firsts, per barrel in bags. $\$ 6.10$ for onds, and $\$ 5.90$ for strong bakers $\$ 6.30$ for patents, and $\$ 5.70$ to $\$ 5.80$ for straight rollers per barrel, in wood,
while the latter sold at $\$ 2.70$ per bag, Hay.-There was no change in the market for hay. No. 1 hay was quoted rood, at $\$ 20.50$; No. 2, at $\$ 20$. and No.

Hides.-The market was unchanged last week. Calf skins were 21c., per llb.
for No. 1, and 19c. for No. 2; sheep kins were $\$ 2.45$ each; beef hides were 21c., 20c. and 19c. per Ib. for Nos. 1,2 $\$ 3.50$ each. Rough tallow was $11 / \mathrm{sc}$. to ${ }_{2}^{21 / 2 \mathrm{c}, \text {. }{ }^{\text {per }} \text { a }}$

## Buffalo.

Cattle.-Another very high market at Buffalo last week, shipping steers thai were not strictly prime, and large pernothing in the shipping steer line fall ing below $\$ 8.40$, and these were only medium. In the handy butchering steer
ine best sold from $\$ 8.50$ to $\$ 8.85$, yearlings ranging up to $\$ 0$ to 89.25 . The advance last week over the weels preceding-when a higher trade pre-
vailed-was a full quarter, and the 105 loads on Monday were licked up in hort order. All classees of fat cows and ners about steady to a dime higher. nest heavy, thick, fat cows sold up to $\$ 7$ to $\$ 7.25$; best heifers from $\$ 8$ to $\$ 8.50$, and very little in the good butcher-
ing cow line sold below $\$ 6.25$ and $\$ 6.75$, with the sood kinds of butchering heifers 87.50 to $\$ 7.75$. Most of the stocker and feeder stuff was taken o kiling account, and these showed a high big kinds running from quarter thigher
Milchers and springers
$\$ 7.50$ Milchers and springers showed an improved demand over previous weeks. At
the close of the market on Monday the demand was far short of the supply cattle, and general opinion is that hey will continue to bring good, strong prices right along. Reports from the country are to the effect that the supply
of good steers is short, and that those that are available are in strong hands and do not have to come to market, and the opinion is that there will be no in-
clination to rush these steers to market, even if there are times when runs are larger than needs and prices are lowered
somewhat. Receipts last 3,750 head, as arainat 4,200 for the were vious week, and 5,075 head for the corres. ponding week last year. Quotations: Shipping Steers.-Choice to prime $\$ 8.85$; plain, $\$ 8.25$ to 88.40 ; very
coarse and common, 87.65 to $\$ 7.90$; Continued on page 526


When There is Peace． When there is peace，this land no more Thus do the facile seers foretelle
The truth that none can buy or sell The truth that none can buy or sell
And e＇en the wisest must ignore．
When we have bled at every pore Shall we still strive for gear and store When there is peace？
This let us pray for－this implore－
That，all base dreams thrust out We mar＇，in nobler aims excel， And，like men waking from a spel
Crow stronger，worthier than before， Grow stronger，worthier than before，
When there is peace．
－Austin Dobson，in The Spectator．
Among the Books
The Country Home

> (Concluded)
（＂The Country Home，＂by E．P．Powell，
McClure，Phillips \＆Co．，New York．］
Shrubbery
Who could resist the appeal which Mr ． country home？

White I write I look over the valley，
 all up and down the sides of the creek
runs a shrubbery of elder bushes， and grape vines full of huge clusters， of purple berries．All above these
hang willow limbs，which are also hang willow limbs，which are also
fringed with great masses of the yellow fringed with great masses of the yellow
berries of the bittersweet，and clusters while ago a group of reds－fruited wild cherries stood out in rich relief on
a．knoll in the valley；but now the a knoll in the valley；but now the
birds have eaten the cherries，and irrds have eaten the cherries，and
are chattering and feasting to－day in a half－dozen mountain－ash trees that
fill a hollow near the mill．Our home world is wonderfully supplied with blossoming shrubs；and 1 never dis－
covered half of them1 until 1 began to make a collection．＂
So much for＂Wild Nature．＂T So much for＂Wild Nature．＂The
following among our native shrubs are
recommended for transilanting to recommended for transplanting to the
home grounds：The dogwoods，wild
隹 plums and cherries，elder cras，crabery，
and filberts，with som：others not aly together indigenous to Canada，－b， berries，Tartarian honeyssuckle，Jo．Jutas
tree（redbud），lilacs（incluting the Per sian varieties），syringa，hydrangea，and
altheas，forsythin，weigeli ＂It is not difificult to arrange our

 high－tush
流以

＇Potatoes like apples，soon absorb bad odors，and you will learn that your potato cellar must be clean and sweet as your dining－room．＂－＂A tomato trellis，
half Golden Queen and half Trophy or half Golden Queen and half Irophy or Perfection，is a beautifut sight concede，but not everyone knows that＂the beauty goes hand in hand with comfort and pleasure when these are sliced．with granulated sugar
in Jersey cream．＂ in Jersey cream．＇
sorts of decaying easily made of all sorts or decaying matter，wood ashes，
manure and leaves，are the secret for good squashes，lettuce，radishes，spinach parstey，melons and cucumbers．A good
asparagus bed is a fine adjunct to the garden，as is also a salsify，or vegetable oyster bed．For greens the fields may be drawn upon nearly all summer，be－ ginning
spring．dandelions in the early
Canadians have been slow ty spring．Canadians have been slow to
recognize the merits of this plant，de－ licious if grown very quickly and used while still tender．Mr．Powell quotes the
words of an enthusiastic doctor，＂Cod words of an enthustastic doctor，＂God A little later in the season other＂weeds＂ arrive to keep up the supply，－pigweed lamb＇s quarters，and the young sprouts of milkweed；even＂purslane＂anathema to most gardeners．＂This weed，＂we are told，${ }^{\text {is }}$ ，growing in favor as a suc－
culent and delicious food．＂
Swiss chard，is seldom grown，but Mr．Powell recommends it as one of the most easily cultivated and most prolific of the It lives through the winter without Covering，＂， $\begin{gathered}\text { Rhubarb grows best } \\ \text { in a thoroughly worked－up soil that will }\end{gathered}$ atch the barn drainage，as will also peas，spinach，radish and early，carrots peas，spinach，radish and early turnips
should be planted just as soon as the ground is workable．．One cannot more than touch upon all the useful
things included by Mr．Powell in his
have climbed to higher things and to

## Insects，Animals and Birds

headed chapter upon entomology is insects，＂suggestively＂Our Rivals－the foes＂spoil for the faly，since these little Thates $\$ 300,000,000$ worth every year Spre statistics for Canada are not piven Spray pumps and poisons（Bordeaux with adequate hellebore and pyrethrum． means of fighting the inroads are our must know how to fight，and information is given here and in innumerable Govern－ and amphlets，＇as well as in other books A delightful chavoted to agriculture． imals about the farm and the real pleasure and self－development that come from poine for them．Even from a pecuniary every time mark you，to a certainty And again＂We are learning that success in horticulture and agriculture depends To good understanding of the birds． fruit，planting wild from eating garden the orchard confines is recommended： birds invariably prefer most of the wild species．Nevertheless，Mr．Powell made security certain by covering his cherry the the purpose．
Bees should
ent，not only for honey， ing fruit blossoms．

Mr．Powell closes with a delightful chapter on＂Nooks and Corners＂，but we shall close this synopsis with a letter quoted by him，a letter that brings out hook，that farming should be through his larming，living on the land a growth for personality rather than a mere accumul－ ation of things．
The letter was
The letter was written to Mr．Powell a Kansas girl．
Dear Sir：－I am somewhere between exact dates；but I an home with father and mother．The latter loves flowers，and so do I．She has hungered for them all her married ine，but what she gets，she gets herself，and plants
with my hel father to see that he is living a too narrow life．He thinks，and says，that he has no time for the ornamental．
He is not rich but he is well He is not rich，but he is well－to－do， and hev can afford to spend on re－ is slovenly，for it is not．We have a decent orchard，and some good trees along the roadside，and mother and have a few fine flowering plants；what
1 m an is that the whole place shows， a glance，that it is run for the
stomach，and not for the brain or character．I do not believe this is necessary．I have a notion that a
right sort of country place ought to show that those who own it auge think－
ing of something besides crops to eat and sell．．ing．I am going to
apologize to you，a stranger，by sending
you some seeds of a thornless gled－ itschia．＂that，＂says Mr．Powell， ＂．＂nd that，＂says Mr．Powell，

A Book by A．J．Balfour．

March 23, 1916

## THE FARMER'S ADVOCATE

signed to promote an understanding o natural by means of a fund proves es
tablished by
under the will of Lord Adam Gifford and the eminent British statesman now irst Lord of the Admirality in the As selected to give the lectures of 1914 ranks easily among the most distinguished dialecticians since the days of Gladstone, whom he surpasses in modernness of view, and, frobab
lectures were delivered orally from notes Almost every page discloses Mr. Balfour's intimate acquaintance with modern scientific knowledge and religious thought,
Briefly, it is a profoundly and judicially Briefly, it is a profoundly and judicially or rationalistic and the theistic interpretation of life. With "Humanism" which eoncerns itself with man in relation or supernatural theology, the book or supernaals. The constructive con clusion, which assigns God his rightful place at the centre of all things, will be re-assuring to perplexed minds fearful
that the Divine Being had been "read out" of the universe by science. Mr. Balfour shows that the Naturalistic interpretation of life really fails in doing
justice to the permanent value of human justice to the permanent value of human effort, while theism gives it an adequate
setting. Some comment is made upon "the great omission" in the Naturalistic
world-story of any account of the world-story of any account of the
transition from the not-living to the living, and the constant shifting of the ground that the source of morality must be moral and of knowledge rational leaving the agnostic cornered up as an em-
piricist. In these lectures we are happily not side-tracked into attempted expla which divine guidance works on matter or on spirit, mysteries as har "or
solution" as those whith surround "the action" but which are difficulties mind on rather than of practice to the average individual.
able expression in short, are a remark ment of thought to the conception that closed as Himself," "the condition of scientific knowledge'". With these beauti ful words they conclude:-" "It is only in a its deepest meaning and love its brightest lustre; so these great truths of aesthetic and ethics are but half truths, isolated and imperfect unless we add to them yet
a third. We must hold that reason and a third. We must hold that reason and
the works of reason have their source in God: that from Him they draw thei inspirations; and that if they repudiate
their origin, by this very act they pro-

## An Old Garden.

 I know a quaint old garden, fair to see, The heavy-laden bee doth roam Among the scarlet poppies brightAnd in the foxglove's cups of light
He makes his home
The rambling roses twist and climb The olden arbours bent with time,
The ivy with its dark green leaves Covers the ancient walls and waves Which over all the strong sweet scent A restul perfume throws.
Over that garden all day long
The speckled thrush pours forth his The blackbird sings,
And a caged dove, the summer days,
Coos forth his mournful plaint and
oos forth his mournful plaint and says
" 0 that I had Evelys M. Holder

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depend greatly on of a home does no is good taste in the expenditure even a little that makes the difference.
Those who have decorating to year are advised to ask their hardware dealer for permission to see the new
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Co., Limited, Paris, Ont." for 15 cents.


Our New Serial Story "The Road of Living Men"
the yellow river-and yet all the mystery
of the world was in A titled Englishman standing with his bride against the steamer-rail in the
harbor at Hong Kong; the man complaining that breakfast had been cold,
teaand clopsexecrable. girl's eye. And this was her roughance the end of dreams. She was lovely, and her thought that moment drove like an
arrow into my brain arrow into my brain. I see the two pairs
together, strangely blended in dust and wilight-grumbling Of Mary Romany
and dream. The maid of Oporto was integrated into my character-a part of all thinking, a station of all hopes, and
through which hopes assed through which, hopes passed with her
glow upon them, into the formative future. I saw the great dark eyes, as we had walked together, swum, sailed and talked together, straining in horror over the chift-every movement of the slender
animate girl; the words she had spoken animate girl; the words she had spoken
and the kiss upon my cheek-all these were fixed in the life oi me and replenished rom each day's strength.
In Hong Kong ong
I was loung Kong on a certain afternoon, I was lounging on one of the higher
terraced roads of the city. A white road on a burning but humid day; a foliaged declivity to the terrace below; and rising on the right-the villas, arbors, and
gardens of another and firer gardens of another and fairer terrace. A tion of the brilliant light. The face was concealed; I could not have known the figure after ten changing years; yet there was a sudden and animate consciousness with me. I had thought about the a tryst almost enough to materialize an illusion time felt the world's ways, I had somepresence of her. Somew as Adam in the presence of her. Something deeper than
brain tried to grasp the spirit failed. I was far from ready for that Dismay and joy mingled in her eyes. Eyerything about her was a new and surpassing mystery wrought of the years. feature-lovelier had expected in any was, not very tall; and there was back of her dark eyes a starlight, or the glow of a
beacon on a far londy not describe the exty suggest the spiritit exact look, but only solitary shining, the meaning to me, too deep to define. There was a wildness in that remote burning, as if it had risen sunless wilderness; as if her mind in some forth its fruits among the cind broughe with the wind and the rain and the She searched. second-then turned face for a breathless was imbued with the way her eyes. 1 the frailness that placed her a part in thoughts among the perfections; the in definable reshness and texture always
identified with fruit-blooms; and over all was the swift replenishmens; and over all mysterious attraction. All the elementent my life seemed to stretch out and breathe, each need finding in her, vitality in her, the old youthful emotionalism about moment. My mind seized and of that first fearless intent look of hers, fhat recognition had dawned, and the smile that lost its purport as she searched among the inner dimensions of my being
-thanded turned away. It returns now, her
thrilling face, her hand outstretched in the splendid light.
explicable foreboding that our time together was but a matter of of time toeffection, clumsy-headed as a boy The commanding desire to take her to some of illimitable leisure perishs, some place own pangs. . we had halto its he railing which edged the thalted at the descent reminded her of the cliffs of
Oporto. "Please don't dive over now, will you A man doess't remember that never was woman disappointed, nor romance
spoiled, because his emotions suddent spoiled, because his emotions suddenly
whirl-pooled in her presence. It is one of he sorry exposures of self-consciousness he he tels himsel lost and desperate had happened since Oporto. looking at her raptly, my usual faculties
and features undone "I have played much with boys-since we left you at Oporto," I managed to sance
"But tell me, what have you been Continued on page 524

## Hope's Quiet Hour.

## Inward Cleansing.

hyoor unto you, Scribes and Pharisees of the cup and of the platter, but within they are full of extortion, and excess. Thou blind Pharise, cleanse first that which is within the cup and plater, also.-S. Matt. xxiii. $25,26$. The Good Physician would not leave
sick souls.in a state of comfortable selfsick souls. in a state of comfortable self-
delusion. The Scribes and Pharisees delusion. .the Scribes and Pharises
were very strict in all the outward cer-
emonials of their religion, and looked down from their pinnacle of religiousness on the careless and worldly publicans and
sinners. The stern words of sinners. The stern words of our text
were spoken in love, to warn them of their danger. The drugged conscience must
be sharply aroused, and gentle words be sharply aroused, and gentle words
are not always the kindest. lulls the pain of a cancer by outward
applications, when the painful mercy of the knife, is more murderous than kind. If that is true in bodily disease it is just as true in spiritual disease. Our Lord loved those the outward cloke of religiousness and pointed to the festering sore which was destroying their souls. Perhaps its naked ugliness might drive them in penitence The land was full
were whitewashed once sepulchres, which they might appear pure and clean, but within-out of sight-were dead men's bones and decaying flesh. "Even so", righteous unto men, but within ye are full of hypocrisy and iniquity
Instead of condemning the hypocrites of other days or looking round for modern
"Pharisees" to condemn, let us look to ourselves-lest we also may be deceiving ourselves by outward profession which does not grow out of inward reality.
There is a story, called "Prisoners, which describes a selfish woman who saved her own life from the blame o
men by a criminal silence. An man was condemned to years of imprisonment because she shrank from an avowal which would have made things unpleasant the release of the man who loved her
but she shrank in cowardly fear fron telling the compromising truth 燯 about herself which would clear his $\mathbf{V}$ name
She loved reputation more than charaster -a dangerous thing to do. She desired -a dangerous thing to do. She desired longing to be better than men thought Restless and miserable, she tried every
remedy which would soothe her disturl). ed conscience, except the one real cure of
frank confession and innard chansing;
She dashed into a carer of crood wost not from lowe of ciod or man, but solely
from self-love. She found that the gnawing pain of consecience could he temporarinterest in the troulles of others. As
the author savs: "The remedy is chear and efficacious, and it is a patent. Like Et really does dogood - I mean to the owner of the shoulder. And you can stopp
rubbing the moment you are rellieved." the poor "that were not reguired of her, The Seribes were very particular to
pay tithes of all their possespons, to keep pay tithes of all their possesions, to keep
the ceremonial law and the traditions of
the elders with exact care, to fast and pray regularly. They really thought
they were serving cood, yet He loohed religion and could not find any love of God or mon in their hearts. They wete
soothe and quiet the stern monitor
within. We may succeed -for a time--
in deceiving ourselves and the world, he Good never for one moment deceive well to leave us self-deceived. If nothing else will drive us to seek a real cure of the sin, He may tear off the fine robe of
religious profession which we prize so religious profession which we prize so
highly and show us plainly how great is our need of a Saviour and a Healer. sin out of sight under the folds of a virtue to say comfortably. "Well, I am quicktempered but at least I am truthful. '

a fair disguise. Fay-in the story
mentioned above-sent many looxes of flowers to the suffering people in hospitals
yet she was so anxious to save herself unpleasantness that she tortured a man
in prison. She could give, and give freely as long as her own comfort was not Selfishness is a sin we all have to fight checked in our hearts it may lead us to Sacrifice another life in order to save us
from troutle, it may lead us to lie or us to prefer our own prosperity to the
safety and happiness of millions. safety and happiness of millions. Junia
told us that she overheard a man oll the
our hearts. It is the inward cleansing be left to care for themselves. Don't let am selfish if I don't give as largely or work as energetically as my neighbors?" Lét us rather ask God to show us what He wants us to give and to do for Him.
It is quality even more than quantity It is quality even more than quantity
He seeks. Our gold is tarniched dross He seeks. Our gold is tarnighed dross
in His sight if given from an unworthy motive. The two mites of the poor
widow were changed to gold as she widow were changed to
placed them in His hand.
"Little is much when God is in it;
Man's busiest day's not worth God minute;
Much is little everywhere
If God the labour dol
Let us thank God that He has not only
the will but the power to cleanse us from all $\sin$, that He has opened a Fountain for
$\sin$ ad for uncleanness. How dreadful it would be if the disease of sin were in-
curable. Our Lord came down to save His people from their sins. He does not cover sin under a white robe, but first washes the stained soul and then clothes it in the
white linen which is the righteousness of saints. We don't want Him to condone our sin but to free us from it. We could never be really happy, even in heaven, if
our sins were only covered out of sight.
pearls of great price, held closely in the
de can produce beauty

## The lily; Out of the ooze,-

The pearl!
Soars the immortal;
After hell's battle
White flags unfurl!
Therefore, my soul, be true
And undaunted;

## The Dollar Chain

The Farmer's Advocate and Home Magazine" for (1) Red Cross Supplies hef ( 1 ) Serlian Relief. March 17: A Friend, (ilencoe 10 to Ont., \$1; Contributor who gave Haven name nor post-office, $85 ;$ Mrs. J. Baldick name nor post-office, 85, Mrs. J. Baldick


Syrup Boiling in the Romantic Way

## News of the Week

Nova Scotia passed a prohibition bill by a vote of 28 to 3 . This bringe
Halifax into line, the only constituency not already under prohibition, Manitoba A Toronto man, Mr. G. G. S. Lind . K.C., Toronto man, Mr. G. G. S. Lindsay been in Pekin for the past year, has been appointed to draft
new mining laws for ousand United Stat re now in Mexico in pursuit troops The American army is to be increased at once to 120,000 men
Portugal has entered the war on the
side of the Allies, and is side of the Allies, and is mobilizing het
forces.
It is reported that 70,000 Turks have
petitioned the Sultan to petitioned the Sultan to dismiss the for peace with the Allies. en. Gallieni, who resigned as Minister of War in France, because of ill-health, Holland is greatly incensed. Roques. Holland is greatly incensed at Germany
over the sinking of the Tubantia, and is demanding reparation. fighting four weeks of the most terrible most important positions about Verdun are still held by the French, and the front of 2 miles has been reduced to a press it is reported thate of going to are launching a heavy attack Germane defeat at Verduns like an admission of cession to the adv, and a belated conburg, who always maintained that the main offensive should not be waged on that Germany has been obliged to refuse assistance to the Turks, who asked for reinforcements against the L'ritish in Mesopotamia and the Russians in Armenia. The latter are still sweeping
forward. During the week they took the town of Mamakhuatan on the Tigris, and are now preparing an attac on Trebizond, on the southeast of the

In the Bush in Early Spring.
(MrS. W. buchanan, ravenna, ont.)
ode to spring,
For some hundred thousand poets have But done the self-same thing, have But when new life is springing, and And all snowdrifts getting few

3ut write and ease their feelings, of
What they hear and see,
While the crows around are wheeling,
So I have got a paper, and I'ml writing
on my lap the kettles that are
boiling down the sap.
Whear the little woodreckers, a-going
thump, thump, thump,
While I am busy keeping all the kettlea-
While 1 am busy keeping all the kettes-
on the jump:
I hear the blue jays crying, as 'tis
borne upon the breere, as thro
amongst the leafless trees.
The crows are cawirg loudly, and the
cobins sing their lay, and the
say, " The spring has come, be
happy while you may"
The squirels, and the chipmunks, too,
are frisking to and fro,
And seem to have forgotten all about

## the frost and snow.

The addertongues are peeping, and the
The addertongues are peeping, and the
strong and gusty leek,

## Fashions Dept.



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measurement as required, and allow measure least ten days to receive pat-
ing at lern. Also state in which issue pat-
tern. tern appeared. Price ten censts PER
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your name when ordering patterns. Many forget to do this.
When ordering, please use this form:Name....
Nome......
County..
Number of pattern
Age (if child or misses' pattern).
Measurement-Waist ..............Bust..
Date of issue in which pattern ap-
peared..............


8939 (With Basting Line and Added Seam Allowance ${ }^{\text {Linessing Jacket }}$
for Misses and Small Women, $y^{8} 8$




8634 Gathered Blouse for Misses and 8884 (With Basting Line and Added 8884 (With Basting Line and Added Misses and Small Women, 16 and 18 years.


## The Windrow

By the second week in March Ireland had sent 142,000 men to the war front, all voluntarily, and recruits were still being added at the rate of 1,000

Why "Uncle Sam"? During the war of 1812 government stores purchased at Troy, N. Y., were marked "U. S." The inspector in charge of them, Samuel Wilson, was popularly known as "Uncle Sam," hence the name United States of America,

Simon Lake, an American inventor
and builder of submarines, proposes
that the next vessel for Arctic explora-
tion shall be a submarine equipped to go under the ice when necessary.

Women are taking the place of 150,000 clerks employed by the British Govern
ment who were released for active ser It is being urged that the word It is being urged that the words
on the crest of the prince of Wales, "Ich Dien," meaning "I serve,"" be abolished, on account of their Germa
form. The Welsh equivalent for serve" has been suggested, but is rathes unpronounceable-"Gwasanaethaf.

During a sea fight the engine-roop men tend the great engines of a battleship with all the care that they would bestow upon the same delicate yet
mighty mechanism in time of peace roaming listlessly in time of peace, purpose, around the engine-room with oil cans in hand, bestowing drops of lubricant here and there as required Theirs and the stokers' is almostwhole grim drama of a naval battle, for they are absolutely cut off from the fight, and are only cognizant of it by the quivering of the ship as the great turrets
over their heads fire or as the enemy's over their heads fire or as the enemy's
shells thud against the armor, or when some stray shot finds its way through the steel wall and the bunkers, to the boilers. Such an event blends, a whole death by exploding shell and scattering
fragments of steel; death by awfu) wounds from flying, burning coals, or
death by scalding, hissing, blinding death by scalding, hissing, blinding
steam as the water tubes burst all around them.-Tit-Bits,

After the war, says Literary Digest, the week-end tripper will not confine himself to roads he will launch into wherever fancy leads him. When the war is over 50,000 trained aviators may be without jobs, and a million machines are likely to be on hand. It
is only to be expected that air-routes is only to be expected that air-routes
and air-trips will be speedily established.

The pigeon, "first cousin once removed of the dove of peace," has be-
come an important factor in modern warfare. "His special value," note The Independent, "is as a photographer, a messenger and a spy. Equipped with a camera peculiarly designed, for his
purpose, he can dodge shells and aeropurpose, he can dodge shells and aero-
planes and penetrate the enemy's lines until their innermost secrets are recorded by his lens. The tiny camera is fastened under the bird's body, where it will not impede flying. Its shutter works automatically. The birds ar lact they are still used to some extent to carry messages-but it is as scouts
that they have become indispensable that they have become indispensable
to practically every army in Europe. The French have made the oost thorough and their conclusions have resulted in the addition of many automobile pigeon
houses to the general army equipment houses to the general army equipment. Whether or not the birds accustomed
to carrying cameras and dispatches can
be induced to substitute the olive branch, is an interesting subject for
speculation."



## BT Barn Book

WULDN 1 you like to know how to build a fine new barn, or remodel your old one so that it would be the best in the county
Wouldn't you like to know how to plan it so cattle-stands, gutters, mangers and passages would be the right size, no floor space would be wasted, and ventilation and lighting would be effective?
Wouldn't you like to learn the best ideas about
 site, appearance, design and size-how to lay foundations and floors, get the floor levels and make the concrete, build the walls and silos-how to frame the barn by a method that saves half the cost of the old way - how to frame a wide barn, barn with circle roof, or steel truss barn - how to build ventilation inlets and outlets and frame cupolas for
foul air shafts-how to build mangers so feed would not be wasted-and best sizes and shapes for gutters?

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It is the most elaborate work of the kind ever printed, and is worth a great many dollars to any man who expects to build or remodel his barn.
Not only is there complete information on almost every phase of stable construction and stable equipment, but complete working layouts are given for 14 different types of barns, including horse barns, dairy barns, hog pens, and dairy with exterior views showing what the bearns would look like when completed

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## All

plained and ook of practical. ruction and
e kind ever rs to any man
almost every quipment, but 14 different iry barns, hog ing what the

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Canada, and by large size Canada. and by large size photos and
plans shows just how they are constructed and equipped

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${ }^{\circ} \mathrm{C} R O \mathbb{N}$ 圆RAND" CORN SYRUP

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Coat of gray with its trimimings brown.

Tilting aloft his black-capped head, Giving a lift to his wings outspread
Chickadee chirps: Got any crumbs to bestow on me?

Winter and summer I bring you cheer There's never a day in all the year
You may not hear me. I'm small, But I'm bright and active and full of

From limb to limb then he hies away, Out on the branches you see him sway,
Black cap bobbing about as he Sings: "Chick, chick, chicka, chickadee, dee!'
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March 23, 1916


Our Junior Beavers. For all Beavers up to Junior Thijrd
Class, inclusive, Class, inclusive.]

## "Old Chap.'

Mother "calls me "Billiken" and Of funny little names, besides the Grannie calls me "Dearie," when I sit upon her lap, But Daddy nearly always used to say Grandpa calls me "William," and pats Nurse mays, "Ge head;
Nurse says, "Good-night, sweetheart," don't mind she tucks me up in bed; I don't mind what they call me, not But I did like to hear Daddy But "Good-night, Old Chap." Daddy said "Good-bye" to all of us, an To what they call "The Better Land," a year ago to-day.
But some time I shall go there, though And then he'll smile at me and say, Hullo! Old Chap.

- Ada Leonora Harris,

Junior Beavers' Letter Box.
Dear Puck and Beavers,-I have been reading the letters in "The, Farmer's
Advocate," and enjoy them very much. Advocate," and enjoy them very much.
I thought I would like to write a letter. We had a school fair last fall. I took We had a school fair last fall. I took oats to show, but owing to so much
rain they were a failure. There was a
prize given for a handy farm device; prize given for a handy farm device;
I made a square and a milk stool. I got first prize for my square, and second for my milk stool. I got in prize money Richard. He had potatoes to show. He got fifth prize. There were baseball, lootball and races. We had lots of fun. Everyone took their lunch, and we all
enjoyed it very much. We have about enjoyed it very much. We have about
two miles to go to school. Our teacher's name is Miss McMillan, and all we scholars like her very much.
Laurel, Ont., R. R. No. 1.

Deader and Beavers,-This is my
first lever to your Circle, which I enjoy
reading very much. My sister has reading very much. My sister has
written three letters, all of which were printed, and I hope mine will escape a little incident that happened with papa's horses last week when they ran out in the field. You know we have an old driver which we always take to Sunday School, but, she has a lame hip, and when she lies down on her side she cannot get up very well until papa
helps her. Her name is Maud. She lay on the weak hip in the mud when out. Darkness came on and they all came of the work horses) and Queen (one had finished milking he took the light to see about them. Queen met him
with a whinny and ran back to Maud two or three times, till papa got there
and found her in the mud. She could not get up, herself, as it was so
soft around her. Don't you think Queen

I will a brave part for a dumb Father, mother, son and daughter, running all day and cannot catch each other. Ans.-Four buggy wheels. Bowmanville, R. R. No. 3.
(Age 10.)
Dear Puck,-This is my first letter to your delightful Circle. I think the letters are splendid. We have taken "The remember. There are quite a number of soldiers training in our nearest town. They had their pictures taken in a group and sold them in aid of the Red Cross. I haven't seen them training yet, but 1 hope to see them before they leave My sister has a camera, and we have some fine time with it. As my letter is getting long I will close, wishing the
Beaver Circle every success Tottenham, Ont. (Age 11, Sr. II.)

## The Honor Roll.

So many letters are on hand that all cannot be published, therefore, some of the names will have to be put in the
Honor Roll. Here it is: Lloyd Wagg, Ina St. John, Lillian Coulter, Marjorie Matheson, Eric Wark, Mae Cameron, Harold Taylor, Bessie Turnbull, Borden Kelsey, Jean Bell, Pearl Moody, Margaret McGuire, Marjorie Erwin, Janie Henderson, Albert Gile, Leonard Janie Henderson, Albert Gile, Leonard Rosebrugh, Beatrice Scott, Harold Jackson, Elsie Jasper, Nellie Jasper, 'Wanda son, Elsie Jasper, Nellie

## Riddles.

Why are two t's like hops? Ans.Because they make beer better.-Sent by Eva Allan.
Everything has it, and so has a needle. Ans. - A name. Sent by Why would a potato make a good detective? Ans.-Because it has so
many eyes. Sent by Harold Jackson.

Beaver Circle Notes.
The following would like some of the Beavers to write to them.
Oswald cardine, Ont.; Myrtle Galbraith, R. 4, Milton, Ont.; Wilhelmina Wray (age 11) Tottenham, Ont.

## The Ingle Nook

Departments: (2) (1) Kindly write on one side of
paper only. (2)was send name and address with communications. If pen name is also given, enclosing a letter to be forwarded to anyone, (4) Allow one month in this

## A Garden Talk.

Dear Ingle Nook Folk.-I wonder not take an interest, or could not "interested into" taking an interest, in the making of a garden in spring The whole process is so creative, and -curious. You take out your hittle packages of seed, and regard the litt
brown heaps of promise with a sort affectionate awe. Some of the seeds are fine as dust, almost, and glisten with a metallic sheen. Others are grain-like some round, oval, triangular, othersnarrow like the fine shreddings from a water-bleached log. When you come to the beets and nasturtiums and four o'clocks, on the other hand, you find something more substutely uninitiated, could guess that even these could give rise to juicy red beet-roots, flaming flowers, and sturdy bushes three or four feet high? In each seed is locked the mysterious principle of infe, and yours it is to coa It is not drudgery to "put in" garden, a little garden, I mean; it
all joy to the one who loves plants For the large plot, of course, it is ad almost, carried out in such a way that the greater part of the work can be
done with a horse. Even for the very small space it seems not unreasonable
to ask that the turning up of the soil

## Makes

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liver Twist, by Dickens.
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The Pathfinder, by Cooper.
Never Too Late to Mend, by Reade. Waverley, by Scott.
Last Days of Pompeii, by Lytton.
Last of the Barons, by Lytton. Last of the Barons, by Lytton.
Three Musketeers, by Dumas.
Vanity Fair by Thackeray
The Scarlet Letter, by
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 (say at intervals of two weeks) to keep
your table going with the, tenderest and best? Among these are peas, beans, radish, beets, lettuce, carrots,
and corn. Speaking of corn, no variety and corn. Speaking of corn, no variety
is better than Golden Bantam. In Canada, with its comparatively short sumare to be recommended. If you have not started these in the house or hot
bed buy the plants at transplanting time, and, if the ground is not rich enough try sinking an old can punched manure beside each plant; fill this with water at intervals.
The all-round gardener will not for-
get Hubbard squash, vegetable marrow
and vegetable oyster, while she who likes and vegetable oyster, while she who likes
novelties may put in a few martynia for pickles, and Brussels sprouts and
kale for late using. Kale, by the way is not good for cooking until well
touched by frost. It may be left in touched by frost. It may be left in the
garden until Christmas and used as
needed. "Sea-Kale" is another variety perennial, grown for its first shoots in spring, which are blanched and may be
served like asparagus" It should be grown, like asparagus and rhubarb, in
a permanent bed. The shoots ar blanched by banking up with earth o
covering with ventilated boxes, and the
blanched leaves with their thick midrib are cooked. Rhubarb needs cultivation to keep
down weeds, and a very rich soil, with
mulching in fall and spring of wellmulching in fall and spring of well-
rotted manure. It is said that placing bottomless kegs over the plants in early
spring will force the shoots to grow up spring will force the shoots tender. Cut off all seed
Artichokes - the "Jerusalem", grown
for its tubers, and the "French" grown for its flower-heads which are cooked
for its
when well formed,-are both valuable
vegetables in any garden, and are so vegetables in any garden, and are so
easy of cultivation as to leave no excus for being omitted. The "French"
species, if well managed, will yield
"heads" from early summer until frost, but does not flower until the second
year unless sown under glass in March
april The Jerusalem artichoke year April. The Jerusalem artichoke
or
affords a food quite as valuable as
potatoes, and will grow even on poor and. It is too bad that its real value
is not more generally understood.
Spinach is delicious, but may usually
dispensed with in the country where
planting lamb's quarters, pigweed, early
shoots of milkweed, early dandelions
and purslane. All of these are excellent
when cooked quickly and nicely seasoned
with butter, pepper and salt. The
dandelion is not
cultivated. It should be used when
young and tender, before bitterness ha
set in, and the more rapidly grown it
is, the surer it is to be of good variety.
The same condition-quick growth-is
radishes, cucumbers, rhubarb, lettuce
Parsnips, parsley, and melons have
not been mentioned, but are necessities
delicious, but must be started so early
$\qquad$
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$\qquad$
that the quality of the soil is most
important; the very best is deep, rich mellow, well-drained, easily worked. I plenty of old, well-decayed manure
Fresh manure should never be put on a garden in spring; it burns. Whe the garden is under way it should be
cultivated (shallow) very frequently there is much good sense in the old say
ing, ", a good hoeing is as good as
rain." not altogether Noys, however, tillage does fashioned hoe. Even for sma!l gardens where the horse-cultivator cannot b weeders that help to make the work easier.


And husbande, husbande, is itte not
'But what is thyse?' ye husband 'That lyes across my knee?' A week or so ago we went to the milliner openings, and, notwithstanding the fac
that there is a big war that economy is preached wherever one large as ever, and the less there was o
a hat the more it seemed to cost. "or
course, you have to pay for the style,
$\qquad$






## Harab-Davies 

What Our Readers are Thinking

But implied

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## Home <br>  <br>    

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March 23, 1916
advantages of being a farmer's wife Before the war a lot of women supposed
to hold advanced ideas were very much worked up because woman did not have a chance to work and develop the laten talents she was supposed to possess (Was it not sometning farmer's wif knows all about her husband's business she is in all respects a partner and has a chance to make things go. There has been such an outcry about the way she has to work. Well why shouldn't a healthy woman expect to work? I often think it is such a relief to have one work thrust to look around for some 'worth pelliled task for idle hands; and our farm work is such a necessary and helpful work. Whatever we are we are nol parasites. I do pity the farm woman she is engaged in a-or ought 1 to say the-great basic industre. Don you tumk chatul in which a child reared is the greatest influence in his

Does the case of that deformed child remind you somewhat of the ancient Greek custom of exposing their unde sirable offspring in the forest? It seems to me it is hard to tell where such line of action might ,ead. And ""w and can anything be done to check the progress of the 'rust' when once it 2. Will some of the Ingle Nook friends give their experience re the can ning of asparagus. I canned some by though it looked quite good it did not seem to have the right taste.

What "S. S. S." says in regard to the farm woman seems to make apropos
a reference to what some of us heard a reference to what some of us heard
Mrs. Pankhurst say, recently, in regard to the Serbian farm women, as the were before the war. "The Serbians, said she, "are a refined and intelligent as well as courageous people. Every Serbian woman is a poet, and as she goes,
about her work, washing, or sweeping or working on the land, or sweeping, little song about it and sings makes a works." Women who do this have learned what escapes many-the true dignity some tonest labor. We Westerners are somet learn much from nearly all of these Eastern peoples.
Mrs. Pankhurst
most charming speaker,-dainty, wo manly, with a pleasing voice and perfect serious, without one trace of affecta tion, or "showing off." Even when one
can't approve of her methods in the old militant days, one must admire the charm of her personality.
butcher whom we consulted query: A the best way to prevent pork from rusting is to keep it in a good pickle and change the pickle from time to wind. To restore rusted pork wash it well with warm water, and scrape it, pickle.
The followit (1) Take 9 lbs. salt, 3 lbs. sugar, soda, molasses, 5 to 6 oz. saltpetre, 1 oz.
boil boil and skim. Cover meat for 5 or 6 week and hang up. (2) Mix 4 lbs.
fine salt. ozs. saltpetre for every 100 lbs . meat ders, and twice for bacon, rubbing in Pickle for hams and shoulders-To 100
lbs. lbs. use $71 / 2 \mathrm{lbs}$. fine salt, $11 / 2 \mathrm{lbs}$.
granulated sugar, 4 or. saltpetre Rub meat well and pı in barrel. Fill up
with water and roll once a week until take out a piece and wash and smoke it

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Ingle Nook Editor.-Will you allow
charmed (or charming) Circle? My only
service to "A Cavan Blazer,", as he
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fraternity might go about getting a
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Now, I want to tell him for his en
couragement what Ella Wheeler Wilcox says in a recent number of the New York "American." She informs us that with the coming of the telephone "the young girl has developed an astonishing tendency towards the pursuit of the
young man." Two young men of her young man." Two young men of her acquaintance, she says, were sent away
from home for a year for no other reason than to protect them from the attentions of young ladies who were continually calling them by 'phone, and making engagements of a social nature that interfered with their work as college students. Another young high
school student was actually captured by a girl of about his own age, she having led him into a secret marriage. The telephone is not mentioned in this case but no doubt it played its part. Now, the solution of the difficulty
for "A Cavan Blazer" is before us. Let him get busy and organize a Co-operative Rural Telephone Company, inducing all his neighbors who have tolerably goodforgetting to install a couple of the instruments in his own house, one in the kitchen and the other in his bed-room. He'll soon find that he cannot any longer complain of having only a cat and a dog for company. All he will have to do will be to take down the telephone will do the rest. The most bashful can find nothing to object to here. Like all practical ideas it is most simple. But let our "Cavan Blazer" hurry up and organize the company, for, as he says himself, "leap year is
passing." Bachelor No. 5.

## Correspondence.

## Window Boxes.

Dear Junia, - Could Mou answer
through your valuable "Ingle Nook correspondence" the following ques tions, re flower gardening? 1. In the planting of the pretty window boxes, used on the outside
the windows, are there holes bored the bottom? What kinds of annual would be pretty in them? Would prefer something blooming almost all seasons, and of a bright, red color; and also some creeping foliages to fall over the edge. Please do not suggest geraniums. 2. When planting climbing roses, is
it necessary that they grow up a wall or can they be trained to twine around a can they be trained to twine around
verandah post? When should they be planted? In catalogues the roses are termed two years or three years. Does this mean that it takes two years fo them to bloom?

> A MiddLE Middlesex Co., Ont.

There should be holes for drainage i the bottom of window boxes. Put i with moss or fibre before putting in the soil. The plants in a window-box should depend somewhat on the location of the window. For a sunny situation ' you might plant tall nasturtiums, which partly droop over the edge, tricolor amaranthus, a Madeir Tuberous begonias with bright-red flowers might please you. Climbing roses need a trellis., Cinnamon vine is the best twining vine can be twined about posts, but they need watching and tying in place.
Plant the roses in spring about the time growth starts. "Two years," etc.,

## Hymn Given Away. Mr. T. Baldwin, R. R. 2, Wiarton,

 Ont., says he will send a copy of a hymn stamped envelope, with address.
## In regard to Burns and Cuts, Dr. H.

is perhaps correct for very slight burns stroyed. This is a method of prevent wound, however, and all treatment that tends to prevent evaporation from

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encourage blistering.
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The injunction to bind a wound
am not at all in favor of. Slight wound

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PETER BEAVER, Guelph, Ont.

I would rather see stick together themselves and bad wounds should be good practice to draw the edges of the wound together with a bandage. The pressure congests the part. When a medical student I invented a method of using strips of adhesive plaster which were stuck close to the edges of the wound, and then sewing the edges of to this has been developed of late years It takes the strain from the raw edges and distributes it over a wide area. By abscesses are not produced.

Seasonable Cookery
Cooking Fish.-(a) To fry fish have the fat smoking hot before the fish is
put in. There should be quite enough to cover the fish, but as it may be used again and again no wastefulness is en-
tailed. When the fat is smoking hot it tailed. When the fat is smoking hot it
sears and hardens the outside at once, sears and hardens the outside at once,
and so does not soak into the fish and make it indigestible. Only a small
quantity of fish should be cooked at a time. Drain on a paper or cloth and serve hot on a hot platter. (b) To
boil fish have the water warm and add salt and vinegar to taste. Vinegar
helps to keep the fish firm. Allow helps to keep the fish firm. Allow
about 10 minutes for each pound of fish, and let the water simmer, not boil. When done lift out carefully, drain, and
place on a hot dish. Serve with melted place on a hot dish. Serve with melted
butter poured over, and garnish with butter poured over, and garnised-boiled
chopped parsley, slices of hardegg and lemon. If you choose you can make a white sauce and pour over the fish, grating some hard-boiled egg yolk over the top to make it look pretty, and mixing the chopped whites with the
sauce. Some always add a dash of nutmeg to fish sauce. White pepper of paprika should be used for seasoning The best fish for boiling are cod, had-white-fleshed species.

Finnan Haddock (Smoked).-Cook for 30 or 35 minutes in the oven in a very
little water. Drain, place on a hot dish dot with bits of butter and serve.

Salmon Salad.-Flake 1 can of salmon fine, add 1 cup cabbage cut fine, 1 cup
celery (if available) also cut fine. Season with salt and paprika. Mix with mayonnaise and serve on lettuce.
Eggs, Poached.-The secret of hav-
ing eggs poached nicely is to have ing eggs poached nicely is to have
plenty of boiling water and have it actually boiling when the eggs are dropped in. After that it should not bonl minutes. A little salt and vinegar may be added to the water. To poach eggs to perfection use a poacher; if you have poach the eggs, one at a time, in a
small, deep saucepan. Serve hot on small, deep saucepan. Serve hot on
buttered toast or biscuits, with a dot of butter and sprinkling of pepper or paprika on each.
Minced Eggs.-Chop up coarsely
hard-boiled eggs, and season with salt Put over the fire in a pan, 1 cup milk, 1 tablespoon butter, salt and pepper to
taste. When it comes to a boil thicken with a tablespoonful of Hour thiss like cream add the eggs. Serve on toast.
${ }_{5}$ Creamed Potatoes With Cheese.-Peel Boil until tender in a little salted water.
Drain, then add $1 / 2$ cup milk, a tableDrain, then add $1 / 2$ cup milk, a table taste. Sprinkle with grated cheese and

Roast Onions.-Peel the onions and
steam $11 / 2$ hours, then bake them in a pan with a little drippings, salt and a
sprinkling of sugar to make them brown


Veal Potpie.-Rinse 3 lbs, veal, put
in kettle and cover with boiling water.
Add 1 heaping teaspoon salt and remove scum. Next add 1 large spoonful of
butter and pepper to season. When nearly ender
on the meat. Make a batter of 3 cups
flour, 2 teasponns baking powder, a
little salt, 1 cup sweet milk. Drop a spoontul at a time on the meat. Cover
closely, and do not remove cover for 30 minutes. Keep simmering steadily.
When done remove the solids and thicken
the gravy with butter and four mixed.

The Road of Living Men Continued from page 515.
doing all
work? " I have just been wandering about studying men and waiting for to-day." She came a step closer, a swift-passing eagerness in her eyes.
mean-waiting for to-day?
It all might have been different. It was here I faltered, already afraid of my poor boldness. Perversely, my
an old Oporto memory.
"Do you remember," I questioned, laughing confusedly-"oh, but you didn' hear it-what your mother told me about girls asking,
Mary Romany had been brave enough to challenge me for the truth. My part was inconceivably dull. She smiled, and after a moment asked about my father, as we turned down the wamk and year of his death in Petersburg. She halted and caught my arm. fortnight. He always seemed fort
It appeared obvious now to express the deep reality of her mother's attraction, as I knew it, so I did not answer. Even this is miserable to remember.
the hall of the International we passed playing. It was all I could think of those playing. It was aning of Oporto
"Many periods-for months at a time -I have been away from a piano," she said, "so my studying has been intermittent. if But I'll gladly play for father very soon.

## Is he in Hong Kong?

Yes. We are leaving to-night
did not hear the
I did not hear the music steadily. The new going a way had stricken me. Though Romany I wondered now how I could Romany, I wondered now how I could in aggressive search for her. I seem to remember the colors of that music-the deep mild purity of the beginning and a sudden rocket of pearls. Then the pervading white of a human attachment changing to red in my mind, a passionate desire unfulilled-and from it all came a gray cold melancholy that finally into a majestic bereavement. In Tibet, I had wanted music as some men want wine. It was not necessary for me to speak when she had finished She turned again to the piano and played an early Romance by Tschaikowsky. It was another parting, and there was a mocking bitterness about the breaking in of the soldiers-loud and pitiless and empty-and then the woman was alone crooning over the broken theme of the parting, and upon her crooning came the faintly from a distance. The thing was rending in its sweetness and tragedy wa Mary Romany regarded me for
second. "That's very strange," she said
"I never played those two things to gether before. that I know of; and yet, they are both in the same key-Chopin's
$F$ Minor Concer!o, of which I played F Minor Concer!o, of which I played ance. . . It must be our key-" The windows of the music-room faced the harbor. It was twilight in the city, shadow of the mountain. Her profile waning light, and a touch every line of feature accentuated the volumes of temperament of which her eyes burned
intimations. She was distraught. I started to speak, but she was before me her gaze lost in the light beyond the
water-front and the ship-crowded shadows. "I wonder if I have been dreaming too, have wandered about the world? We seem to be creatures of ships, forever
sailing-a world of winds and coasts and ports-all alien - in a sort of $F$ Minor

## "And to-night you are sailing, Mary

 "Yes-and I must go to my father now up the river. Father has a new interest deep in the country."But won't I see you again?"
"I shall try to come here for a few "Thank you-but in China, in the

Yes, but-
An angular giant, pale-faced, of in perio
"My father," she whispered. "I'll 80 to him now-and

## She was gone.

For a long time I have been sitting those two hours (until dinner was over) meant to me: I remember hearing voices, but not words; hearing and smellime China as the stars cleared oversea somewhere behind the hotel, an English. man caned his rickshaw-coolie-but with none of these matters hadrany direct relaing receptivity to impressions. The whole man, Thomas Ryerson, was transfixed is hopeless horror at the thought of Mar Romany going away. It did not occut to me to ask for anything. It did not seem that she wanted me to follow her I did not count it strange that she had failed to introduce me to her father. I was afraid of myself with her, as I had never been with another living creature. She was the result She has found me less than she hoped; boy. Shame and self-hatred surged through me as I recilled the yean She had not missed upon my face the absence of achievement.
There was no rivaling ambition in $m$ nature to temper the force of romance Most men have their relation to the world firmly established at twenty-five Failing in a certain love they can fall back upon their work. There was no such sound bridge of life-inter dilettante which I had been.
I haunte the halls, while the gueste When Mary Romany came toward me from a far stair-way, a film wavered be fore my eyes. The tans and browne of the lamp-lit hall seemed an endless intervention,-one of the dusty waste places of the earth, stretching between my heart and her hill.
The music-room was unlit. She crooned to the piano. No word had been wonder have stood behind their love lady thus- in a darkened room? But the world's drawn sword was betwees us. Waiting for a train, a voice a telegram, for someone's step, 1 am restless and uncentred, held in the concentration of passing time. Thi meeting of ours, so vital in possibility, so intensely formative, a thousand thing to say- and yet, I was tranced beror the inevitable moment in which she wo eave the room. What an agom lowe together is
of the soul.
I saw the contour of her shoulder the shadow, as vision grew penetrative is the dark. I wanted to kiss the seam of her dress just there, but I remembered her disappointment in me. She played a little-something from that sam colorful perfect thing of the ant Almost, for an instant, the playing was locked my heart's truth. A suffusion of orange light filled the place. leaned toward her in the wondersed under her hands. Passion turned to melancholy. The Master's soul had seen the nakedness of desire; and in storm of majestic sorrow, turned upoo the artist from the inner life of thing he had suddenly become a
shallow potencies of flesh. - . . She arose and walked to the windo cruel silence. Again and again our gaze cruel silence. Again and again our gawe Once I caught the starry surface-lustry of her eyes as she turned. missionary was intoning in a low mon otonous way on the richness of the Scrip tures. His low fluency became a part of thed he old puzzle of anothe time I would have been amazed at the bleakness of his orthodoxy. His though him for intervals, as I forgot the harbof. lights and the slopes to the water front. So near Mary Romany stood. I heard her breathing, and the beating of hef heart. And yet we had no words. 4 the end of my days, I shall count thon among the most dramatic of life moments now changed from the missionary sald Continued on page 526 .

Founded 186 pale-faced, of it
past through the hispered. "I'll ${ }^{60}$ have been sittiong e in words when dinner was over ring and smeltime
cleared overien cleared overse
hotel, an Englibh. hotel, an Englibh
v-coolie- but with W-coolie-but with
d Iany direct relo drany direct rebor ssions. The whok thought of Mar thought of Macy
It did not occu thing. It did not me to follow her ange that she had to her father. ! vith her, as I had living creature. of this realization: er memory of the er memory of the
elf-hatred surged called the year pon my face the
arce of romance relation to the d at twenty-five they can fall fe-interest for the been
the gueste came toward me a film wavered be tans and brownt the dusty waste unlit. She crose word had been ehind their love ened room? But ord was betwees or a train, a voice,
one's step I aw d, held in the sing time. The ta in possioily, a thousand thing: n which she would t an agony al f her shoulder rew penetrative put I remembered me, She played of the afternoon int, the playine ruth. A suffusiop the place.
the wonders in's mood changed assion turned to ster's soul had desire; and in ow, turned upoo sh. ng, but there wat nd again our gaxt arry surf gin a low mop aness af part of the merely stirred nood. At anothe xy. His thought e barrens. If forgef forgot the harbof. the water front. e beating of hef nd no words. At shall count thon ic of life moments imperceptible page 526.


If you could leave the house in the cold winter mornings knowing that it was a warm, cheerful place for mother and the family to spend the day-couldn't you go about your work with a lighter heart ?
Wouldn't your whole winter life be changed?
Suppose that, not a few rooms, but every room in your house, were made comfortable with a Hecla Furnace. No matter how early you might tumble out in the morning you would have warm rooms to dress in. There would be no waiting around for the house to become habitable. A few minutes attention to your Hecla in the morning would provide warmth and comfort for the whole day.

Cold floors, drafty halls, and dreary sleeping rooms with their dangers of colds and chills would be gone forever. Your home would be a home twelve months in the year from the day you installed your Hecla Heating System.
Instead of being shut off from the world all winter, your home would attract your friends and make life gayer for your family. Add winter comfort to the charm of country life, and the city would lose its attraction for your sons and the hired help. With Hecla heating your home would be the best place on earth for you and yours.
An Old House Can Be Heated
Without making costly alterations to your house, without a large initial cost, and without much increase in your coal bill you can
have a Hecla Heating System in your present home.

Consider now, that your old home can be made modern for anywhere from $\$ 90$ to $\$ 150$-surely
a small investment in happiness and cheer for your family.
Furnace will that with a few tons of coal a Hecla Furnace will make your home as cosy as the
finest city home with its costly heating plant. finest city home with its costly heating plant.
Som? farmers tell us that they use only $31 / 2,4$ Some farmers tell us that they use only $31 / 2,4$
or 5 tons of coal during the winter. And if you or 5 tons of coal during the winter. And
have wood to burn you can do with very little coal except in mid-winter, when fires are kept
constantly burning. The Hecla burns either fuel equally well. It has a large door to take. rough chunks of wood. It has a wood grate that slips in or out without the need of bolts

Buy Comfort-Guaranteed
A little thought on the subject must clearly show how easy it would be to secure the comfort that would make such a world of difference in your home life. How little action is needed on your part to make the change from winter dreariness to winter cheerfulness?
It is not as though you took any chance in the matter. Hecla Furnaces are guaranteed to heat your home. We plan the heating system and take full responsibility for it. The men who represent us are chosen men. They have our experts to aid them. And they have our guarantee behind every heating job they do. This means that you may be sure of full satisfaction, no matter what the style or plan of your house.

## Save One Ton in Seven

And in addition to a guarantee of thorough heating, the Hecla has other fine features that you will surely want. Some of these cannot be obtained in any other system, because they are Hecla patents.
First: Hecla owners save one ton of coal in seven, because the Hecla has a
patented Fire-pot with a triple heating surface. This is the famous STEEL RIBBED Fire-pot-the greatest single coal-saving feature ever invented.

## Mellow Air-No Gas, No Dust

Second: No gas or dust from the fire can ever escape through the warm air registers. This we can guarantee because the Hecla has FUSED JOINTS that can never open and allow leakage into the warm air flues. Nor can gas escape from the doors of the Hecla. There is an automatic gas damper that draws off all surplus gas.
Third: Dryness in the air which is found even in the most costly heating systems, is guarded against in the Hecla. The moisture supply is so liberal that Hecla Heating is as mellow as June air.
The Hecla can be checked down to hold the fire for hours without waste. Close fitting doors and dampers, carefully made parts, fine materials, rightly proportioned checks and drafts, all combine to save coal. The Hecla can be shaken down with four separate grate bars, so that no live fire need come through with the ashes. These points are all daily money-savers that make big economies in the course of the season.

## HECLA

Make Plans for the Time When You Will Heat Your Home
Any one who would like to know what it would cost to heat his house with a Hecla can have the information for the asking. It will not matter to us that you are not yet ready to install a heating system. If you feel the need of one and would like to know what your outlay "would be, we have men who are employed to furnish you with estimates, full details and blue prints if you want them. This is done without cost to you.

You will certainly be interested in studying the question of heating from the literature we send. Our booklet, Comfort and Health," is a very thorough treatment of the subject, and we will be glad to send it free to anyone who wants it (and who mentions The Farmer's Advocate). Writing will not place you under any obligation whatever, and will bring you by an early mail the means of planning out for yourself the best way of securing comfortable and economical warmth in your home.

## THE FARMER'S ADVOCATE.

Founded 1866

POULTRY AND EGGS.
 $\frac{\text { at that price, W. B. Powell. Galt, COt. }}{\text { A FEW nice Golden- and Siller-Laced Wyat }}$













 Thatecuid ord ont.
B UY EGG- For hach hine from the monev making kind of Barred Rocks, White Wyandottes
and Buf Leghornase Our selected breeding pens are
from America's best laying strains and will produce from America', best laying strains and will produce
strong healthy chicks of supeior
pullets that will be early and persistent ly and
thayers Your order will have the benefit of our fifteren.
yeari experience in pultry breding. Egg 81.25
jifteen, 86.50 hundred. Sit

CARKS Orpingtons, buff and white, exhibition 85 per 15
anteed others 81 and $\$ 2$ per 15,9 chicks 9 guar-
 CHOICE Indian Runner Ducks from importe triof also Large Toulouse Geese. S. R. Copland
R. 1 , Harriston, Ont. $\underset{\text { EGS for Hatching }- \text { Nearly all varieties poul- }}{\text { GGS }}$ fifteen, eight dollars per hundred. Won over
1,000 prizes, medals, specials at leading shows
1915-16, including Canadian National, Toronto, 1915-16, including Canadian National, Toronto,
Guelph Winter Fair Gees., turkey eggs four
dollars doozen.
sineten yoars
square dealing. Luxton \& Sons, Mt. Forest.
Motto dolars dozen. Nineteen years breeder. Motto:
square dealing. Luxton \& Sons, Mt. Forest, Ont.
$\mathrm{H}^{\text {AVE }}$ you heard of the Table kig Uuckr Here is a new asset for the farm.
circular, it will surprise and interest
Staebler, Box 68, Gananogue, Ont. Staebler, Box 68, Gananogue, Ont.
AYING strain Barred Rocks, Cockerels, to 0
dollars, pullets one-fifty, each. Roue $n$ drakes, dollars, two dilets, one-fifty each. Rouen


 ench bred from heavy laying females. Pullets,
End 83 each.
Engranteed. Send for catalogue. John S. Marting and 83 each. Eggs 83 per setting. Satigfactio
Branteed. Send for catalogue. John S. Martir
STawer F, Port Dover, Canad. Strain" of beauty and utility, bred-to-lay
Eggo one-fifty per fifteen, o7 per hundred. Chicl
fitceen dollars per hundred. Fertility and liv
chicles guaranteed. Roseheath Poultry Farn Arteen dollars per hundred. Fertility and liv
chicks guaranteed. Rosheath Poultry Farn
Richmond Hill., Ont. TAP-NESTED White Leghorns. Certified egg
Raterd record with every bird. Eggs. chicks, for
sale. Welland View Poultry Farm, Welland, Ont. $\mathrm{W}^{\text {HITE WYANDOTTE }}$ record laying hens bigererels, blocky, bred fron record laying hens big, blocky, stay-whit
$\begin{aligned} & \text { birds } \$ 3 \text { and } \$ 5 \text { each. Eggs for hatching, } \$ 1.7 \\ & \text { per } 13 \text { J Jhn M. Bell, Cataract, Ont. }\end{aligned}$
WHITE Wyandotes-Hatching eggo trom grand Wen ot bred-tolay strainsespgecially fed for
vitality, $\$ 1.50$ for 15 O. Orders now being filled.
E. Akerman, Bainsvill. Ont. W HITE Leghorns, hist at Guelph and Ottawa.
Falls, Mating list free. W. T. Ferguson, Smith's
White Wyandottes
from high class stoc
both eggs and meat.

100 hens; gives dimensions, and measurementst
overy piece of lumber required. Deals with th
ommon diseases of stock and poultry and th ommon diseases of stock and pultry, and tb
emendies. Tells how to cure roup in four day
Contains full information about Royal Contains full information about RRyal Purp)
ftock and Poultry foods and remedles. COLLIN' HATCHER ano BROODER \$8.50


The Road of Living Men. Coetinued from page 524. tugging to a sharp irritation, and his
listener, in a low admirable voice, slightly alien, exclaimed wearily:
"My dear Elder, you choose beauty that is clouded, and strength that is
cruel-listen: crues-By the
down, yea, we wepl when we remembered Zion. We hanged our harps upon the willows-' hanged our harps upon the You see that is beauty?
required of us a song, and they that wasted wh requi ed of us mirth
whispered. The mystic beauty of the words brought me close to her heart, as for an instant the romantic spell of
Chopin had done, but a step in the hall Chopin had done, but a step in the hall with a queer ill-balance about it. The end had come. But in China, in the world, won't I
you again, Mary Romany?
She caught my face between her hands, drew my lips to hers. "Oh, Ryerson-boy, I cannot forget you.
. Yes, sometime again we shall come together-when we have each done our work-
The figure now obtruded very quickly way and drew us to the light.
A tall, delicate youth with a high, white forehead, black wavy hair, and a fresh red mouth. His slender figure swayed strangely, as if shod in moccasins. So
real was this impression that I glanced at the black polished leather of his boots. There was hard glitter about his eyes, something bird-like about the whole being, or better yet, something ing from me went to him, and nothing came, as our eyes crossed. I heard the moist hand. Mary Romany's face was flushed; her hand held out to me. thin, queer voice. Mary," Santell said in a She was gone, but something sus-
tained me. My emotions were burned out; old weary forces were gone from the heart; yet a new breath of life had and up the road toward the terracesthe spirit of youth in my limbs.
I could live. I could alter all life. this sustaining, the unknowable of Mary Romany, nor the mystery of Santell.
Only once in a man's life such a kiss comes.
The moon looked over the mountain. sure I could climb a moonbeam, straight to those silvered pealss.
To be continued.

## Suits Free.

Remarkable Cloth that Won't Wear Out: Now readers, would you like a suit or
pair of pants absolutely free! A most astounding offer is being made by a well-
known English firm! They have discovered a remarkable Holeproof Cloth. You
can't tear it! Yet it looks just the same no matter how hard you wear it, for if
during six months of solid, hard grinding work every day of the week (not just
Sundays), you wear the smallest hole another garment will be given free! The firm will send a written guarantee in
every parcel. Think readers just $\$ 6.50$ pair of pants sent to you all charges don't think because you are miles away
dot
$\qquad$
$\qquad$

|  | solutely free, and postage paid. Send |  |
| :---: | :---: | :---: |
|  |  |  |

[^0]Buffalo Markets.

## Continued from page 613

Best Canadians, $\$ 8.50$ to $\$ 8.75$; fair good, $\$ 8$ to $\$ 8.25$; -common and plain, $\$ 7.50$ to $\$ 7.35$
Butchering steers. - Choice, heavy $\$ 8.50$ to $\$ 8.75$; fair to good, $\$ 7.75$ to $\$ 8.25$; best handy, $\$ 8.50$ to $\$ 8.75$
common to good, $\$ 7.50$ to $\$ 8.25$; light thin, $\$ 7$ to $\$ 7.25$; yearlings, prime, $\$ 8.50$ to $\$ 9$; yearlings, common to good $\$ 8$ to $\$ 8.25$.
Cows and Heifers.-Prime weighty heifers, $\$ 7.50$ to $\$ 8$; best handy butche heifers, $\$ 7.25$ to $\$ 7.75$; common to good,
$\$ 6$ to $\$ 7$; best heavy fat cowk, $\$ 6.50$ to $\$ 7$; good butchering cows, $\$ 6$, to $\$ 6.50$; medium to fair, $\$ 5$ to $\$ 5.75$; cutters $\$$ Bulls.-Best heavy, $\$ 7$ to $\$ 7.50$; good butchering, $\$ 6.50$ to $\$ 6.75$.
$\$ 6$ Stockers and Feeders.-Best feeders, $\$ 6.50$ to $\$ 7$; common to good, $\$ 6$ to $\$ 6.25$ $\$ 6.25$; best stockers, $\$ 6.25$ to $\$ 6.50$; com$\$ 6.25$ to $\$ 6.75$; common, $\$ 4$ to $\$ 4.75$ Milchers and Springers - $\$ 4.1$ best, in small lots, $\$ 75$ to $\$ 90$; in ca loads, $\$ 60$ to $\$ 70$; medium to fair, in small lots, $\$ 45$ to $\$ 55$. Hogs.-Receipts last week were light and notwithstanding the falling off in
the supply, prices were lower. How the supply, prices were lower. How all other points. Monday the top was $\$ 10.50$, bulk sold at $\$ 10.40$, and pigs landed mostly at $\$ 9.25$. Tuesday values on better weight, grades were ten to
fifteen cents lower, Wednesday the market reacted, jumping five to ten cents over Tuesday, Thursday the marke Friday there was a further declint and twenty to twenty-five cents, range in
prices on best grades being from $\$ 10$ to $\$ 10.10$, with a few selling at $\$ 10.15$ Pigs were held steady all week, bull
going at $\$ 9.25$. Roughs the fore part o the week brought up to $\$ 9.40$, and Friday they dropped to $\$ 9$ and $\$ 9.25$
while stags went from $\$ 7.75$, ceipts last week were 19,700 head, being ceipts last week were 19,700 head, being
against 25,082 head for the week previous, and 20,600 head for the same Sheep and Lambs.-Last week opened with top lambs selling from $\$ 11.35$ to
$\$ 11.50$, and culls went from $\$ 10.50$ down. After Monday receipts were ligh
and the result was a higher trade, to lambs selling on Friday's market top high as $\$ 12$, it being the fourth time
this year that the latter price was paid this year that the latter price was paid
on the Buffalo market. Best yearlings
offered the past week sold at $\$ 10.35$, and sheep, which were scarce, sold as high as any previous time in the history of being from $\$ 9$ to $\$ 9.25$, while ewes went aggregated 21,500 head, being against
16,962 head for the week before, and 15,350 head for the corresponding week Calves.-Approximately
were marketed last week,
2s with 2,272 head for the week previous,
and 2,050 head for the year ago. Monday, under a red-ho
demand, top veals sold generally at $\$ 13$
 mon it was hard to place the toppy kinds
above $\$ 11.50$. Cull
-4.

Bulletins Recently Published

<br>Diseases-H. T. Cussow, Dominio



Advertisements will be inserted, under thit
heading, such ai Farm Properties, He $p$ and Situations Wanted and Each initial counts for one word and figures for two words. Names and addresses are counted
Cashmumi aways accompay the order. Nr
advertisement inserted for less than 50 centi. A LBERTA improved and unimproved farms 160 acres up, low prices and very easy terms, also formation, G. D. Carter nd Company, Edmon-
ton, Alberta.
EXPERIENCED man wants position on tarm. $\frac{\text { Reterences. Apply } 252 \text { Cariton ct. Tororto, }}{160 \text { ACRES one mile sulth or c.ty of Galt }}$ dairy or grain farm, stone house, two bank
implement. Archie McPherson, O. A. C. 72 ANID KEG. BANNEK OATE:
 rom prize-winning seed under rules of C. S. Gom Oats are clean, plump. free of wild oats and
noxious weeds. Govt. Inspector allowed My/

 PATENTS AVD LRGAI
FETHERSTONHAUGH\& CO., PATENTS FETHERSTONHAUGHA \& CO., PA REN TS
Solicitors-The Old Established Firm, Head Ofice
Royal Bank Building. Toronto, and 5 Elgin St., Royal Bank Building, Toronto, and 5 Elgin St..
Ottawz, and other princip)l cities. Journalism-Course by mail in newaporting, preparing special articles, editing, etc, in
$\qquad$
J. VICAR MUNRO, Architect Designs Churches, Homes and Schools. Reason-

54 Bank of Toronto, London, Canada For Sale $\begin{aligned} & \text { High grade White Cap Yellow } \\ & \text { Dent seed corn, } \$ 2.00 \text { per bushel. }\end{aligned}$
J. A. Eing, Wardsulle, ont
O.A.C.C.llo. 72, Seed Oats


Mutual Company
all of the surplus is credited to the policy-holders-not $90 \%$ or $95 \%$, but

## Gossip.

Have you written to A. \& G. Forbes
West Montrose, Ont., for a cata heir Shorthorn sale on April 13 ? dual-purpose kind are being offered See the advertisement in this issue, This is the last call for the Western Ontario Consignment Sale of Short on March 29. The cattle will be stabled sold at the Fraser House stables. out of London. Come and see buy. There are 35 young bulls and 30 high-class heifers to be sold at the bid-
der's price. Many of the bulls are from
Record of Peforms are mainly of first-class Scotch ines. Harry Smith, Hay, Ontario, is


type, purity and prepotency of the breed. The stock numbers about 40 head, chosen strictly to standard. The stud is kept on the moor at an elevation more tha, 300 feet little hay when there is snow on the ground.

The Prince is interesting himself in the Devon pack horse, the breed that once carried England's merchandise on
its shoulders before the days of the its shoulders before the days of the extinction. breed is prectousion.

Attention is directed to the advertisement of A. \& G. Forbes, West Montrose, Ont. They will hold an auction sale on April 13 at which will Shorthorn breed, including the noted stock bull, Bullrush.

Questions and Answers. Miscellaneous.

## Hens Do Not Lay.

We have 80 hens, 20 White Wyandottes, 20 Rhode Island Reds, and the rest White Leghorns, with a roosting not frozen but twice this winter. The scratching shed is a comfortable shed, dry, with 12 inches of straw on the ground floor, 20 feet by 20 feet. They are fed three quarts of wheat, 2 quarts of oats in the morning, at noon they
get 5 quarts of boiled potatoes and bran mixed. At night they get 3 quarts of corn, and have meat scrap quarts of corn, and have meat scrap
with bran and shorts mixed at noon twice a week, with alfalfa leaves, and an oat sheaf twice a week. They have access to road dust with disinfectant mixed in it all the time. They are
cleaned out every day where they roost and are only laying about 12 to 1 eggs per day. What ie the matter Ans - We cannot say. We have had Pereral complaints like there is something in the son or in the strain of the hens. Do they get plenty of oyster ahell and srit?
Bran for Cows-Feed for Hoga.

1. Is Manitoba bran inferior to On tario bran for feeding to cows?
2. Which is better, shorte or middlings or feeding to pige? Ans.-1. We cannot see how ther can be very much difference in the feed
ing quality of bran. It is all supposed ing quality of bran. It is all supposed analysis. Manitoba bran should bo equal in quality to Ontario bran.
3. Middlings.

## NAIL Your Fence Posts Into the Ground!

ARMERS used to skim their milk by hand. Now they use the cream separator You used to pull up your stumps or burn them. Now you blast them out pumps it, grinds your corn, and does innumerable other chores. But lots of you still follow the old-fashion of fence building. You dig a hole three times too big for a wooden post. Then stick the post in, fill up the hole, tamp it down, and have the post rot to pieces in the course of a few years, and have to go through the whole performance again. Why do it? STEEL TUBE FENCE POSTS almost as easily as you can drive a row of nails. With a rowful of these




## HERE IS

 YOUR CAR!
## A Six

 Cylinder 5-Passenger For \$1110(F.O.B. OSHAWA)



McLAUGHLIN MODEL D60


## REAL SERVICE

McLaughlin Service is assared by twelve branches conveniently located. Hundreds of Agencies from Coast to Coast. Ona million dollars invested in Branch Houses and equipment.
Large stocks of parts carried for all models at Oshawa and at the branches.
Forty-seven years of manufacturing and marketing of vehicles for Canadians.
Thoroush knowledge through experience of Canadian needs.
Consider carefully the SERVICE you buy-it is very important and necessary.

This model was designed and built by us, especially to meet the requirements of Canadian farmers.
It is just the right size for easy handling-not too large nor too small.
A woman can drive it easily.
It is solidly built to stand the wear.
It has powerful "Valve-in-Head Motor" developing from 30-35 H.P.

Has genuine leather upholstering, hair filling and deep spring cushions.
Has electric starting and lighting system-vacuum feed-is furnished complete to the smallest detail.
Remember "Every One A Six" and that the McLaughlin Co's. 47 years' experience in business with Canadian Farmers is behind every car.

# THE MCLAUGHLTN MOTOR CAR CO.LMIED 

12 Branches Throughout Canada

Questions and Answers. Miscellaneous.

Impaction of the Rumen-Indiges tion in Cattle Seed Potatoes 1 from a Blighted Field. sloatal, and I operated with a knife to allow the kas to escape. She lost her appetio. and I gave her one pound of Fpson: -alts, but they did not seem to act. ... I gave her four or five more lose- (il salts and two Equarts of oil,
ing her $\bar{I}$ found the stomach full of soft slushy ood.

1. What was the trouble?
2. What should I have given her? dige What is the lest remedy for indigestion in catte? to cover young potatoes with two inches of earth to protect them from frost ?
5 . Will peas do well if planted on 5. Will peas do well if planted on
the same land two years in succession 6. Will potatoes from a bighted crop be suitatle for seed? Is there any way of treating the seed? R. J. Mc. R. Ans.-1 and 2. From the dececription

- 

cow had impaction of the rumen. It so, the treat ment recommended is to
purge with 2 lls . of Epsom salts and purge with 2 lis. of Epsom salts and 2
ounces of ginger. Follow up with one dram each of sulphate of iron, gentian and nux vomica, and 4 drams bicarbonate of soda twice daily. Feed lightly on good hay, bran and pulped roots. If
,loating is not severe 2 ounces oil of turpentine in a pint of raw linseed oil should give relief. When bloating is excessive, puncturing is necessary, but canula rather than with a knife. 3. Treatment recommended for in Epsom salts to purge with $11 / 2 \mathrm{lbs}$ low this with 2 drams ne gux ver, fol-
three times daily along with good feed. 4. Protecting young potato plante rom frost, with a light covering of growers of early potatoes. 5 They may all 5. They may do all right, but it is not considered to be a good practice yields when a rotation is followed Peas generally do best when grown on sod either spring or fall ploughed. 6. The disease is believed to winter over in the tuber, and planting seed from an infected field would tend to spread the blight. We do not know o any method of treating potatoes before
planting to prevent blight.

In scrubbing floors Old Dutch makes the brush go a lot easier


In RAMSAY PAINT you get the most accurate and thorough



## A. RAMSAY \& SON CO. (Established 1842) MONTREAL, Que.

FOR SALE BY ALL DEALERS


Onrario Wind Engine \& Pump Co., Ltd.
When Witing Please Mention Advocate

Questions and Answers. Miscellaneous.

## Water Colored

Could you tell me what makes my well water red in color? Do you think it is crockery tiles; they are 24 inches
across top, just the same as used for sewage. I am bothered with quick sand not move the tiles, or would
could well be best. I put a cement
brick well brick well be best. I put a cement
well in my stable, and it flevors the well in my stable, and it flavors the
water, and it is a spring well, too. Would you please advise me what
Ans.-The tiles used may eor. it in the water. Brick or stone wells, or driven wells give satisfaction.

Lymphangitis
F Horse had lymphangitis and his leg swells up when standing ever since. He also has a crack in front of his hock
which forms a scab and is always fall ing off.
advise?

Ans.-Lymphangitis is a disease that is frequently followed by the leg swell
ing when the horse is idle. Local treat ment consists in long and repeated bathing with warm water, applying camphorated ointment or liniment after
bathing and excluding drafts. To prebathing and excluding drafts. To pre-
vent the disease in horses disposed to it, it is necessary to either give exercise every day or to reduce the grain ration.
probably both. When the horse is not working substitute part of the grain ration with bran. By bathing and ap the hock will probably heal.

Filly Perspires Freely
I have a two-year-old filly that has perspired freely during the past few days
Her mane and body become quite She has a scurfiness on the neck and front. She has the run of the barnyard during the day, but is tied in at
night. Her feed consists of wheat night. Her feed consists of wheat
straw, bean straw, clover hay and a few straw, bean straw, clover hay and a few oats. She eats all right and does not
appear to be sick. I would like to know the cause of her sweating, and the treatment for the same. $\begin{aligned} & \text { subscriber. }\end{aligned}$ Ans.-From the symptoms given it is difficult to diagnose the case.
Evidently there is not much the matter with the filly when she has a good appetite and does not appear sick. A colt that roughs it frequently grows a day may sweat quite freely. So long as the colt eats and looks all right we perspiring freely. The scurfiness may soap suds, rub dry, then apply an ointment. Kind of Silo.
I have a square silo which has been in use for 16 years, but it is about
done, and will not keep silage during opinion on a hollow tile silo, as there are none in this locality. I saw or. fom her

1. Would they be a better silo than 2. What would be the difference in Ans-1 A Constant Reader. crete, prepared wood, or hollow tile are proving satisfactory. All have good
features about them which appeal to some more than to others. Each kind
of silo has its champions, among the farmers; some prefer one kind, some an2. The hollow tile wall silo may be that owing to the air space in the wall,
there is less danger from freezing of there is less danger from freezing of
the silage, which makes up for the extra the silage, which makes up for the extra
expense. We would advise writing to the manufacturers of different kinds of
silos advertised in these columns and obtain prices and descriptions of their silos.
"If I knew you and you knew m But never having yet clasped hands, Both often fail to understand That each intends to do what's right
And treat each other 'honor bright How little to complain there'd be


MAIL CONTRACT
 Friday, the 14 th day of April. 1916, for the cosed
veyance of His Majesty's mails, on contract for four yeare, six tmes per week, over
Glanworth No. 1 Rural Route, from the lot d July, 1916, next.
Printed notices containing further information as to conditions of proposed contract may be seen
and blank forms of tender may be obtained at the Post Officer of Glanworth, Belmont, St. Thoman
and Wilton Grove, and at the office of the Pom Office Inspector, London: C . Post Office Department. Canada, Mail Servic
Branch, Ottawa, 3rd March, 1916.

## Ayrshire Bull

 A grand stock bull, vigorous, prepotent and aga terbred
Vaud Vaudreull Dairy and Stock Farm Limit Building, Montreal

\section*{RAW FURS <br> | HIghest cash price paid for raw lurs. Old- |
| :--- |
| eat in trade. Write for price list and tagi |
| Frg | C. FREE. ROGRRS. WALEARRTON, ONT.}

Strawberry and Raspberry Plants We are the most extensive growers of strawberrie
on the north shore of Lake Erie. This season we have a large stock of the best standard and every
bearing varieties, aloo red and black raappery
plants. All nursery stock offered tor sale is growi on our farm, Write for catalogue. Wm. Walker, Port Burwell, Ont Strawberries $\begin{gathered}\text { seed potatoes, etc.- } 50 \text { stan. } \\ \text { dard } \\ \text { varieties strawberrice }\end{gathered}$ including Fall-bearing, St. Regis, Everbearing an
other raspberries.
Blackberries,
currants, goose Mountain potatoes. Catalogue free
H. L. McConNEL \& SON, Port Burwell, On Rack-cured Seed Corn ${ }_{\text {Write us before }}^{\text {All varen }}$ placing your order for seed corn. We have quar
tity and quality. Our seed corn is all hand selected and thoroughly rack-cured.
ST. JOACHIM CORN GROWERS' CLUE St. Joachim Williams $\begin{gathered}\text { Strawberry plants. The recog } \\ \text { nized commercial strawberry }\end{gathered}$ the Niagara district. We specialize in this variety
Strong well-rooted plants for spring delivery one Strong well-rooted plants for spring delivery one
dollar per hundred, by mail prepaid Fifey eont
per hudred four dollarg per thousand, by exprese
 Improved $\begin{gathered}\text { Yelloweye seed beans free from } \\ \text { all disease }\end{gathered}$ R. D. Ferguson

Choice Seeds-Alsike at $810 ;$ O. A. C


## SOLVE THE HIRED HELP PROBLEM

It's becoming more acute. The men are being called to the colors, leaving
few men available. The women are taking on additional work, but
there's a limit to the work that can be expected of the housewife. Only one solution-machines to save man-power o

## HARDWOOD FLOORS

add one day to every week. No sweeping day is necessary as with carpets-
ten minutes with a dustless mop, better than ten hours with a broom. And ten minutes with a dustless mop, better than ten hours with a broom. And
in the kitchen, no scrubbing-Hardwood Floors are not porous, hence will not absorb greese and dirt stains.

BRIGHT, CHEERY, CLEAN ROOMS.
Write for "Beaver Brand" Hardwood Flooring Booklet A 5 .
THE SEAMAN KENT CO., LIMITED Meaford, Ont., and Ste. Agathe, Que. Fort Western Factory:

Deliveries arranged to any point in Canada.


## MANGEL "OUR IDEAL"

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Try one pound CANADIAN GROWN Seed 45 c. P. Free.
"Waterloo Giant White Sugar." Leaders The best Sugar Mangel .Wac. per lb. Post Free. Intermediate." Our SPECIAL Selection 40c. per lib. Post Free.
SPECIAL OFFER
One pound each of abeve 3 Mangers or one dollar P. Free.
Half pound each of above 3 Mangels for 00 . Post
 Finest HOME GROWN And trial is all we ask. Nene Better. Few as good. CATALOGUE POST FREE ON APLLICATION.
Special Conlections (extra value) Vegetable and Flower Seds. 12 ONTARIO SEED CO. Successors, wateriopo. ontario


Ouestions and Answers. Miscellaneous. Cement.
Is there such a thing as natural cement? Where can you get minerals analyzed? On my farm there is a spot where you can dig up white, soft stuff, and after it is up a short time it gets as hard as a stone. C. K. M. Ans.-Cement is ground and pre-
pared from rock or marl. Send a sample to the chemical Department, O. A. C., Guelph, Ont.

## Pormanent Pasture

1. What variety of seed would you recommend to sow for a permanent pasture on high, gravelly, clay soil? Timothy seems to dry out during the been difficult to secure a stand of clover, although the land is in good tilth.
2. Would orchard grass make good hay,
or is it better for pasture? If there are or as ither varieties that would suit this kind of land better we would like to know them. Ans.-1. The grasses best adapted
for permanent pasture require a year for permanent pasture require a year
or two to become thoroughly established. It is, therefore, good policy
in seeding down such a pasture to use timothy and red clover along with the following grasses: orchard grass, 4 lbs.;
meadow fescue, 4 lbs.; tall oat grass, meadow fescue, 4 lbs.; tall oat grass, 2
lbs.; alfalfa, 5 lbs.; white clover, 3 lbs. lbs.; alfalfa, 5 lbs.; white clover,
alsike, 1 Ib.; Kentucky blue grass,
lbs., per acre. The amount of timothy Ths., per acre.
and clover need not be large. This
may appear like a heavy seeding, but is may appear like a heavy seeding, but is
considered necessary in order to furnish considered necessary in order to furnish
good pasture over a number of years. 2. Orchard grass is more suitable for
pasture than for hay. If it is necessary to make hay of orchard grass, it should be cut early in
comes woody.
Size of Grain Drill-Sliding Hay 1. Would you advise buying a 3 -
horse grain drill rather than a 2 -horse? If so, would 2 horses handle a 15 hoe-
drill if the driver rides? Which would drill if the driver rides? Which would
be better, hoe or disc drill for heavy clay soil?
3. Is the movable or sliding hay rack to use with a hay loader a good idea? Where can the metals be secured?
Please discuss the matter. Please discuss the matter.
4. Is a harrow cart a
Ans.-1. With the prevailing scarcity of help the larger implements are ad.
visable, and 3 horses should be able to handle a 1.5 hoe-drill with the driver riding. Some farmers prefer the disc
drill, others favor the hoe drill. If the ground is anyway stony, possibly the
hoe drill would be more satisfactory hoe drill would be more satisfactory tip from George regarding spring culti-
vation. 2. The movable hay rack is claimed
by some farmers to be very satisfactory by some farmers to be very satisfactory.
A rack that has been in use for some A rack that has been in use or some
time was made by using 16 -foot sills to which is attached on the outside
series of rollers, 2 by 6 inches made of maple, and put on, with large lap screws,
two feet apart and 2 inches down from the top of sills. The front half of the scantlings 8 feet long, which rests on the rollers. The rear half of the rack
is buile in sections and folds up at the
back while the front half of the loat is being put on. A small tackle may be
used to pull the one-half load ahead when
$\qquad$
$\qquad$ of the rack from each ill cevery two feet
The front half could he built wit slide on tor of rollers and arranged to move the half load forward. A stop-
block would have to loe arranged to
hold the front of the rack in place while being loaded.
5. The number of farmers using harrow carts is increasing every year.
The use of the cart is claimed to be

## Selected Seed Grain

O. A. C. 72 Oats
Banner Oats
$\begin{array}{r}\text { Per Bya, } \\ +\ldots . . \$ 0.75 \\ \ldots . . \\ \hline\end{array}$ Banner Newmarket American Beauty Early Yielder New (Impori........... .70 Early Empire.......................... Barley O. A. C. 21 Golden Vine Peas ........................ 1.80 .80
1.50 Some No. 1 Red Clover 1.50
2.00
17.00 Still on hand. Alfalfa.................. 17.00 Timothy No. 1 for Purity
Alsyke No. 1. Alsyke No. 1.................................... 14.00 You might beat the price but not our quality
We have some good value in Seed
Potatoes for future shipment. also Potatoes
seed Corn.

Write for prices. Terme Cabb. Bags extra at value.

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## SEEDS

Red Clover, Alsike, Timothy, Alfalfa, Swee
Clover. Seed Corn, and Rape Sed, all extre lever. seed eren, with high Government
ceats for purity and germination. ests for purity and germination.
Ask us por pamples and prices.
We guarantee 8 :tifiaction.
H. WHITE \& CO. LIMITED

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O.A.C. 72 Oats

1000 bus. good clean oats, grown from prize - winning seed on clean
land. Write for samples and price. W. R. dougall, Hensall, P.O., Oni
O.A.C. No. 72 Oats
 a. year ago, last year had only half enough to
fill orders. Samples and price on application. Edgar Broderick

NONE-SUGH SEED CORN Our Guarantee
If not eatlofied in ten days, return oorn at os
expense and money will be refunded. Bago piw Don' delay. Write at once for our price-lle
giving free delivery offer. R.R. No. 1, Cottam, Ont. JACK SON BROB
The Roselands and Aifalfadale Farme


Mallory's Strawberr
Plants for Satisfac. Plants or Satisfac
Leading
varieties 84.000 po
Fifty
plants each Fifty plants each o
four choice varieties, early ano
late for $\$ 1,00$. Send for price N. E. MALLORY, Bienholm, On



R.R. No. T. Unerry Plants that grow-
 Seed Oats for Salio- A.c. No. .7. troe weed Heavy
$\qquad$
O.A.C. No. 21 Barley for Sale 85 c . Der bus Oealed by C. S. . . G. Alt. at Same barley in packe 81 per bus. Improved
gen Grorgr. r. barrie. r.r. No. 7. Galt, Ont Seed Hish yrade Alske Govt suandrut no



From HALF PAST MARCH to HALF PAST APRIL Use SOLUBLE SULPHUR

Full strength-10 to 12 lbs. to 40 gallons of water. From HALF PAST APRIL to HALF PAST JUNE Use
SOLUBLE SULPHUR Weak Solution-1 to $11 / 2 \mathrm{lbs}$. to 40 gallons of water and add

## ARSENATE OF LEAD

Soluble Sulphur has made good. It is used in the largest and most successful orchards in Canada and
United States. It comes to you in powder form. No United States. It comes to you in powder form. No leakage-no freight in water-no empty barrels to re-
turn. Perfectly soluble-no clogged nozzles. Easy to turn. Perfectly soluble-no clogged nozzles. Easy to mix, easy to apply and sticks like paint.
than Lime and Sulphur in every count.

Soluble Sulphur is a complete spray for dormant
trees, before buds open. For summer spray, use a weaker solution and add Arsenate of Lead.

Every spray does better work if the spray pump has large capacity, high power and uniform pressure. Bean Pump pump can give this efficiency. With the that every tree i-1d every branch gets enough. Bean Pumps en ourage thoroughness.

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Adopted by the best dairies in Gt. Britain and Canada. Makes
the butter firm-even-consistent all through. Results in better butter and bigger profles!

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paratus is constructed wwith a view to the per.
fect transmisson of sound e even when pen
nected with long-distance trunk lines. It you need a few more members in your

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vise us, and we will gladly assisis "A Telephone on the Farm" This book is free to your. Do not hesitate to
ask for information, estimatet or assistance.
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Tobacco is Needed at the Front.
The 70,000 Canadian soldiers at the front, a number which is being augmented tobacco which ise not getting enougt Françis R. Jones, organizing Secretar of the Overseas Club has been making an appeal for funds to supply more tobacco. Give our Canadian boys smoke.
Money received for the tobacco Fund should be paid in, at least twice a month. to either the Bank of Montreal, the Cana dian Bank of Commerce, the Union Bank or canada, the Dominion Bank, Toronto the Bank of N, bave Scotia the Bank of Ottawa or the Northern Crow Bank, together with a list of contributon with names and addresses written legibl in order that the post cards may by correctly addressed.
Any further information regarding the Fund will be gladly given on appli cation to the Office of the Overseas Club Room 28, Windsor Hotel, Montreal.

> Francis R. Jones, Organizing Secretary

Good Prices for Milking Shorthorns.
Fifty-four dual-purpose Shorthorn bullo cows and heifers were cashed for $\$ 30,390$ in less han three hos, at the annual sale held by ertich Shorthorn Ohice on March 2s The attendance was large and it was considered one of the best sales held of the breed in a long time The $\$ 1,000$ mark was exceeded on females. while 22 cows and heifers sold for ap average of $\$ 500$ or more. There was also a splendid demand for bulls, 13 head averaging \$377. The highest price. $\$ 1,585$, was paid for Bellevue Daisy. bred by Richard G. Wood, of Conshohoc ken, Pa. Another firm secured Rose F in 1915, and also the possessor of a record of 10,045 lbs. of milk in 300 days. Bessie Rose realized $\$ 1,400$, and Lulu Clays Rose realized $\$ 1,400$, and Lulu Clay,
daughter of General Clay, with a record of 6,994 lbs., changed hands at $\$ 1,300$ A six months bull calf representing the best of English breeding, was finalh secured at $\$ 1,325$.

## Herd Books Recently

 Published.Volume 4 of the Canadian National Records for sheep, has been issued from the press, and is now in circual Oion. Draps, Suffolk, Hampshire, Southdown and Cheviot, are all recorded in this volume Address, Accountant, Canadian National Live Stock Records, Ottawa, Canada. Volume 26 of the Dominion Swin Breeder's Record is also in circulation Yorkshire, Berkshire, Chester White. Tamworth, Hampshire, Poland China. and Duroc Jersey are included in thi one volume. Address, Accountant, Cal adian National Live Stock Record
Volume 14 of the American Shetland Stud Book has been issued from the Stud Book has been issued from thr press. Secretary, J. M. Wade, Lafayette. Indiana, to whom all correspondence should be addressed.

## Recent Publications.

The following books have been, re hrough this office at the price men tioned, postpaid:
Diseases of Poultry-Pearl, Sur- $\$ 2.1 f$
face \& Curtis The Marketing of Farm ProductsThe Wheat Industry-Bengtson \& 80 Field Crop Production - George 1.58 Soils, Their Properties and Man-agement-Lyon, Fippin \& Buck-
man Soils and Plant Life-Cunningham 1.20 The Farmer and the Interests Clarus Ager.. Feeds and Feeding - Henry \&
Morrison (revised and the 15th
2.20


The above cut shows a No. 10 Monarch Grinder and 8 h.-p. Engine.

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 properties of all kinds (farm, city, town, village and business) for sale and exchange. BUYERS will PROFIT by getting lists of our places. Sellers can make no mistake in placing their property in our hands for sale. Now is the agent. A postal to us will bring his address. We in touch with our nearest oozens of exchange propositions on our list THE WESTERN REAL eState exchange, Limited 78 ,Dundas Street, London, Ont.FENCES AND GATES $\mid$ Seed Corn- $\begin{gathered}\text { Prizewinining wisongnn } \\ 7 \text { and } \\ \text { and } \\ \text { Nongellow, the }\end{gathered}$
 $\qquad$ $\left.\right|_{\text {Northmoord. R.R. No. 3. }} ^{\text {Tor the sio. }}$

The American Cotswold Meeting.
The annual Stockholders' meeting; pursuant to the, call of the American at the Stock Yards Inn, Chicago, III. Point, Ill., presiding. The election of officers for 1916 resulted in the relection of all present officers and directors a follows: Pres., D. C. Lewis, Camp Point Ind.; Vice-Pres., F. Poirson, Ft. Wayne Draper, Utah; Secretary and Treasurer F. W. Harding, Waukesha, Wis. Di F. Poirson; J. D. tBrien, RRidgetown Ontario; F. A. Koser, Riskreall 1915 showed Treasurer's Mreport for 1915 showed receipts for record ing pedigrees $\$ 1,549$; for recording transfers, $\$ 36.75$; expenditures for special prizes, $\$ 365$; salaries, $\$ 733$; office supplies
and sundries, $\$ 209.07$, Total expend tures for the year $\$ 1,307.67$ expendi balance for the year $\$ 278.08$, which added to the surplus $\$ 4,149.28$, brought forward cash on hand $\$ 4,427.36$. Volume No. 17 is nearly complete in the printers' hands, and approximately 2,200 pedigrees have been accepted for volume No. 18.
Appropriations at fairs and expositions for 1916 were made as follows: for the International Live Stock Exposition 200; Pacific International Show, Port land, Oregon, $\$ 50$, to be pro-rated on the Ontario, Fat Stock Show, December 1916 $\$ 20$; for the best pen of four Cotswold lambs, owned by exhibitor, providing Cotswolds win the cup offered "at: the Show for best pen of four long wool lambs To the Toronto Industrial Exposition Ontario, the Western Fair, London, Ontario, and to all State Fairs which provide a classification for Cotwold sheep, $\$ 15$ is offered on a pen, four lambs, either sex, bred by exhibitor in the State
or Province exhibited, as follows: first prize $\$ 10$; second prize $\$ 5$. Cotswold prize ally enjoying a good demand for their surplus stock, and bright prospects were ahead for better trade, owing to the generally prosperous conditien of the muton and wool industry. The next meeting will be held during the International Live Stock Exposition, at Chicago, the first week is: December

A Record Sale of Herefords.
What was reputed to be a record ale of by Harris Sons, Harris Mo. on March 1 This firm sold 61 Herefords at public auction for $\$ 76,025$, and established the phenomenal average of $\$ 1,246$. This is reputed to be the world's record for the Hereford breed at public auction, and is the outcome of wenty years, effort of men who have established ideals of their own in Hereford type and have striven to realize those ideals through selection the Repeaters was dominant in this sale Repeater 63 rd. junior champion at Kansas City last fall, a son of Repeater topped the sale list at $\$ 8,100$. J. D Canary \& Son purchased Repeater 63rd. at this splendid price. Repeater 50th. by Repeater 8 th., at $\$ 1,150$, went to Glen. D. Davis. Repeater 49th., by the same sire, sold at the same price to Harrison Frazier. Repeater 54th., by Repeater 7 th., went to the herd of J. A. Dickens, was not bought until J. O. Southard, an was not bought untensive Kansas breeder, raised the bid to $\$ 7,000$. Exciting bidding ensued for both Repeater 66th., and Repeater 63rd., showing that the public are willing to pay for the superior animal. Repeater 65 th. by Repeater 8 th., went to $\$ 2,550$, while Repeater 70th. was bought at $\$ 2,050$. The six sons of Repeater sold 24 sons and grandsons of Repeater sold, averaged $\$ 1,766$. Live stock men should require no better lesson than this to impress upon them the influence on in
good sire, and what it may mean in future transactions. Defender's Lassie 2nd., with a cow calf at side, by Repeater 7th., topped the female list at $\mathbf{\$ 2 , 5 7 5}$.
A. Frank Litton was the buyer. Miss Repeater 11 th. and calf realized $\$ 2,200$. The entire list of females were readily bought up at good figures. The way for the males should add a new stimulus to for the males should add a new stimulus to
Hereford breeding.

Svery I..
Sheet
is true and even

## Empire corngtateliron

"EMPIRE" Oorrugated Iron is made with deep corrugations fitting closely and snugly; itmakes a splendid, strong, rigid wall that -building with Metal gives you -building with Metal gives you lightning-proof buildinge.
Our "Metalic", bullaing materlalehe" "Quality First" kind-may costalittle more than other building materials, but they're permanent. "Eastlake" GalvanMetallic. nock and Brict-fence and Clapborard siding; Roof-lights and Vent
llators, Bilo Tops, eto, Bave you monet, Write for intereating, booklet siving Metallic Roofing Co. Limited Toronto - Winaipet '


AUCTION SALE OF

## Dual-Purpose Shorthorns

20 Females and 6 Males
Including the noted stock-getter, Bullrusl Imp.) $6938-$ oo. 54 E , and severa young bulls got by him from heavy-milk milking strain, nearly all bred, and some heavy with calf. Sale on
Thursday, April 13, 1916
Write for catalogue to the proprietors
A. \& C. FORBES

West Montrose Ontario
FURS - HIDES WOOL

SEED GRAIN
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We think we have the longest experence.
We try to give the best service. We need your cream and will make it "worth your while" to
ship to us. A card bringe ship to us.
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## CREAM

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And what are you getting for your And what are you getting for your
cream? ers and more men to gather cream for us.
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Silverwoods Limited
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## CREAM <br> Wo pay express charges and furnish cans. Remit promptty. Take all make. THE BERLIN CREAMERY CO. <br> Sarnia Creamery <br> Pays express, furnishes cans and Pays Highest Price <br> Write for particulars. <br> Sarnia Creamery Co., Ltd. <br> Brant Creamery Brantford, Ontario <br> FISH NETS <br> 

Co-operative Experiments in Weed Eradication, 1916. During the past four years the On-
tatio
Agricultural and
Experimental Union have carried on co-operative
experiments in the eradicat experiments in the eradication of weeds.
Some fifty-ight farmers
have
taken part in these experiments, and some
verry interestin very interesting and valuable result
have been obtained. The weeds experimented with were perennial sow
thiste, twitch
grass, bladder campion, thiste, twitch grass, bladder campion,
wild mustard and ox-eye daisy. The results obtained may be summarized as follows:
, 1

1. That good cultivation, followed of eradicating both perennial sow thistle and twitch grass.
2. That rape is a more satisfactory grass thase in the destruction of twitc
3. That rape gives much better re sults in the eradication of twitch grass and perennial sow thistle when sown when sown broadcast. in fall and spring followed byltivation, cared for hoed crop, will destroy bladder campion.
from hat mustard may be prevented from seeding in oats, wheat and barley by spraying with a twenty per cent.
solution of iron sulphate without any serious injury to the standing crop or to the fresh seedings of clover. Those who took part in these experi-
ments profited by the experience in nearly every instance; they cleaned the field experimented upon, demonstrated to their own satisfaction the at the same time the results furnished co-operative experiments in weed eradication will be continued this year
(1916), and it is hoped that a large in order that sufficient information them be gathered to warrant definite statements being made in regard to the best weeds. The experiments for 1916 are
as follows: as follows:
4. The use of rape in the destruc2. A system of intensive cropping and cultivation, using winter rye followed by turnips, rape, or buckwheat
for eradicating perennial sow thistle for eradicating perennial sow thistle.
5. The use of rape in the destruc tion of twitch grass. ping for method of cultivation and crop5. A method for the eradication of bladder campion or cow bell.
6 . Spraying with iron sulphate to destroy mustard in cereal crops.
6. A method of cultivation and crop-
ping for the destruction of ox-eye daisy. these bad weeds are invited to write to the Director of Co-operative Experiments in Weed Eradication, On
tario Agricultural College, Guelph, On He will be glad to furnish full informa tion concerning these experiments and
to supply application blanks same. All experimenters will be supfor carrying out the experiments selected, and with blank forms on which to report the results of the same. All
interested in clean farming are asked communications to J. F. Howitt. On-
tario Agricultural College, Guelph.

## Gossip

At the South Huron Seed Show, he No. 72 oats, and first prize for alsike
clover, which are advertised in another
columen


THIS ACTUALLY HAPPENED





into the fencing about 2 rods from each olther pounds. - They ran full tid was that they turned a somersault over the fence, alighting on their heads and necks,
scratching them up some, but the fence remained intact Think of it! A dead weight of nearly a ton and a half coming with violent ferce agannst ou
poultry fencing

## Our PEERLESS Junior Pouliry Fencing Held

Stances. We build it of Open Hearth steel wire with all the impurities burned out and all the
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Also leen most anarywhere. Agents wanted in all
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## RAW FURS

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STANDARD FEEDS


## 1915 Graham Bros. Champion Stud 1916

dale classes, the grand champion, senior champion, we showed in the Clydesgrand champion, reserve senior champion, reserve junior champion. Stallions: champion and reserve grand champion mare. The best five stallions and the best stallion and two mares. We had 14 firsts, 6 seconds, 4 thirds.

We offer a great lot of big young stallions and mares imported and at very reasonable prices.

Graham Bros.
Claremont, Ont.
$\underset{\text { Importation }}{1915}$ Clydesdales $\underset{\text { Importation }}{1915}$

 ${ }^{\text {MMITH }}$ \& RICHARDSON $\qquad$ COLUMBUS, ONT
Clydesdale Stallions and Mares ${ }_{a}^{\text {We are now offering for sale }}$ tallione alo mare in
John A. boag a son. Oueeneville, Ontario




[^1]Gossip.

## Shorthorn Sales.

The following report of recent sales comes from Robt. Miller, Stouffville, "Since our auction sale in Toronto on February 2, I have sold the following Shorthorns: To W. B. McQuillan, Howell, Mich., the young bull, Butterfly Sultan $=102053$, $=$ sired by Superb Sultan $=75413,=$ and from Imported the King, at the head of the Dual-Purpose Herd owned by the Province of Alberta. To Ratcliff Bros., Stouff ville, Ont., I sold the Lavender cow, Lavender Beauty Rose, a splendid pair, the cow a great milker. To W. J. Davidson, Cooks town, Ont., the bull Forrest King, a strong, thick bull that should breed well.
To. J. C. Wilkinson \& Son, Watford
. Ont., the cow Hazel Slip and her bul Sask., the young bull, Scottish Ranson by Imp. Scottish Peer, and from a cow descended from Imp. Lydia Languish To. R. T. Lewis, Green
toulin. The yay, Manifrom same sire and from Lady Blossom this is a nice calf. To W. H. Hartin Royal Adair, by Imported Royal Fancy To John Steele, Almonte, Ont., the roan bull, Stamford Selection. To Howland Bros., Kleinburg, Ont., the young dull, Ramsden Pride, a good one. To
James Findlay, Markdale, the young james Royal Edward, a beautifully-bred Lovelace and a very promising bull. To Wm. Batty, West Hill, two very promising young dual-purpose cows
To Victor G. Bowes, Meaford, a good Meadow Flower bull. To Wm. C. a heifer that are right and bred right.

Oxfords, Yorkshires and Collies at A letter from B. Armstrong and Son, Codrington, Ontario, whose advertisement appears in this paper, states that
they are not offering any Shorthorn females for sale, as they have on hand only their foundation stock. Their stock only their breeders, which were selected last fall. They are all shearling ewes, weighing upwards of 200 lbs . each. They
were the pick of two flocks of high merit and some of their ewes they consider good enough to win in Toronto. Messrs.
Armstrong claim that nothing is too good for them. They paid a long price for the ewes, but they are well satisfied
with them. The Yorkshire pigs they with them. The Yorkshire pigs they
are now offering are from a very large are now oftering are from a large sow of
litter. They are from a large excellent show quality, kind and an exers they have had. She is now raising fourteen pigs herself, and five of the litter were given to another sow which Tarrowed about the same time. In collies, Messrs. Armstrong believe they thave one of the best temales in Canada, conceded to be the greatest' sire living -cay. She will probably whelp before this is read. They also have two Can-
adian bred females of high-class quality that will whelp later
These breeders also have rose-comb slate-colored turkeys.

## Drainage Expert

The farm Drainage Campaign, in College in 1905 has developed such proportions that it has become necessary Physics. Professor W. H. Day, as head of the Department, will continue in that experiments in Evaporation, Cold Storage, Ventilation, and so forth. The Dranpage, work has been assigned to J. R. Spry and all correspondence regarding this
important branch should hereafter be directed to him. Mr Spry has been associated with Professor Day in his ning.


Going to Decorate? If you are going to "do" the dining-room or the bedroom, or even the kitchen, this spring, you
need this book. It illus need this book. It illustrates in photogravure, in colors, rooms done with Alabastine. It contains suggestions and ideas for color schemes, and it shows how you can do the work yourself.

## Nabactine

Artistic Wall Tints A copy of "Homes Healthful and stamps), but ilt 1 sue 15. (coin of ing even one misasko-and herolis noth ing cesier wo mate than mixakes in color $t$ Wines over? Then tend for hum for sudy it beforie you suart hoveceleanine. the alabastine company 86 Willow Streer Paris, Onario

O.A.C. No. 72 Oats $\begin{aligned} & \text { Pure, clean } \\ & \text { geeminates } \\ & \text { Qed }\end{aligned}$
 Two Black Percheron otallons, $\begin{aligned} & \text { otern } \\ & \text { otd weight } 1,000\end{aligned}$ 2r better; height. 16 or $18 / 1$; extra quality, to me at farmera prices in in . North Malden P.O.
Amberthurs Station.

D
ANGEROUS
as well as painful - Backaohe Neuralgla Sumbago $\begin{aligned} & \text { Rhoumatia } \\ & \text { Stint Joints } \\ & \text { Sprains }\end{aligned}$ Cmmantis suartichaskn will relieve you.




SAVE-The-HORSE
SPAVIN REMEDY


THIS SHOWS! Such unusual and continual resulto as the for
lowing prove that this remedy is so reliable-and orccoastel-that it is positively is affe and secure
finveotment to buy it under our CONTRACT. Investment to buy it under our CONTRACT.
This is a eigned, legal oontract to cure or refund the money. 20 Yoars a Sucoosc, mo and will show whit it hra dana, writed his.


 ane-haif the botto way ueg sho was sound as a dolhar.



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Druggate FVerywhere eoll Save-The-Horse
Wtt CONTRACT, or we send by Parcel Posi or Exprese pa

in

## ABSORBINE

Reduce Reduces Strained, Puffy Ankles, Lymphangitis, Poll
Boils, Swellings; Stops Lameness and allays pain. Heals Sores, Cuts, Bruises, Boot Chafes. It is an
ANTISEPTIC AND GERMICIDE Does not blister or remove the erse can be worked. Pleasant to use. 2.00 a bottle, delivered. Describe your case
for special instructions and $B o o k 5$
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K $\mathbf{\text { free. }}$



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Great Conditioner
\& Worm Destroyer


 STEAR STEEIE BRIGGS SEED CO., Winnipeg, Man.

## Belgian Horses

Experiments with Farm

## Crops.

The members of the Ontario Agricultural and Experimental Union are pleased to state that for 1916 they are
prepared to distribute into every townprepared to distribute into every town ship of Ontario material of high quality for experiments with grain, fodder crops, roots, grasses, clovers and alfalfas, as follows:

## List of Experiments for 1916. Grain Crops.

1, testing two varieties of oats; 2a, testing $\mathrm{O}_{4}$ A. C. No. 21 barley and emmer; 2b, testing two varieties of
two - rowed barley; 3, testing two two - rowed barley; 3, testing tw
varieties of hulless barley; 4, test ing two varieties of spring wheat; testing two varieties of buckwheat;
testing three varieties of field peas; testing two varieties of spring rye; testing two varieties of soy, soja, Japanese beans; 9,

## Root_Crops.

10, testing three varieties of mangels; 11, testing two varieties of sugar beets for feeding purposes; 12, testing three ing two varieties of fall turnips 14 testing two varieties of carrots.
Forage, Fodder, Sillage and Hay Crops. 15, testing the planting of corn at six distances in the row; 16 , testing
three varieties of millet; 17 , testing two varieties of sorghum; 18, testing grass peas and two varieties of vetches; 19, esting rape, kale and field cabbage,
20 , testing three varieties of clover testing two varieties of alfalfa: testing four varieties of grasses.

## Culinary Crops.

23, testing three varieties of field beans; 24, testing two varieties of sweet

Miscellaneous Experiments.
22 , testing two varieties of potatoes; grain production; 30 , testing three grain mixtures for fodder production. any one of the experiments for and apply for the same. The material
will be furnished in the order in which the applications are received, while
the supply lasts. Each applicant should make a second choice, as the material
for the experiment selected choice might be exhausted before his application is received Aha to each
will be furnished free of charge to
eplicant and the produce will applicant, and the produce will, of
course, become the property of the person who conducts the experiment. Each person applying for an experiment
should write his name and address very carefully, and should give the
name of the county in which he lives. O. A. C., Guelph. Director.

## Gossip

Ezra
tario, writes
"The cate" that he has recently concluded an officiactest of his Holstenn
Alice Mechthilde Lass, No. 15833. Her and 23.837 pounds of fat, or the equivalent of 29.796 pounds of butter. In fourteen days she made 1,225 pounds
milk and 47.20 pounds fat, or 59.003 pounds butter. In 30 days she made
$2,605.1$ pounds $\mathrm{milk}, \quad 100.30$ pounds fat, or 125.38 pounds butter, making
as an average for butter-fat for 30 days 3.85 per cent. "The record,"
writes Mr. Schweitzer, "indicates the
writes Mr. Schweitzer, "indicates the
excellent staying qualities, both for
milk and fat." He also writes that

## A Live Tip to Horse Owners



## Percheron Stallions and Mares

All imported from France, four to seven years old, at proven foal-getters, Government approved; first-clas certificates, weighing 1,900 to $2,100 \mathrm{lbs}$. Blacks and grays. am going to close them out. Now is your opportunty Write at once for particulars and come.
J. B. HOGATE,

Weston, Ontarlo

## Imported Registered Stallions and Mares

In Percherons we have our very best to offer: Blacks and Grays, 3 to 5 years old. Belgians ase
 these are over 3 years old, all saie in foal. If you want a Champion Stallion or Mare, come alom
and we will sell for less money than any other man in the business, and terms to suit.
Grenville is situated midway between Ottawa and Montreal., on the C.P.R., C.N.R. and G.T. J. E ARNOLD GRENVILLE, QUE.
For Sale-An Imported Clydesdale Stallion ${ }_{\text {ing }}^{8}$ years old, weigb bay, nicely marked with a white face and four white legs. A sure foad-getter and a good worker. Bees
here for five years, and scores of his colts are to be seen. Price $\$ 1,000$ cash. No second price or termi HENRY M. DOUGLAS, Central Hotel, Elmvale', Ont. Quality
the best IMP. CLYDESDALES IMP. $\begin{gathered}\text { Breeding }\end{gathered} \begin{gathered}\text { Strengthened by my } \\ \text { Unsurpased } \\ \text { November } \\ \text { importa }\end{gathered}$ tion I can now supply Clyde. stallions with the big size required, the flashiest kind of quality
and the most popular breeding. Also Clyde. mares and one right choice French Coach stallion. AMES TORRANCE, Markham, Ont.
ABERDEEN-ANGUS HEIFERS IN CALF We are offering at reasonable prices a few two-year-old heifers that are in calf to
our choice herd bulls. These helfers are by imported sires and dams.
$\underset{\text { Prices Reasonable }}{\substack{\text { Clydesdale Teams } \\ \text { PARKIN FARMS } \\ \text { QUEENSTON, } \\ \text { ONTARIo }}}$
ORCHARD GROVE HEREFORDS
IL. O. CLIFFORD, Robert Miller Still Pays the Freight-And he ig offering in Shorthorng some of the bed some younger still: heifere fit for service and younger, and some in calf, They are of the been
Scotch families, and eome of them from great milking families. They are in good condition and made right, just what you want to make a proper foundation for a good herd, and suitable to im
prove any herd in the land. They will be priced oo that vou car anford to buy, if you will tell
win prove any herd in the land. They will be priced so that you can afford to buy, if you will tell
what you want. Our business has been established 79 years and etill it growe ROBERT MILLERA. Struffille. Ontart Ouality Scotch Shorthorns $\begin{aligned} & \text { - High-clase breeding-We have fitted for } \\ & \text { immediate eale eeveral extra } \\ & \text { bulle of serviceable age at a } \\ & \text { price }\end{aligned}$ RICHARDSON BROS., Columbus, Ont.
 10 Bulls Jno. Elder \& Sons, Henall, Ont

 DEAL-PURPOSE SHORTHORNS S Mand

WOODSTOCK, ON
Burgesesville Phono SHORTHORNS AND SHIRES
For Sale-A few choice young buls, cows and heifers, of high-clase quality, choice breeding and
from splendid wilking dams. Allo two young gtalling and a few marea and diliee. Prices reasonable
JOHN GARDHOUSE \& SONS, Weston, Ont. C.P.R., G.T.R. \& Electric Rallway L-D Plope

## Great Shorthorn Sale



Wednesday, March 29th, 1916
At Fraser House Stables, London, Ont. THIRTY-FIVE YOUNG BULLS include the best individuals that have been at public sale in Ontario in years, some from Record of Performance cows.

THIRTY HIGH-CLASS HEIFERS that will please the most exacting, the older ones well along in calf. Mainly of first-class Scotch breeding and bred along dual-purpose lines. Many from heavy-milking dams.

The consignment consiats of selections from the herds of J. T. Gibson, J. Watt \& Son, Harry Smith, The Nicholsons, Herb. Lee, Wm. Waldie and others.

Freights to any point in Ontario to Ontario purchasers will be refunded by the Ontario Government. We are making a special low rate to the Western Provinces.

Write for catalogues, and plan to attend the sale.
T. E. ROBSON, Auctioneer.

HARRY SMITH
Hay, Ontario
Manager of the Sale

## Dairy Shorthorn Bulls

From 12 to 14 months old, from good dams and by our stock bull, College Duke -85912=. Address-

## Weldwood Farm

Farmer's Advocate
London, Ontario

## Twenty Imported Bulls

These imported bulls, along with 10 home-bred bulls, may now be oeen at our farme. There are some choice onee among them. We also imported four cowe and a heifer,
all of which are forward in call. An invitation is extended to anyone interested io
this class of stok to viesit ue at any time. Correspondence will receive our moet
careful attention.
Burlington Jct., G. T. R.
Burlington 'Phone or Telegraph,
J. A. \& H. M. PRTTIT

## The Salem Shorthorns

are headed by "Gainford Marquis" (Imp.). Records prove that he is the greatest Shorthorn show and breeding bull in existence.
Special offering: Eight bulls from eight to fifteen months.
J. A. WATT,

Elora, Ont., G.T.R. \& C.P.R.
Escana Farm Shorthorns
FOR SALE: Two imported bulls, proven valuable sires; 12 bulls, 10 to 20
months old, all by imp. airee and from high-clase dams; aloo for a ale, 20 heitere
and yound als and young cows, several with calves at foot, all of very choiceat breeding, and especially suitable for foundation purpoes.
Mail ordere a epectalty. ITCHELL BROS.

Burlington P.O., Ontarle

4GLENGOW SHORTHORNS AND COTSWOLDS Pure Scotch in breeding, we have an exceptionally choice lot of bulls for this aecoon
trade, ranging in age from 8 to 15 monthe, big meltsw fellow and bred in the purple
Also ram and ewe lambe of first Wm.Smilth \& Son, Columbus, Ont. Myrtle.C.P.R.,Brooklin.G.T.R., Oshawa,C.N.R "Maple Hall Farm " Shorthorns $\begin{gathered}\text { Three choice young, bulls, eight to } \\ \text { twelve monthi } \\ \text { old; } \\ \text { elloo youget }\end{gathered}$ -. BIRRELL $\&$ \&
BON Stations: Greenburn, C. N. R., Clarement. C. P. R., Plckerlng, G. T. R. OAK LODGE STOCK FARM
and
Will be sold at a price that will please customers. d. B. BRETHOUR \& NEPHEWS

Questions and Answers. Miscellaneous.
 on in their lactations, perioo it it would
be best to add a little laxative to the milk The first few feeds may be given
with a spoon, but they will soon learn to drink from a shallow trough.

## Fatality in Sheep-Cracked Heels.

 1. There is some disease among my sheep. They take sick suddenly, actstupidly and appear blind., but regain sight in a few hours. They stand with heads up and breathe heavily They refuse to eat. One made a spontaneous recovery in about a poek. Another died in about two weeks. A third is sick now.
years Horse struck his fetlock two years ago. The limb swelled and scratches developed. I treated it and
it got all right, but when standing it gor all right, but when standing after
a hard drive, if asked to stand over, he would sometimes lift the leg sideways, but never went sore or lame. Last winter the same occurred, and I again treated successfully y now the parts are
swollen and cracked agin swollen and cracked again.
Ans.-1.
digestive trouble. Purge with 8 indicate raw linseed oil and follow up with 10 grains nux vomica three times daily. If the bowels do not act freely in 24 hours repeat the dose of oil.
2. This horse appears
to cracked heelse appears predisposed far has given good results, and it might be wise to adopt it again. I would
advise purging with $: 8$ drams aloes and 2 drams ginger, and following up with 1 oz. Fowler's solution of arsenic three times daily for a week, and dress-
ing the cracks ing the cracks three times daily with
oxide of zinc ointment which has been added' 20 drops of car which has been added 20 drops of car
bolic acid. Keep clean and dry as possible and do not wash.

## Gossip.

A. Groff's Shorthorns and Yorkshires. There are not many of the higher Class herds of Shorthorns in this country
that at some time in the last twentyfive years have not been materially strengthened by the addition of one
or more animals purchased from the well-known Grof herd near Elora,
Ont. This herd has turned out many Ont. This herd has turned out many
choice Shorthorns, whose breeding left little to be desired, Miss Ramsdens, Duchess ${ }^{\text {Cruickshank Lady }}$ Fanny,
Merry Lass, and Minas, the get of such famous and well-bred bulls as Imp. Proud Gift, Imp. Joy of Morning,
Valley Farm Argonet,
Royal Hero etc. At the present time at the head, of the herd is Roan Winner 92685,
by Imp. Royal Winner; dam Mis Groat 2nd, by Imp. Scottish Pride; grandam, Imp. Meg Groat. He is a
roan of great scale and splendid balance The several sons of his for sale look like developing into herd headers of sterling worth. One is a red, 10 months
old, a Miss Ramsden, this is an extra old, a Miss Ramsden, this is an extra
choice young bull of heavy, even flesh. Another is a roan yearling, Lady Fanny.
Another is an 8 -months-old Merry Lass. Another, Lady Fanny, is 7 months old. Still another 7 -months one is a
Mina. These are for sale, as well a limited number of heifers. In York-
shires for sale are some choice 8 -month shires for sale are some choice 6 -months
old sows. Minnies and Colston old sows. Minnies and Colston Sallys, younger ones of either sex. For par younger ones one erther bex. For par-
ticulars write A. Groff, R. M.


## CLAY TILE

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## Cotton Seed Meal

LINSEED MEAL

H. Fraleigh, Box 1. Forest, Ont.
alloway lodge stock farm
Angus, Southdowns, Collies
Special thie month:
Southdown Prize Rame
ROBT. McEWEN, R.R.4, London, One. Elm Park Aberdeen-Angus Sur herd ha headed by Beaurya Erwin $=$ By36doo 1011 . He Ho out of our cham loo coa Ge io aselated by molon bull at Chicaso 191
 IAMRS BOWMAN,
Tweedhill tuo femake. II you want anything ta thit ife Wameo Sharp R. R. A. Terra Coren, Ootanto
ANGUS BULLS An young bulle red, from 4 to 10 monthe old. Reaeonable prico
lor quick aale aleo belferr. M. G. RANSFORD. Cllnton, Onearlo Balmedie Aberdeen-Angun-Get Ahe hich cha mponon oteers. I have ahow-ring quality buill
Irom 10 to 24 mon the of age; aleo choice 11 and and 2 -year-old hetiferais $\begin{aligned} & \text { T. BROADFOOT, Pergue. Ont. }\end{aligned}$
 bull. Black Abbot Prince, and his Toronto an on the same. John Lowe. Elora. Ont.. R.M.D.
Aberdeen - Angus - A few choice
 "Grape Grange" Parm, Clarksbure, Ontario.


## Simonds Crescent Ground

## Cross-Cut Saws






 Simonds Canada Saw Company, Limited, Montreal, Que. Vancouver, B.C. St. John, N.B.
Always buy a saw with a sharp cuting edge-not a soft saw-because the former lasts longer and beeps itsedge beter,

## Good Luck

COTTON SEED MEAL CALF MEAL OIL CAKE MEAL FLAXSEED GLUTEN MEAL POULTRY FEEDS
SEED POTATOE SEED POTATOES
SEED GRAINS
Write for prices.
CRAMPSEY \& KELLY
Dovercourt Rd., Toronto, Ont.
SHORTHORNS


Stewart M. Graham, Lindsay, Ont.
1854-Maple Lodge Stock Farm-1916
d quality and choice breeding. Come and
MISS C. SMITH, Clandeboye,R. R. 1, Ont.
Farm one mile west of Lucan Crossing - Telephone
Pletcher's Shorthorns Our herd of pure



Shorthorus bulle for itere vis, name wize.

MAPLE SHADE FARM SHORTHORNS The products of this herd have been in very strong demand. There's a reason
Can always supply a good young bull at a price which will make him always supply a good young bull at a price which will make him
well worth the money. Not many females for sale but W. A. DRYDEN,
Brooklin, G. T. R. C. N. R., Myrtle, C. P. R. Spring Valley Shorthorns $\begin{gathered}\text { ierd beaded by the twit } \\ \text { (imp.) } \\ \text { kreat } \\ \text { (ireeding } \\ \text { bulle }\end{gathered}$
 or use on grade herds. Some sired by (Imp.) Loyal Scott; alsoll at a tight price, for herd beaderl

Shorthorns and Shropshires ${ }^{-T}$ T. L. MERCER, Markdale, Ontarioyoung cows in calf, heifers from calves up, and young bulls from to to 18 month, we can suppl;
bred and well feeshed. In Shropshires we have a large number of rem and ewe lage richly
Toronto 1st-prize ram; high-class lot.

 JOHN MILLER, Ashburn, Ont. Myrtle Sta., C.P.R. \& G.T.R.
Spruce Glen Shorthorns



Questions and Answers

Fatality in Calves.
I have lost two calves at about e
weeks of age. Was feeding skim
milk, calf meal, turnins, rolled milk, calf meal, turnips, rolled oats
oil cake and clover hay. They tool oil cake and clover hay. They tools
diarrhoea at 4 weeks of age, and in a diarrhea at 4 weeks of age, and in a
few days a swelling appeared on their lower jaws about the size of a hen egg,
and was very hard. The breath wa! fetid, After one died I opened the
lump, which contained a white granulump, which contained a white granu-
lar substance. There was also a patcb lar substance. There was also a patch
on one side of the tongue. Now a third calf has a lump on its jaw, but has not
diarrhoea. Ans.- The diarrhoea was doubtlese
caused by too heavy feeding If caused by too heavy feeding. If possi-
ble give some whole milk, but whethes whole or skim-milk add to it $1 / 4$ of its bulk of lime water, in addition give a little chopped oats with the hulle
sifted out, a little oil cake, and a sitted out, a little oil cake, and a
reasonable allowance of good cloves hay. It is not the infectious form ol diarrhoea, else it would attack them at
an earlier age. We do not understand an earlier age. We do not understand
the nature or the cause of the lumps you the nature or the cause of the lumps you
mention. It would require a personal examination to enable a man to give a would be wise to call in your veterinarian

## Micecllanoour.

Lump Jaw
About a week ago a two-year-olo
steer showed a swelling under his jaw In examining it I find a loose lump close to the windpipe, just below the
jaw. It is still swelled and the lump is bigger than an egg.

1. Will this develop into lump jaw 3. Is it contagious before it brealo and runs? 4 . What is the cause? Is it from an injury? The animal is in good condition 5. Will it come back if killed now. or will it breed in cattle?
6 . Do you think it would be caused from feeding barley straw?
2. Do you advise feeding salt daily to cattle and horses on their feed? 8 8. Is two ounces too much at one
feed? Ans.-1. The symptoms point to ${ }_{2}^{\operatorname{lump}}$. Treatment for lump jaw consista of giving iodide of potassium three
times daily. Commence with one dram dose, and increase the dose by one-half
dram daily until the steer refuses feed and water, fluid runs from eyes and mouth, and the skin becomes scruffy When any of these symptoms become well marked cease giving the drug. If necessary, repeat treatment in thre
months. When the bone is months. When the bone is not in
volved the quickest method of treat ment is to dissect the tumor out. The operation should be performed by a
veterinarian. When taken in time treatment results in a cure.
4 and 6 . Lump jaw may be cansed of the disease to secure a lodging place It is claimed that this fungus has been found between the fibers of pieces of barley, found embedded in the grain in the tongues of cattle. It is supposed that infection occurs by the mouth from cattle partaking of food material carry ing the fungi which obtain entrance through wounds in the delicate mem brane lining the mouth cavity. When
feeding barley straw, the membrant feeding barley straw, the membra
of the mouth might easily be torn by
a barley awn and the disease thu gain entrance. 5 should effect a cure 5. Treatment should effect a cure,
and the disease is not considered to be hereditary. fore horses all the time, but do not know as it matters so much with cat
tle. Some feeders prefer salting their the. Some feeders prefer salting their
cattle with the feed. cattle with the feed.
3. than others, but on an average from one to two ounces of salt will be con
sumed daily if it is available. W sumed if it is advisable to feed over
doubt if is
two ounces.

Marci 23, 1916


Money in !
Manure !
Fow Parmers raalize the worth of farm-


This FREE Book Reveals Immense Profits


TheNew Idea Spreader Co.Ltd. GUELPH - ONTARIO


## April 12th ${ }^{\text {Is }}$ The Date For

## Sale of Holsteins

At Winchester, Ontario,
by edward baker \& Sons,

Cords and others ready to qualify.
Remem. re-
Pontiac Clothat this herd is headed by Count

Our Illustrated Catalogue will be mailed on
requegt.
Edward Baker \& Sons, Proprietors.
Vinchester, Ont.

Questions and Answers. Miscellaneous.

Skim-milk Versus Whey for Hoge Which, in your opinion, is better for milk be fed when warm from the separator or allowed to stand for a time.
-Ans.-Skim-milk is considerably more valuable as a feed for hogs than is whey
It is figured that about 500 It is figured that about 500 pounds of
skim-milk is equal to 100 pounds of corn or other equal to 100 pounds of
800 from 750 to of grain. We prefer feeding the skim-
milk equal milk while sweet, to young pigs, but
for older pigs it has been claimed that for older pigs it has been claimed that
they will be more thrifty on sour milk than on sweet milk. One pound of grain to four pounds of skim-milk
very satisfactory proportions to feed.

Feeding Value of Corn. What is the difference in analysis be-
tween corn of the Dent varieties and tween corn of the Dent varieties and
Southern Sweet varieties? We have Southern Sweet varieties? We have
some successful feeders who claim that Southern Sweet corn gives them better
results. than varieties of corn that are expected to give their feeding value through the grain.
Ans.-We are not prepared to give
the exact analysis of the Southern Sweet variety. The ordinary sweet corn
is very similar to the Dents, according to chemical analysis. The Southern Sweet is a heavy yielder, but we can-
not state definitely its feeding value compared with the Dent or Flint varie
ties. Prof. Day, of the Ontario Agricultural College, is testing out the feed-
ing value of different varieties of corn, ing value of different varieties of corn,
among which is the - Southern Sweet.
and We expect the results of his investiga
tions will be available at a later date

## Alfalfa.

1 have five acres of new land that purpose breaking up in the spring and
sowing to oats and alfalfa. Will alfalfa grow successfully in St. Johns, N. B.
If not, what would you recon
Ans.-If soil conditions are satisractory and the seed is of a hardy
variety we see no reason why alfalfa should not give good results. However we would not advise sowing alfalfa with the first crop on new land, as there
is usually a considerable amount of natural grass grows up, which has a plants. We would prefer croping the plants. We would prefer cropping th
new land for a year or two and en deavor to have it free from weeds and
natural grass, then alfalfa may be sown natural grass, then alfalfa may be sown
with a nurse crop, preferably one bushel with a nurse crop, preeterably one bushe
of barley per acre, in the spring, o sown on well-prepared land without
nurse crop.

## Variety of Corn-Warts.

 1. What variety of corn would youconsider best to grow in this section of the country where the seasons are
short? The soil is a sandy short? The soil is a sandy loam. heifirs, hat her growths resembling
warts on herk. They appear to be loose on the outside of the skine Two
lumps are about one-half the size of hen's egg, and smaller ones are coming They appear to grow rather quickly
I would like you to tell me what they are and how to remove them.
Ans.-1. In a district where th
season is short it may be difficult to season is short it may
grow a variety of corn that can be de
ren pended on to mature, However,
silage purposes, the flint varieties, a Longfellow, Compton's Early or Salzer's North Dakota, and the earliest of the
Dent varieties should give good returns. Golden Glow is a Dent corn which is
claimed to be a quick maturing variety Wisconsin No. 7 . White Cap Dent,
Wailey and Leaming are also varieties of Dint corn that are highly recomvarieties previously named. and may anpear without any apparent cause. A dally application caustic, will
of antimony, or other eventually remove them, but in cases
where they are large it is advisable to dissect them off and dress the raw sur-
faces twice daily, until healed, with a
five-per-cent. solution of carbolic acid.


HOSPITAL FOR INSANE, Hamilton, Ont. $\begin{gathered}\text { For Sale - } \\ \text { varying in are fin } \\ \text { Bulla }\end{gathered}$
 gerveld Fayne Dekol. Prices ripht. APPLY To SUPERINTENDENT. QUEEN CITY HOLSTEINS
 ,
Cloverlea Dairy Farm offers for sale a choice 23 -Ib. bull ready for immedrate service

Clover Bar Holsteins My gpecial offerng just now aut so some cofcial record daice yourn and sired by Count Mercede
 EVERGREEN STOCK FARM - REGISTERED HOLSTEINS



ORMSBY GRANGE STOCK FARM
ORMSTOWN, P. QUE.


2 immediate estrice
beft cower. by Roval Merger II, out of my Also 2 mares, 4 years; 3 imported, registered
Shetland ponies; 1 gelding, Coming ${ }^{2}$ 2. Clydea-
dale mares and filies dale mares and fillies of the very best breeding
and conformation. Apply to:D. McEACHRAN, Ormstown

## Holstein Bulls

$\mathrm{r}_{\text {wo }}^{\text {well }}$ bred Holstein Bulls for sale, one
months, the other 1 year old.
for quick sale. ADAM KNOX, Bright, R. R. 4, Ont
Spruce Grove Holsteins

GEO. COOPER, Willowdale, Ont

HOLSTEINS

LYNDEN FARM HOLSTEINS
 of Canada in R.O.P. test, and sired by Inka Sylvia Beets Posch, the sire of May Echo
Sylvia. champion mills ow of the world for 120 days, and the only bull in Canada with
two 33 - 1 l daughters two 33-lo. daughters. Also the champion yearling bull at Guelph, by the same sire
and another yearling with four 20,000 dams in his pedigree. Also a few richly-bred
young females. S. LEMON \& SONS

## Holstein Cattle

 Herd headed by King Johanna Pontiac Korndyke, a grandson of Pontiac
Korndyke, and a brother of Pontiac Lady Korndyke, 38.02 lbs. butter J. W. Richardson, R. R. No. 2, Caledonia, Ontario Quality and Production are combined in the damot of the voung bul| 1 "r M. I. HALEY Springford. Ont. M. H. HALEI



For Sale---Sons of King Segis Walker

Questions and Answers. Mitecellaneous.

Re Guinea Fowl.
Editor "Thb Farmer's Advocatr" Having seen in Feb. 24th issue of "The Farmer's Advocate", a questios asked about guinea fowl, I would sas,
the hen bird is always, distinguished. by the call "go-back!" "go-bacti" while the male bird makes a noise like "tut-tut-tut." I would like also to
impress upon the minds of the reader impress upon the minds of the readers
that a pair of guineas are very profitthat a pair of guineas are very prof cure for hawks. If a hawk makes its appear ance the guineas make such a noise
that the intruder never stops to ser what it is. A Constant Reader

Material for Stable Wall. 1. How many cubic yards of grave will be required to build a wall 62 b b
44 feet, 1 foot thick and 8 feet high 2. How would you prefer starting the foundation? mow many barrels of cement 3. How many barrels of cement
would be required to build the said wall? 4. Do you think a 12 -inch wall to 5. Is there any use putting three 5. Is there any use putting three
inch tile in the wall for ventilation? 6. Is concrete considered to make
a better wall than one built of stone? 7. What size windows and how many would be sufficient to light this sizr of stable?
8. How many head of horses and
cattle should a stable this size accom modate?
9. How strong should the mixture of cement and gravel be made for the
wall? wall?
Ans.-1. About 63 cubic yards of
gravel will be required to build the gravel will be required to build the 8 feet of wall above ground. If the foundation is built 15 inches $\begin{aligned} & \text { and } 2 \text { feet in the ground it will require }\end{aligned}$ about 20 cubic yards of gravel, or, il built 20 inches thick, 36 cubic yards. 2. The bottom of the wall should
be below the frost line, and rest os be below the frost line, and rest on
solid ground. The depth to which to dig the foundation in order to get be
low the frost line will depend on loca tion and exposure. A trench, 2 feet deep, should be sufficient. On solid ground a foundation 15 inches thicl should be sufficient, but if the ground is anyway springy it would be wise should be put in just below the founda. tion to prevent water standing around the wall. If the ground is dry it lessens
the danger from injury to the wall br the danger from injury to frost. 3. Using gravel and cement in thr
proportions of one of cement to eight of gravel and putting in a foundatios 2 feet wide and 15 inches thick wil require about 66 bbls. of cement. 4. If carefully built, it should be
5. There are more satisfactor 5. There are more satisfacuin methods of ventilation number of three
tile. If a sufficient
inch tile are used they wo 1 no douhs inch tile are used they wosld
aid in ventilating the stable.
6. We do not think so.
7. Five or 6 windows, 3 by 4 fee in size, on each long side, and 2 or
on each end of the stable should furnisb sufficient light.
8 . It would depend on how the stable was arranged. Across one end of the stable, 6 single horse stalis each 5 feet wide, a small box stall, and feed
narrow passage leading from the passage to the passage behind the horset
could be put in. Twenty-two to 24 could be put in. Twenty-two to the feet, depending on the widt would be

 in two rows lengthwise of the stable and 3 feet allowed for each animal,
be tied in each row, and a narrow be tied in each row, and a narrow
passage left at one end. Allowing for a 9-foot passage behind each feet for length of stalls, and 2 feet for widtb of mangers, there would still be room
for 4 box stalls or calf pens each 8 by 9 9. Walls built of one part cement to eight parts bravel have been standing
for a number of years, and appear all


Warch 23， 1916
THE FARMER＇S ADVOCATE．


A Garden of Beauty and Fragrance W ${ }^{\text {Hetrier you love tho }}$
 Hellotrope，Nasturtums and
 Pooproimghters－he many－ fhed Sweet Peas－－ho heary－ ocented Nivolinan－or tho oend proureavo Rianu Ogue the particulat varatiles Which will make pour flower gariden a real salstsaction． Ewng＇s Rellablo Flower Seeds have been delighting beauty lovers for more than forty years．Write for llius rated Catalogue to－day，and If your Dealer hasn＇t Ewing＇s Soods，order from drect． WILLIAM， EWING LiMITED， Seed Merchanta， MoGill St．，

Fernbrook Ayrshires For Sale． Three young bulls，ready for servic，
closely related to the ex－world＇s and to the present world＂ champion，Garclaugh
WLlier bros．，Beachville，Oxford Co．，Ont．

Lakeside Ayrshires
 35758 grand champion at both Quebec
and Sisrbroke．Write for Catalogue． GEO．H．MONTGOMERY，Proprietor，
，Mominion Express Bldg．．
Montreal D．McArthur．Mgr．，Phillpsburg，Que．

## Sird SHOCKWOOD AYRSHIRES



High－Class Ayrshires $\begin{gathered}\text { If you are } \\ \text { wanting } \\ \text { iche }\end{gathered}$

$\qquad$ For Sale－Two Jersey bulls，grandson＇s，Fairy
＇rampon．Toronto 1915 ．Several Berkshire pigs
＇R，wirenners at Toronto and Guelph．

## Questions and Answers．

 Miecellancous．On the Peace River District． The following are questions sent to District，Alberta，after reading an article
from his pen，published in our issue from his pen，published in our issue
of Jan． 6 ．They may be of interest of Jan．They may be of interest to readers who contemplate going West，
and to any who knew Mr．Albright or who wish to improve their knowledge west of Edmonton．Mr．Albright ha an article in this issue．
In the last issue of＂The Farmer＇s Advocate，＂January 6，1916，I noticed in reading it．I wonder if you would care to answer this．I am enclosing stamps for a reply．My brother and I
are desirous of locating on homestead land somewhere in Alberta during the coming summer，and would like to
get the opinion and ideas of some one etc．，before starting out．It might say we have both been in the West for
some time．At present some to any particular place．In ，your have described the land very well．In your section what price are horses to
buy on the spot？Are oxen used homesteaders starting up？How far a homestead in the spring？locate any alkali there？Have any wet sea－ sons since you have been there？Could a person obtain employment within nine
miles of homestead while fulfilling homestead duties？Any information you would care to give me I would be ver Míddlesex Co．，Ont．M．J．M．

Ans．－I sincerely believe the Peace River country is the very best objec
tive for the settler of to－day any way you like to Edmonton，then by the E．D．\＆B．C．to McLennan， from which point you may come on
west by rail to Spirit River，and thence o Grande Prairie，or you may take the Central Canada branch northwest
Horses 1
Horses， 1,200 to 1,400 lbs．，of fair
quality may be purchased for $\$ 150$ to $\$ 250$ or $\$ 300$ apiece．High premium on mares now．Oxen may be had at $\$ 150$ to $\$ 200$ per team，and are really
the best for the homesteader of limited means．Three of them make ar limited means．Three of them make a good grass．By spring，steel will be in Grande Prairie and it may Btill be
possible to locate a fairly good（though perhaps scrubby）quarter within fiftee twenty miles from the end of steel There is little or no alkali
Last season was wet，but not to wet for cropping．Weat， You could probably obtain employ man right now
Freight rates are high．If you come ban be filled on the spot．Of course， if one had a lot of stock and machinery that he could not sell without heav along，but it is a nuisance to pros pecting homesteaders．The country is so big，and one is never sure in just
which part he will choose to locate． Grande Prairie is already pretty well
taken up，though there are scatterin homesteads，and I strongly recommend this locality．

Having sold my farm here I am coming West this spring in sou would please any land to be had at a reasonable cost in your district．I would like
about 640 acres in one block if possible． and some capital．I think by what
I have heard of that place that it must


Ans．－Good land may be bought onsiderable blocks（half to a full sec
ion）at around $\$ 10.00$ per acre．Some ask more，some a little less．A few
fair homesteads may still be had in the
neighborhood als．

## AYRSHIRES

## FOR SALE

A few thoroughbred，pedigreed bull and heifer young calves，imported in dam from a specially． selected imported herd of pure－bred Ayrshires．Write for full par－ ticulars and prices to：

J．and C．C．Ballantyne R．R．No．1，＂Evie＂Stock Farm CHESTERVILLE，ONT

Read what＂The Scottish Farmer，＂Scotland，had to say regarding Messrs．Ballantyne＇s importation of Ayrshire Cattle：

| Bhas just been despatched by Mr．Hugb order of Messrs．，J．\＆C．C．Ballantyne． Montreal，Canada． <br> Mr．Crawford drew from his own herde for eleven of the number，while the re－ mainder came from the celebrated herds of Balmangan and Lesesnesock．These were all selected with the profitable com－ mercial idea in view，and were as far removed as possible from the tight vessel， short－teated type．Mr．Crawford＇s own heifers were all by sires which had proof of their breeding qualities．In these were represented sires used at Chapman－ （McKinlay）Holehouse．Whitehill，Hill－ bouse（Howie＇s）Kirkland，Lessnessock and Netherton，and in every case these sires had dams，with the very best records． dam，while his sire is Netherton Neptune． by Brae Rising Star．It will thus be seen sire showing some inbreeding of the most |
| :---: |
|  |  |


| Crawford＇s herd in thirty－six weeks． |
| :---: |
|  |  |

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Rattler＇s． 28.10 lbs ．，the latest Canadian champion 30－day butter cow 8 months after calving，and
is hals $\begin{array}{ll}\text { THE WOODVIEW FARM } & \text { Canada＇s Most Beautiful Jersey Herd－Half the herd importe } \\ \text { from the Island of Jertey Several } & \text { cows in the Record of pirl }\end{array}$

JERSEYS

## Brampton Jerseys

 DON JERSEYSTodmorden，R．R．No．1，Duncan Sta，C．N．O．
Shropshires and Cotswolds for Sale Yearling rams and yearling ewes a fes JERSEYS $\qquad$

$$
\begin{aligned}
& \text { We ere busy. Sales were never more abundant } \\
& \text { Cur cows op yearly test never did beter We have } \\
& \text { some bulls for sale from Record of Performance } \\
& \text { cows. These bulls are fit for any show-ring. }
\end{aligned}
$$

$\begin{array}{ll}\text { Claremont，C．P．R．，} 3 \text { miles } & \text { Pickering，G．T．R．，} 7 \text { miles } \\ \text { JILLER，Claremont．Ont．} \\ \text { Greenburn．C．N．R．，} 4 \text { miles }\end{array}$
In

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 joars JOHN W. TODD
e. R. No. 1,


Alderly Edge Yorkshires


| $\begin{aligned} & \text { Prod } \\ & \text { tran } \\ & \text { Lund } \end{aligned}$ |
| :---: |
|  |  |

Pine Grove Berkshires sows bre
Breed. Boars fit for setrivee. Houngs thinss, botil
rexes. from my prizow innink herd.
Avonhurst Yorkabires and Collies We

. Armstron\& \& Son,
suit yout. II am exceedingly well sat
isfied after $21 / 2$ years'
experience. Steel on the Grande Prairie branch of the E. D. \& B. C. is expected to
reach Grand Prairie townsite this reach (March), and may be projected
month montward through Beaverlodge neighbor-
weod this hood this summer, though that is still
quite quite problematical. "The Farmer's ady had written in thought I would Alike to write a to you
and see anc see if you could tell me if there
are any good homesteads to take there
yet yee. Is the winter very cold? Is
there any railroad near where you are? Bruce Co., Ont. Ans,--Our average winter temperature is not extreme, though we are subject
to cold spells, especially in Th cold spells, especially in January.
There a are still a few fair homesteads in
in Grande Prairie, and many more in other
extensive areas of the expected to reach Grande Prairie city (30 miles east of Beaverlodge) some-
time this month. It it (time this month. It is already (March
3) lalf-way down from settlement ( 60 miles north of Givande settuement
Prairie).

Questions and Answers. Miecellaneous.

$$
\begin{array}{r}
\text { Filly Has Worms. }
\end{array}
$$

which I have an eight-months-old filly rolled oats, and given her a large box stall to run in. To-day I noticed she
passed white worms 6 or 7 inches in
ength She length. She is thin and rough. What
would you advise to give her? Ans.-Take 4 drams each of sulphate
of iron, sulphate of copper tarta emetic and calomel. Mix and make in
to 12 powders. Give a powder every
night and morning and when the night and morning, and when the last
has been given, give six ounces rav has been
linseed oil.
Calf Losing Hair-Lump on Calves

$$
\begin{aligned}
& \text { I. I have a calf about } 6 \text { or } 7 \text { weeks } \\
& \text { old which is losing all its hair. } \\
& \hline
\end{aligned}
$$ 3 of them in the pig-pen, and feed then skim-milk and hay

2 Two of the above calves, and one
which is tied in the cow stable have which is tied in the cow stable, have
lump jaw. Can you give me the cause 3. I cut down a big willow tree ago, and the shoots grow from the yeurs
every year. How can I kill this with ou Ans.- 1 . Symptoms would, point to
some parasite working oon the body of
the calf. Isolate the calf affected and the call. Isolate the calf affected and
whitewash the permises in order to to
prevent the spred of the parasite,
as it may be contagious. If there is a prevent the spread of the parasite,
as it may be contagious. If there is a
scurf ony the body of the calf, moisten
with sweet oil to with sweet oil to remove it, then dress
the parts affected with tincture of
iodine daily until cured.
2 2. It is rather singular that a number
of calves should be affected the same
way. Withou a personal examination
it is rather difficult to say just what
the it is rather difficult to say just what
the lump are due to. We ars inclined
to think that the growthe are tummors
rather than lump jaw. If they art rather than lump jaw, If they ars
tunhors they could be dissected out , the
wound stitithed, and then dressed three


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March 23, 1916

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(Government Standard) No. 1 Red Clover................ 816.25 No. 2 Red Clover 15.75
13.00 No. 1 Alsike

No. 2 Alsike \begin{tabular}{l}
13.00 <br>
<br>
\hline

 No. 1 Alfalf $\qquad$ 

........ 12.00 <br>
\hline.... <br>
16.00
\end{tabular} No. 2 Thimothy .................... 5.50 No. 3 Timothy ...................... 5.00 White Blossom Sweet Clover 12.50 Terms cash with order. Bags

Batran east of Manitoba of $\$ 25$ or over we pay the freight. ship back at our expense. TODD \& COOK

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| .. .516 .25 |
| 15.50 | - ALSIKE $\begin{array}{lll}\text { No. } 1 \text { Extra Noo } 1 \text { for purity } \\ \text { No. } 2 \text { Extra....... } & 12.50 \\ \text { Exa }\end{array}$ TIMOTHY

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No. 2 appearance...... 5.50 Haldimand grown-Alli sold.
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Bags are 25 c . each extra Cash must accompany orde Ask for samples if necessary.
We also have O. A. C. No. 72 Oats at 75 c . in 10 bushel lots , in 20 , each. bush. lots. Jute bags, 7c. each The Caledonia CRAND TRUNK ERTMWAM Are You Going West?

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Each Tuesday ARGH 7TH TO OCTOBER 31ST ickets valid to t date of sale. WINNIPEG and return $\$ 35.00$ CDMONTON and return $\$ 43.00$ Toportlonate low rates to other points in
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THE FARMER'S ADVOCATE


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HE picture shows a house
equipped with Gurney-Oxford equipped with Gurney-Oxford
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attic, is filled with a natural, balmy attic, is filled with a natural, balmy warmth, just exactly the amount of
heat the owner wants. You can have heat the owner wants. You can have
this, too, without waiting to build this, too, without waiting to build.
Your present house can be made as comfortable as the finest city home at small cost and little bother.
A system of pipes leads from
the Boiler all through the house he boiler all through the house, and
back to the boiler. These pipes are full of hot water, which is kept in circulation by the heat in the boiler

The hot water runs through radiators in the various rooms, and these give off just the desired amount of heat. No "water system" is re quired, a few buckets of water placed in the system in the fall last all
through until sprink. No trouble at all.

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Heats the air without clanks ithout addimg gatses, without

It means that instead of the winter months being a period of dreadful days and dreary nights, they will become a period of comfortable rest and preparation for next seed-time and harvest. It means longer life to you.

It means that you and your wife and children will be healthier and happier. It means that the children will not be anxious to run away from the farm to the city as sjon as they can paddle their own canoe.

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You say "What does it cost?" We reply "It costs little, very little." A small outlay at first, yes, but in the long run nothing. You will save on fuel and doctor's bills in seven to ten years what the whole you a life stem costs. The heating system will last dends of health and pleasure. Noid your family diviing system on yun will mak the so, but a heatmore attractiv. I

T means one fire only, to heat
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