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Vol• XLIX

## EDITORIAL

## Buy seeds early, and get the best.

So far the winter has not been very "surly.
The agitation for a better recognition of agriculture has not boen in vain.

Prepare to sow the kind of seed which will eonure a good crop in 1914

The man who will need an exfra horse in the spring would save money by buying early.

By repairing implements alu sachinery now you are preparing for the season which is approaching.
The season of new-milk cows is at hand. start now to weigh the milk and place each cow on a fair basis. $\qquad$ .
We recently read an enquiry for grass seed which contained this statement, "No. 1 quality not necessary." It is always necessary.

The United States has removed the embargo n arms entering Mexico from that country. If the Mexicans must fight this should hasten the end.

Which is the most likely to grow into a profit ble cow, that good heifer calf from your own nigh-producing cow, or a nondescript heifer pur

Sir Edward Grey, in a speech recently deliver od at Manchester, England, stated that compet tion in armaments would eventually lead to isaster, and ruin the prosperity of Europe. I persisted in there can be no other end

One may retail sausage over a counter, shovel coal or guide the destinies of a street car with a moderate stock of capacity, but when it comes olved call for a full endowment the problems in

The
The members of the various live-stock associations who did not attend the annual meetings held last week in Toronto should not complain i ges were not done according to their wiews. ach should attend and support his own ideas.

A fake promoter has been rounded up in To conto by the police selling thousands of dollars worth of stock to gullible town folks in an illumination project contrived to light whole farms and enable farmers to plow all night. This is probably another scheme to pull down the cost -

The Last War in the World" is the title of a lurid article in the Century Magazine by H. G. Wells, who describes a fearsome aeroplane conover Germany, the cities of which perish in cataclasm of falling bombs. People may raise their eyehrows over the notion, but its i:o phan tasy with your military enthusiast. The audaburdens which he conceives new schemes and passes belief. Francen a long-suffering people public national subscription for a million-dollar aeroplane war fleet of 210 craft, military air posts and pilots all ready to fight. It is to be hoped that the last war will soon be over to be hoped

LONDON, ONTARIO, FEBRUARY 12, 1914.

Aiding Agriculture and Promoting Peace.
When the great niations of the world ar straining every nerve in a useless competition of curred in an endeavor to overcome the danse in war by preparation for war increases, it would seem that the groat peet Toul two years ago predicted, then who-seventy in which the great navies of the world a perld navies of the air, the war drum would molone throb, and the battle flags would be furte "In the Parliament of man the Federation world" had thrown out a prophesy which would never come true. But turning from the propar tion for strife, which is continuously going the naval yards and the armor manutacturi plants of Europe to the public opinion which gradually gaining ground in the New world see the beginning of the fulfilment of the prophesy.
People are commencing to understand that there are many industries more deserving of ad facture of munitiose connected with the manuin the mar. This was evidenced down in the ductions we expendilures expenciares, and at the same time a very ncouragement of ariculture, the ble for the $f$ this country was made. This isic industr. or which the was made. in a is to be hoped that as time goes on tha it edent now ablished will bees on the pre elrengthened and that wore maintained and hings that really make and more will the nd ended to those in ended to destroy be restrained.
We must agree with the writer, who away back in the seventeenth century made bold to state in those troublous times that peace is解 on, and king ease which there is peace, which oniy makes men dwor at hands, and improve on the advantages which the air and the cima and the soil administers • hem, and which yield no comfort where there is o peace.
A larger grant to agriculture tends towards the enlightenment of the people with regard to and connected with that noble calling. It cannot help but improve the advantages of the man on the land, and thus work for the good of the hation. What benefits the producer must ultimately help the consumer. Iet us have more for agriculture and a stronger sentiment for peace.

## Who Does Your Thinking

he businss of agriculture is too importent to the man engaged therein to permit of his be fig the dupe of men engaged in other occupa ions, and who have more time to exercise their hinus and hess work for their hands to do than has the busy tiller of the soil. Every man, no natter what occtipation hee is engaged in, should to his own thinking. This is especially true of the manager of a business like farming. Too often the man on the land sees himself as nothing more than a laborer, never allowing his mental faculties to become developed to such an
extent as to very materially lessen his manual extent as to very materially lessen his manual
labor. He seems to think that tit is enough for:him to work with his hands. True, a man who works
at hard, bodily labor, long hours each day, has not the same opportunity to do deep studying of important questions as has tie man whose business is to do nothing else but turn such matters over in his mind. However, busy as the farmer may be, he has atill time to think. In fact much of his work should inspire thought. Driving a team in the field gives him plenty of opportunity to turn various matters over in his mind. He is right on the spot, and who is in a better position to weigh carefully, in his mind what the farm needs in the way of cultivation, general management, and varions other items connected with its operation ? Then too, he should be able to ponder in his own mind the large public questions of the day. The average farmer of the twentieth century is, comparatively speaking, and certainily ought to be, a well-read man. Very often he knows much more about public affairs and the large questions which are puzzling the minds of parliamentary leaders than do many of his city cousins, but many people are readers who are not thinkers. Good papers, magazines and books may do much and do accomplish a great deal in molding public opinion hut the man who passively takes the thovight of another. word for word does not disgect and weigh it in his own mental balance and form his own unbiased judgment can never hope to be anything more than a mendicant in the realms of thought. It is the man with ideas that is mat ing most out of life for himself and for the community at large Good judgment loes not comceed from mental inactivity and great success is not accomplished by men who allow thers to form their opinions for them. We others to the readers to digest more of what they read. ponder it in their minds, in other wordo think or themselves. Getting other people's opinion is a valuable asset to a thinking man but acting upon his own if good judgment is used is far more important and valuable. Use good reading to aid, in thinking, and by all means think

## The Peril of Poor Seed.

It may seem rather early in the season, but in really is none too early to commence preparation for next spring's seeding operations, If quired for the cultivation of the soil and in reparation for the seeding af the sorl and in preparat and if the seeding shouid be carefully gone purchased at once, and otted for the fild
Even more
Even more important than this is the selection of seed to be sown. The earlier the seed is in the ground, after the time when the soil has eached the proper conditions for seeding, the etter the chances for a good yield. Thus it is mportant that when the warm days come and he soil is dry and ready for the seed, that no time should be lost and so it is necessary that the seed be got-ready at this season. Every day ield yield.
Plenty of time should be taken to properly lean the seed, after it has been purchased or selected from the bin in the granary. The loss from sowing an inferior quality of seed can scarcely be estimated. Experiments carried on the Ontario Agricultural College have shown that from large seed of barley 3.4 bushels per acre more is produced than from small seed, each quality being plump, while the difference between the large, plump seed and the shrunken was 7.8

The Farmer's Advocate

## AND HOME MAGAZINE

THEE LIRADING AGRICOLTURAL JOURNAL IN THE DOMINION.

##  jomi whid, managrr.



THE WILLIAM WELD COMPANY (LIITED)
ONDON, CANAD
bushels per acre. The variation in oats was even more marked, large seed giving nearly eight bushels per acre more than small seed, both be ing plump, while the large seed gave almost 16 The same is true of wheat, the difference between large and small winter wheat being over six bushels per acre, and between large and shrunken 15 bushels per acre. This is surely evidence enough that it pays to sow the best seed. Several days may be profitably spent is cleaning the seed grain for only a small acreage. Put it nothing but the largest, plumpest seed remains. It is generally wise the first time through to turn fast, put on all the wind possible and blow lighter kinds of weed seeds. Subsequent of the ings should be made, using a coarse screen which divides the large and small kernels, and takes out remaining weed seeds. For these latter the mill it is necessary to run the grain through the mill very slowly. Clean and re-clean and, of seed is being propagated, it may be necegsary to hand pick which will take some time, but it may prove very valuable by getting a superior strain of seed, absolutely pure from which seed Every grain grower who has had to fight the inroads of our increasing number of noxious weed be banished from the seed sown whether it be grain, roots or grass seed. It is not enough to It should be absolutely free from bad weeds Many do not realize how rapidly these pests in crop. Take some of our commoner weeds as an size and growth will produce about the average annually. Quack grass which has given many so ducing from root stocks, but even the average plant of this weed produces some 400 seeds Theld
an averaged-sized plant yielding about 5,000 an averaged-sized plant when disseminated means 5,000 new plants. Ox-eve daisy, the pest of permanent pastures and long-seeded meadows produces 7,500 seeds per plant. Our old friend, the Canadian thie noublesome. but not as difficult 8,500 cate as the we have the perennial seeds per plant. despair and which when it once gains a foot-hold despair aad whe all wether an up lairit crowing branching perennial which has two right-growing. brat methods of spreadin, in in srain root stocks, but still one smail seed in your grain may produce a plan. which our feld One son may spread 2,000 an in wild mustard seed, if it germinates in the grain and grows to full maturity will produce in the neighborhood of $\mathrm{J}, 000$ seeds. to kill of them all, field bindweed, produces per plant somewhere in the neighborhood of 160 seeds, but ralies mainly on creeping root stocks for its spread. There are dozens of others. False flax, a bad weed in some districts, will produce 10,000 seeds per plant. Pepper grass, bad in meadows, grows branching plants which will produce in the neighborthood of 18,000 seeds each. Bladder campion, night-flowering catch fly, and white cockle produce with average growth about 10,000 seeds each per plant.
Think what this means. 0)ne seed of any one of these noxious weeds sown with the grain may mean thousands of seeds t.o be distributed next fall, when the plant which grows from the single intruder matures and scatters the seeds which it has produced. For instance. if one wild oat seed germinates in your oats. arows to maturity, produces 800 seeds, and these 800 seeds, some which wis cull oute you will have the following is cut, germinate, you whe havo the foll be producing 800 seeds. Of course, this is tak ing for granted 'that ali the seeds produced grow. With reasonable care a large number of them would not get back to the land, but once they gain a foothold it is difficult to eradicate them, unless the field is seeded down for a number of care is not taken, the weed will form a large percentage of the crop. This is even more marked in such weeds as rag weed, perennial sow thistle, wild mustard, and other heavy seeders,
Each weed means a loss to the farmer, as it is taking piant food which would go to the debecome thick they also do great damage by crowding other plants, and in many cases smothring them out. One could scarcely conceive in the face of all these facts how a man who has More than wost of us think wield hex seed. mer depends upon the seeding this spring. Large, plump, pure seed, free from all weed pests, sown early means larger yields, less labor and more profit. Get the seed ready now, while-there is time, for the days of spring cultivation are too which should have been done during the winter months.

## Nature's Diary

In the winter fields, and particularly alcong small mammal tracks. These are usually the tracks made by field mice in their nocturnal rammake it up in numbers what they lack in size They are an example of the truth of the saying, as applied to anımal forms as it is to the atfairs of everyday life, for it is not the moose, deer and
bears that cause the destruction, but such small forms as insects and mice. y, destroying farm products. In summer the eat grass and the unripe seeds of grain and
grasses. In the fall, they live on ripened sands of these plants. In the winter, they feed on the made earlier in the season. and on the bark of trees. They also eat the crowns of clover and
other plants. It is in the spring that their work many fruit trees are found to be "girdled" and
by a aingle feld mouse in the course of a year
has been calculated at from twenty-four to $y$-six pounds. At this rate weaty-four to twen-ty-six pounds. At this rate, a thousand mice in crass or other vegetation to maintain them for a year. And a thousand mice in a fair-alzed meadow is a conservative estimate

The damage above mentioned is the usual destruction due to field mice which goes on year aftor year. But when mice increase at such a is immense and at once apparent. the destruction f the European field mouse, which is plagueg allied to our species, have occured in Austria, Germany, France and Scotland. One year, in the district between Erfurt and Gotha, in Germany, about twelve thousand acres had to be re-plowed because of the destruction of the first crop by the mice. During this same plague, $1,570,000$ mice Zabern. The French naturalist, Louis Figule states that "whole districts have been reduced to destitution by this scourge" and also says thet one department (Vendes) experienced a loss of $\$ 600,000$ caused entirely by these animals. Is 1892, large areas in Southern Scotland were overrun by fleld mice and a great deal of damage pointed by the British Board of Agriculture to enquire into the cause of the plague. The commission reported that it was due to the destrucion of hawks and owls, which are the chidf natural enemies of field mice. This wholesale killung of birds of prey was done by the gamekeepars, who regarded them all as enemies of their game, and by farmers. who believed them to be robbers In North America.
In North America, we have so far had no pheare still abundant enough to keep them in check. But if some discrimination is not exercised in the killing of hawks and owls, we cannot foretell how long we shall continue to be free from plakues. It is high cime that the farmer and the hunter realized that there are very few injuriows that none of these birds should be species, and caught robbing the hen-yard
When we consider that the field mouse has rom four to eight young in a litter, and four litters in a season. and that they breed when hout six months old. we can see that we have always present a potential plague, and that it is onlv the work of their natural enemies which pre, plarue brocoma a really An interesting case of the way in which birds number of field mice is given by Prof. Macclemeut, of Queen's University. He states that one autumn the mice became very abundant on Wolfe sland, Ont. So numerous were they, that often man in going from the barn to the house would impale from seven to nine on the tines of a pitchpeared and increased rapidly in numbers, until they became so common that Prof MacClement ound them to average three to the mile, in oriving along the road. The owls made short work of the mice and in the spring the rodents were educed to their usual numbers. In a case like had at looks on the face of it as if the owle had a system of wireless telegraphy, and that "Hunting good on Wolfe Island. Come at once." as a matter of these birds in their southward migration stop wherever the mousing is good, and consequently soon collect inslarge numWhile hawks and owls are undoubtedly the chief natural enemies of field mice. there are other animals which play a part in keeping them in heck. Among these the most important are
skunks, foxes, weasels, crows, shrikes and snakes.

## THE HORSE.

## A Stallion for the Neighborhood.

There are many districts in this country whicb tallion of one of the breerls now recognized were introduced. It may he that. no one man in a money necessary to buy a horse of the best qualtyy, but no district is so poor but that by a litle co-operation amongst the neighhors one of the hest horses could he procurerl. The purchase or farmers to get together and there should be no good reason why such a policy should not
work out. It is a well-recoenized fact that the sire, no matter what the breed or class of stock, is at least one-half the herd or finck produced. The first thing neressary whare a number of
men combine forces in a community to improve men combine forces in a community to improve the horse breeding on their farms is to decidep what breed is best suited to that district. Keep

## Di. Maria Montessor

FEBRUARY 12, 1914

## THE FARMER'S ADVOCATE

eneral thing, be advisable to purchase a Clydesdale stallion where the marem were all of the practice to buy a Percheron for mares of the clydesdale or Shire breed. Cross breeding is ot, under average conditions, to be recommand ed. Having decided upon a breed, it becomes necessary representatives from the club of men tive or representatives from the to be joint owners of the horse should be sent out early in the season to make the selec Tion. It ie generally advisable that one main or horse. If a larger number are sent differences of pinion generally arise and the outcome is dissis a smaller number go a good horse is solact as if a smaler number go a good horse is selsctp by every man belonging to the club. Choose the best horseman to select the horse. Of course, some agreement should be reached before he is sent out, as to the amount of money at his disposal. This he usually knows, because under ost conditions each man subscribes a certain

We must emphasize the fact that it is advisable to buy early. While stallions are fairly plentiful this year, very high-class sires are not made the better the chances of getting the kind of made the better the chances of getting the kind of where an individual is buying a horse for his own use or to the company plan of procedure. If the buyer waits until apring or until the approach of the breeding season it is more than likely that all the good horses will have been picked up and potent, flabby individuals, not sure foal cetters and not good breeding individuals. Such horses must be avoided. Go and see the horses. Look through the stables; select your individual carefully; get one which shows vim and intelligence; size him up from the ground to the tips of his ears; look over his joints; examine his muscling; sist upon size, combined with quality pastern; in the horse with the very light middle. Get the good quality of foundation and aifer that get all the weight you can. When the borse is bought, take him to the home of the member of the company who is to lode aiter him throughout the season. Feed him well, but
do not overload him with fat and see that he gets exercise every day. It means work but this work means a good deal to the breeders in the number and class of colts which they get next season.
We cannot urge too strongly this system for many sections of the country. Of course, there are other sections where individual horsemen make a business of keeping stallions for service
and keep first-class individual animals. In such and keep first-class individual animals. In such
districts, the need for neighbors getting together districts, the need for neighbors getting together
and owning their own horses is not so urgent, but not all districts are so fortunate and it becomes necessary to either breed to the scrub combine forces and drive him out by getting in a top-notcher destined to revive and strengthen horse breering, which has in some instances been is necessary in operating the horse business on this basis that the men interested in the stallion stand together. No "knockers" should be admitted to the little ring which is to own the horse. Ald must agree to stand by the animal Which those appointed see fit to select and re-
gardless of opinion of outsiders give him a chance gardless of opinion of outsiders give him a chance
to do for the horse-breeding industry of the community what it is intended that he should do and what undoubtedly he will do, if the right judgment has heen used in his selection and he turns out as most good horses do.
The farmers of this country need a little more to doing things for themselves sooner they get practice would not in horse breeders of the country. It would help them. The big breeders and large importers are they know that once suited such menif are bure to come back for another horse when the one pre viously purchased has served his day in their community. They know well that such a syste practiced in the districts where horse breeding is gradually forging and in some districts where it is grade und inferior animals off the drive the trouble has been that individuals have hesitated fearing loss, whereas sum of money in a horse, clubbed together and if a number of individuals buying and maintaining the stallion losses and a ould occur, would not be so severely felt the place of the two-hundred-dollar individual owners, who have horseman thrusts upon the mare the horse supply of their district.

Get in the game early. Hold a meeting of the
men who own good mares in the district, and at men who own good mares in the district, and at select your buying representatives and get the stallion in your stalls at as early a datea the sible. It will pay and pay well and once established and properly managed the system is sure to grow in favor.' No one should apply for memare are honest and straightforward enough to do as syndicates have ended disestrously because ofled fact that some of the members have not lived up to their agreement, or that purchasing agents have been "handled" by the horse breeders and importers and in many cases inferior animals are the systam in them. This has meant death to tem that is at fault, however, but is not the sysoperation very often due to one or methods of individuals which have gained access to the syndicate with little purpose other than to wreck it Choose the men carefully and if everything that is done is done right success must eventually fol-
low.

## The Brood Mare.

During the winter there is a strong tendency to do one of two things in the management of the brood mare on the farm. The one tetidency
is to give her extra care and feed and keep her more comfortable than is for her good or is other is to got.o the ongosite extreme with the idea that to produce healthy foals it is neciessary for the mara to get out and rough it with the of the horses.
These ideas are based upon sound logic to a certain extent. The one idea is based upon the fact that the mare requires extra care, the other,
that she requires exercise, and plenty of it. The one feature that is not given enough consideration is that these two requisites should be combined.
There is no particular way in which brood mares must be handled to ensure strong, healthy foals. A score of methods of management and feeding on as many difierent farms will be found all these farms these three factors, comfort, feed and exercise, are invariably given consideration. About this season of the year, mares in foal whase any horses about the yard that they kick or pen to be turned out with, particularly is this


True Movement.
This Clydesdale stallion weighs over 2,000 pounds. He is a good sire, and for
so of horses with which they are not familiar While they may not be directly injured through kicking, a slip or the sudden jump at anothe which there is no apparent cause. Mares turned out for exercise should be put in a yard by them-
selves with their stable mates only, or with on or tolts. A good many mares if fed in the stable will When turned out, stand at the yard gate or
stable doors for hours. To ensure exercise when possible feed all roughage, hay or oat sheaves
outside scattered around in the yard. A little may be lost, but it will be worth while if it ensures the mare taking ejercise. However, it is
taking rather heroic measures to turn the mare out to get her entire feed on the prairie or on out to get her entire feed on the prairie or on
the stubble, and around the straw stagks to obtain this exercise.

When it is possible a box stall is an-ideal place for the brood mare, but as-this can not always be given the ordinary stall with plenty of straw for bedding will serve the purpose.
She should, however, during reasonably fine She should, however, during reasonably fine
weather spend only the nights in the stable, weather spend only the nights in the stable,
spending the entire day outside in shelter of straw stacks or buildings, and with plenty of roughage to pick over
In feeds, absolutely nothing should be fed that
not clean and free from mustiness or plant is not clean and free from mustiness or plant diseases. Dirty or diseased fodder is another of
the sources of abortion for which the owner can the sources of abortion for which the owner can
not account afterwards. As to what constitutes not account fitterwards. As to what constitutes good feed, clean, whole oats in moderation, not doing light work, and all the hay the mare will eat will make a satisfactory ration. Keep salt where she can take a portion at will. If oat sheaves are, fed instead of hay, reduce the oats
fed very materially, unless the oats were cut be fore any grain whatever had formed.
One further point, sanitation of the stable
should be maintained. The stable should be disinfected from time to time, and it would be well to wash the stalls of any brood mares with acid frequently. See that any strange mares or horsés put in, the stable are not put close to the brood mares. These strange mares may have aborted recently, ot both the mares and horses may be carriers of contagious abortion bacteria: When one has staken the trouble to breed a mare, pay the service fee and get the mare well to spend a little extra time and exert a little extra care to ensure the mare carrying the foal to the end of the gestation period and delivering a strong, normalfoal.-Farmer's Advocate
and Home Journal, Winhipeg, Man.

## LIVE STOCK.

## Management of Breeding Bulls.

## Editor The Farmer's Advocat

In order to produce the most desirable resulte, breeding bulls, must receive intelligent treatment and a plentiful sup-
ply, of nourishing ply of nourishing
food The poorly-
conditioned, wornconditioned, worn-
out sire cannot beget healthy a n d
vigorous calves. To vigorous calves. To
be at his best he must have plenty
of suitable food given him at the
proper intervals. Troper intervals. plenty of bulky and
sueculent food, such as clover, alfaifa or mixed hay and
roots or silage, with the addition
of just enough wholesome $\mathrm{graln}^{2}$
foods to keep him loods to keep him
in a vigorous, gaining condition. His
water supply should be of the cleanest and given regular1 y , at least twice a A large and
comfortable box stall gives the bull is more safo and is more sate and
convenient $f 0 \mathrm{~F}$ the attendant in feeda bull pen should and arranged en and arranged so
that plenty of
light will be admit light will be admit ranged that it may be darkened in summer to keep out the flies. He should be kept clean and provided with sufficient bedding material to prevenimals why when getting up and down, as large animais, whose immense weight resting on lheir knees on a hard floor, such as concrete or planle,
are very apt to bruise them and cause entarged. joints.

The care of the animal's feet is another important matter that should be given careful ats
a tendency to cause the hoof to turn up in fron
and prevent the animal from walking squarely on his feet. If the hoof gets out of shape, it should be shaped properly by the use of a saw, pinchers and chisel.
Fxercise is a very necessary feature to the
health and general thrift of the breeding bull. The best way to afford exercise is to have a with one or two fenced and allow him to rum will be more contented than if kept confined alone If kept confined in a small pen where he is con stantly fretting he will have a spoiled disposition.
It is very important to always handie breeding bulls carefully and treat them with kindness It proper precautions are taken there is very lit te danger, yet it is always best to be on the to their nose-ring, as an animal of this class is never safe to trust no matter how quiet he may be. The idea that a bull must be ill-treated to
know his place is a mistake. He is cunning and know his place is a mistake. He is cunning and to even up with you and when he does chance tomper aroused he is a very dangerous animal to os around. It is many times best to put up with a few of his eccentricities than to undertake to club them out of him or you will have a merry Give him a little feed and pet wim, of thinking are playing the role of a Judas. I have handled deiry bulle for a number of years and have neve had but one dangerous animal and this one I bought from a man who was afrgid to handle, him any longer. On the other haadro neve allow an is pen unless he uses a stronestail Th out of him you are his master and he wifine kives up with the program.
As a rule, it is best not to er bull for age, and then he should be used wifteenth of care. If handled properly during the first two years of breeding, he may give good service fo many years. The folly of selling a good bull be nd breeders has been made plain to more than one man who has parted with a good sire. A general thing, it is best never to allow nore than one servic
The young and growing bull should have more leed, care and attention than a mature animal. He needs more exercise to build up healthy and vigorous vital and reproductive organs. This
demands a strong and vigorous body and nervous system. No animal can develop into tha ymmetrical form that he should unless he has lenty of the right kinds of food and good care deither will he be able to beget calves that will be a credit to his ancestry
Good results from the breeding bulls are what we must feed them liberally and furnish them clean and well-ventilated quarters. Handle them quietly and not overtax their vitality by too auch service. The well-kept bull and his calves mers and dairymen We successful stock far eeding the breeding bull that we are feeding hal of the herd, that is, from the standpoint of re production.
Johnson Co., Inl.

## Write Your Member

Editor "The Farmer's Advocate": of Jamuary 22nd, that you are urging the moval of duty from the parts or repairs for trac tion ditchers. A year ago sume of the agricul tural press suggested that readers should writ the removal of duty from traction ditchers know that a considerable numer did soners. satisfied that these letters play did so, and am part in the success that followed. I would su gest that those of your readers who are interest ed in having the duty removed from repairs for of Parliament, asking them to urge that thes repairs he admitted free of duty ticns should come in force that the new regul or by the fifteenth at the very latust, hecaus

Causes of Loss in Animals and Poultry.
That the bovine and avian forms of tuberculusis are becoming more prevalent year after seems evident. In looking over the latest repur
of the Veterinary Director General, which was very recently issued for the year ending March 31, 1913, we notice that the figures given regarding animals condemned as being unfit for human food were 7,258 carcasses and 624.382 portiuns of carcasses. It was stated in this report that this number represents only about 50 per cent. o inion, as not all killing establishments are under inspection. It was further pointed out,that the animals bought for these establishments. which are under rigid inspection, are carefully inspuctod by the buyers, who reject any animal which slaw ral appearances suspicion is aroused. This lue i 1 trie thele is little doubt but that many aninial. which are rejected by the buyers for the inspected institutions find their way to the markot and slaughter housee
Of the number of condemaations, 55 per cent destroyed because they per cent. of the hogs wer and of the condemned portions of carcasses, 20 per cent. from cattle and 90 per cent. from hogs are affected with this disease. Judging from these figures, a large number of the cattle and pigs in this co
There is nothing in the report ic show the which come to this office and from the questions of poultry experts who have occasion to visit locks throughout the country, we know that very large percentage of the poultry in this country is afected by the malady. It is not alquite frequently hens heavy and plump topple over dead as a result of the trouble. Of course they generally "go light" and become pale about show head and very often are lame, but not al dies of this disease a post mortem If the fow will reveal raised spots on an enlarged liver or marked infection of the mesenteries. The diseas is on the increase and those owning flocks on poultry should make it a point to isolate all disease and thoroughly clean up symptoms of While on the subject might be well to state condemned carcasses the Chief Meat Inspector to the Veterinary nireo tor General attention was called to the incroased number of losses due to bruises, cripples and ant mals found dead. A good deal of this loss was occasioned by insufficient care in transportation. Cars are often overcrowded to such an extent as
to cause death to dozens of prime animals. The overcrowding may be due to the shipper trying reduce freight charges per head, but bruising and Triboling cannot he attributed to that cause shunting the cars and very lack of judgment in too freely in abusing live stock while loading

and unloading cars. This is a point worthy of serious consideration and for the purpose of be ing humane and to increase the net returns from each carload shipped the greatest possible care losues may exot be caused by ab the stock that
In this connection another import negleer:
rought out in the report- 98 cattlant point is and 153 hoge were condemned on accous sheep monia. Nearly all these occurred during the weather and the inspector gtates that the disome is due to carelessness apd improper handling,
more particularly in the ctise of swine. How of ten when a farmer is ctise of swine. How of on a very hot day he carries along deliver hogs large pail or bucket which he uses to throw water over the heated pigs whenever he passes a handy pump or running brook! The practice is often continued after the pigs are loaded into thi cars and cold water is dashed over them to rapin this particular would no doubt prevent car very large extent the waste of a considarahle quantity of meat food, which at prevailing price is very valuable. Cold water should be used with discretion in such cases.

## THE FARM.

Artificial Fertilizers, Their Nature And Use---XI
By B. Loslie Emslie, C.D.A., P.A.S.C. R.C.s.
IETHODS OF MIXING FERTILIZERS Machinery for mixing fertilizers is raraly avail able on the farm, but the operation may be easify ordinarily at the farmer's disposai. The ap paratus requisite for the operation are: (a) the ertilizers, (b) the mixing ooor, (c) a shovel he issed as a pulverizer, ( $($ ) as sand screen or screen from the fanning-mill, and (g) a welgh scale. In mixing large quantities, the latter may
anmetimes be dispensed with, but is useful to check the weights
The modus operandi is as follows: The mixte loor be done on a solid, level part of the bar would be preferable concrete floor is available, it hhevelling and crushing could be more easily don thereon. One ton will usually be a sumficien ensure thorough mixing. Sweep the forder empty part of the phosphatic fertilizer, spread ing it level on the floor; on this put part of the pota.h. then the remainder of the phosphate an form of potash. If the nitrogen, either in the is to he mixed with the rest. empty it out b itself on the floor and. with the aid of the lamber or the back of the shovel. reduce the comns. for both of these materials are apt to become caked in the sacks. When the material over the hean. Then take the shovel and ture the head. first to one side and then to the other After doin After doing this a couple of times, the whole
remaining being thrown to one side and after wards reduced and again added to the heap
which may then again be turned a couple of times．It is not ulways necessary to use the screen，but it is usually a great aid to thorough
mixing．After completing the operation in this mixing．After completing the operation in this way，fill the material into t．

METHODS OF APPLYING FERTILIZERS． Fertilizer may be applied either by hand or hachine．Some modern grain seders，potato ing fertilizer，and there are now some makes o broadcast fertilizer distributors on the market
Where large quantities of fortilizers have to b Where large quantities of fortilizers have to be applied，its use a more equal distribution is ensured Generally speaking，we prefer the broadcasting machine to the drill，or to any of the other mechanical devices mentioner．
Broadcasting by hand is easily and simply performed by means of esowing＂hopper＂）or shaped，canvas－covered frame with waist and in the sowing operation and to obtain the proper rhythmical motion，it is important to note tha the right arm is swung backwards from the hop－ per as the right foot advances，and vice versa The length of the stride can be adjusted to the cant is usually about the width of four potato or turnip rows．Preparatory to commencing operations．the fertilizer sacks are placed at con－ and a boy，can perform the work，one or a man do ing the sowing and the other man or boy carry－ ing the fertilizer in a pail from the sack to the
The Rroadcast Sowing Machine．－One of the most satisfactory distributors is of German man－ Canada．The machine is made in varioused in but possibly the seven－foot width will be found the most convenient．The fertilizers are ejected from the box by means of a chain，which runs ongitudinally．Each link of the chain has os projecting finger which sweeps the bottom of the
box from end to end，so that the chain itsel does not come in contact with the fertilizer．The machine can be adjusted to sow from 25 to 2，500 pounds per acre and it＇s mechanism pre venness of distribution is guarante damp，an Broadcasting Fertilizers on Potato
When the sets have been planted in the rows． heavy log，about nine feet in length or long horse over the rows rows，may be dragged by a partially cover the potato sets．The fertilizers are then sown and the rows closed．This method may also be used in the case of roo crops．We wish it to be emphatically under－ lizers at planting time for such crops of ferti－ ed can only be recommended for moist climates． Under conditions which ordinarily prevail，in On－ phosphate）ought to be applied much earlier in thesphate）ought to be applied much earlier in
their solution that the spring rains may aid in or orchard，is an the Levei．－Whether in field fertilizers should be harrowed or worked into the ground with a cultivator，except on sod，where cultivation is unnecessary．In the latter case， however，it is usually possible to apply the fer－ washed into thus have a better chance to get Broadcasting Versus Drilling．－For reasons，which shall be stated，we generally pre fer broadcasting fertilizers to sowing them in the drill or row，although the latter practice has that it saves time by combining the however，in tions of seeding and fertilizing．Our arguments in favor of broadcasting may be presented thus ： （1）As broadcasting ensures a more thorough distribution of the fertilizers in the soil，en－
couraging a more extensive root development Which gives the plants a greot derelopment， and，incidentally，promotes greater feeding area of humus in the soil． tilizers have been supplied will grow and ripen more uniformly．Take the instance of a cereal
erop following a corn crop．where the fertilizers were applied directly in the where the fertilizers
note the uneven hills，and note the uneven erowth ：the rows or hills．and （3）Broadcasting prevents an excessive con－ young plant，which．where very large quantities WIIFN TO APPLY PRRTITH efect． This will be determined by（a）
crop，（b）climatic conditions．and（c）the rate Natur of the Cre fertilizer ingredients．
out iertizers may berop．－For hay and pastures the out of the ground．and，indeed，for most other

## THE FARMER＇S ADVOCATE．

might be advantagenusly and potassic fertilizers is possible to go on the applied as sion as it whe fertilizers may be drilled in with the seed where there is a fertilizer attachment on the ash and part of wheat the phosphate and pot－ in the fall．For fruit trees anght to be applied plication of the potash and phosphate may take slace before the ground freezes in the fall，or as spring．
Climatic Conditions．－In localitios rainfall the fertilizers ought to be applied as constituents as pay in order that their plant food when the latter are ready to make use of them， in moist climates the fertilizers need not be ap－ plied so early，and such very soluble nitrogenous ingly． Rate of Availability．－In nitrate of soda，sul phate of ammonia and dried blood we have three nitrogenous fertilizers，placer in the order of the the slowest acting of the three．．Dried blood is better adapted for the three，and is，therefore， with the other Fiaterials．Nitrats in mixtures oxceedingly quick acting and，therefore soda not to he applied long before the crop is ready sulphamilate its nitrogen．In its rate of action， two．It is often considered deviate between th up a complete mixture to put in cartain making tions of two or more different nitrogenous ferti－ zars to ensure a more gradual and continuous of sode of nitrogen．The special virtue of nitrate readily available supply of nitrogen provides a plant at a time when nitrification in the young only commencing．


An English White Face and Her Calf． Likewise in acid phosphate，basic slag and ture．The Legislative Committee of of Agrico隹 Basic slag and steamed bone flour，being slower in action than acid phosphate，may be expected o give best results when applied in the fall or very early in the spring．For late spring ap－ less on soils containing an excess of acid，where basic slag would be expected to correct the sour condition．
Both sulphate and muriate of potash are
moderately quick in their action and suitable for moderately quick in their action and suitable for being applied in the fall：in fact，if applied at the latter season，their potash－would usually be gives distinctly better spring－sown crop．Kainit he fall，as compared with spring application． It follows then that，where it is found im－ cossible to apply fertilizers early，those materials form will be chosen，

## To be concluded．

## Nova Scotia Farmers＇Association

 Convention．The N．S．farmers met in annual convention program．The practical farmer is slowly going off the platform and the addresses are given inore and more by trained experts from our agricul－
tural colleges and stations．＇This is probably as tural colleges and stations．This is probably as
it should be that these trained men should the teaching of the association while the farmers attend to the prosecution of business．This con－ vention was remarkable for the amount of work
done of an executive nature．The evening meet－
ing for Thursday，29th，was，as usual，devoted participated in jokes and general sociability－ and other personages of greater or lesser note The exhibition commissioners reported a succhass－ ful exhibition，with about the usual entries and the usual deficit．Mr．Fraser，one of the com－ and swin，advocated the moving of the sheep present position away down in one corner of the grounds placed them out of the itinerary of the ordinary visitor to the exhibition．Mr．O＇Brien pointed out that fancy trotting horses received large prizes，while steers and grade cattle，such be interested in，got very little recognition in the prize list，and recommended that more mones be given to the latter and less to the former． was held too many days，that it added exhibition was held too many days，that it added to the ex－ the stock on the ground and added very keeping the attendance or income．The general opinion was that four days，from Tuesday until Friday night was long enough，and this would allow ex－ hibitors to leave home with their stock Monday morning and to be home again Saturday night． nvill probably result sooner or later in shortening the duration of the Provinclal exhibition to one calendar week．
A discussion about better accommodation for tion asking the exhibition comminissioner a resolu－ vide temporary exhibition commissioner to pro－ tables，so that the attendants might each heve a small oil stove for cooking food and a chanee to make up a bed，as now they have to sleep up among the rafters over the cattle in the dattle a provision of the
Federal Government
had made it posit had made it possi－
ble in sections
where sufficient Where sufficient could not be raised
to form an agricul－ tural society，that tion could be form－ ed by ten farmers to whom a pure furnished．
Under this pro－ vision，over a hun－
dred pure－bred ani－ nals had been dis－ vince．It ${ }^{\text {the }}$ was felt that there w a s no need of two sourees passed that steps his live stock dis tributed under tio direction of the the last convention．Short courses in passee ont parts of the Province were being put on，as ndividual country exhibition grants to form fund for a district exhibition was an act passed in line with the resolution aoking for divtrict ox－ hibitions．
Other resolutions were that accommodation be Agricultural College at Truro in the arts and ciences upon which housekeeping and homemak ing depend；that a committee be appointed to hake arrangements for better trai accommode－ pan；that the Government be asked to at Nap－ the tile－drainage act that be asked to so aniencl ow money directly from the Government with out oll the necessary red tape of working through the municipal council；that steps be taken to make possible more rapid and cheaper transporta－ tion of stock to and from exhibitions．
ment of the following：President in the eppoint ment of the following：President，Wm．O＇Brien， Millan，Antigonish；second vice－president，R．S． Starr，Port Williams；exhibition commissioners H．S．Kennedy，Alma；W．W．Black．Amherst， bandman at the Truro Agricultural live－stock hus－ a practical talk on the breeding of animals． While there were cases where dual－purpose cattle had been found profitable，suecess along this line was very difficult to attain，and it was better to take either the beef type or the dairy type and the dairy cow produced more food for human consumption than the beef animal．However，if
a farmer plans for a herd of dual－purpose cows
to The better to have as an alm the production much pill production wis possible. Whal wiver was dosired, however, must be determined on and stuck to and every eflort made to succeed and to thte good care of what you hor success out the poor ones. There wore two ways of starting a herd. One was to buy several good cows. This would be too expensive and after a fow years we would be where we started. Hut if we spend a smaller amount for a good bull we And it is very possible for farmers to combine to purchase a superior bull, one which has a splenitij of his heifers will be at least as good as th average of their sire and dam. Them. it he is a very valuable bull, breed him to his heifers and the average will be reised and his heifers' calve save three-quarters of his blood. Then, if postoo closely related, and we will take another stop forward, and so on, until we attain a very high standard. Violent crosses are rarely suc

Another important factor in breeding is after you get your well-bred calf keep it going by f.ednovertheless true, is that the higher the price of fered the better it paye to feed mell. These mell ted calves will make big cows and the bigger the cow the more foed she will take and the more the will produce. The raising of superior stuck vill also hare its
boys on the farm. Dairy Superintendent McKay
The report of 1913 very encouraging. The butter made during quality. He recommended the establishment of - fow large cream-gathering creameries in lurga conters, rather than a number of little ones, as cream can be carried by rail and enough gatheratated, in his opinion, that there was no better place for dairying in America than Nova Scotia. Miss Jennie Fraser, superintendent of Women's Institutes, gave a very interesting address on the work of Women's Institutes, drawing a dis tinction between housekeeping and homemaking.
P. J. Shaw. of the Agricultural College Truro, gave a practical talk on the renovating of old orchards, while soil cultivation was dealt with by w.'W. Baird, of the Experimental Farm Nappan.

The president, in his address, outlined the agricultural year in Nova Scotia, eulogizing the agriculture in that Province, and discussed the various fairs and exhibitions, all of which pointed to progress.

## Salts Hogs in Winter

Editor "The Farmer's Advocate" :
Perhaps one of the greatest diffulties that the hog raiser has to contend with in winter is
feeding the hogs so they will thrive and do well all winter long. Sometimes they will do well at first and then, just as spring is nearing, they will begin will do back, ant the beginning of ortene ter and never do well during the entire seasnn. When the winter weather sets in hogs that are fattening and other hogs too will appear drowsy
and will cough. They will lie around the pens and will cough. They will lie around the pens and put in the time sleeping and coughing. They ati well and are always hungry, but they get
thin and gaunt and grow worse daily. The feeder thinks that they are not getting enough to eat, as they are always hungry and squealing every time he goes near them, but, of course, pigs
often squeal even when they are fuil. But they are thin and you could count every rib on their
spinal column, and you say, "My those sping poorly, we must give them some more feed." But this will not do. The whole trouble is that the pig is getting too much feed in accordance with the amount of exercise and fresh
air it gets, which causes indigestion. And as it is impossible, in most cases anyway And increase the amount of exercise and fresh air for
the hogs, we have to find some other means to make them thrive. The best remedy that I can find is Epsom salts given aiong with their feed the condition of the hogs, and the amount you double handfuls of salts with two pails of meal ordinary meal that we feed them, and four pails
of water in a barrel, and make a pood slop of water in a barrel, and make a good slop. I would say night and morning. However is you wish to feed it only once a day ther, it more salts in the mixture in the harrel. put If this feeding is continued ior a while you
will soon notice how well the hogs will get Will soon notice how well the hogs will get, and
how they will pick up and show results for the feed you give thom. Perhaps you would say

Arat bought selts for my pigs I went to my Epsom salts, and he ofiered eight pounds for a quarter, but I went to another grocar whete 1 went back the grocer was quite willing to give twenty-five pounds for a half dollar, and I found that that iffty cents was the best investment that I made in 1918 . $\qquad$ farmer's son.

## Another Barn Plan

Editor "The Farmer's Advocate"
I am sending you a stable plan of a barn 75 feet by 32 feet outside dimensions, with a twofoot stone wall nine feet high, which is used on
a 75 -acre farm. The barn was remodelled and made handier. The floor is of cement and the cattle stails are steel throughout. Box stall have iron corner posts with woven-wire partitions, also iron columns that support the over
head floor, which do not obstruct the light very head $l o o r$, which do not obstruct the light very
much. The animals are placed so as not to


Figl.
A Good Plan of Barn for an Averaged Sized Farm.
ing. The stable wix head of The wall behind horses is eight feet of a stand ts 91 feat by horses is fieet wide; box stall. feet wide and double stall is 7 t feet wide is 5 , windows each have four panes 12 by 24 inche and as there are 18 windows there is cartainty, plenty of light. There is a window in each gable end the same size. I use the windows for ventilating, which can be ralsed from bottom or lowered from top. The feed chutes are provided with slides, which can be opened or tosed as det This barn has cement floors throughout. It is also equipped with steel stalls and stanchions. There are two big roller doors, one on each side of manure shed, 8 feet by 11 feet, which malke it handy, as one can drive through from elthir side.

Carleton Co., Ont
LESTER SKUCM

## A Time for Repairs

Editor "'The
separator had been grease thare elbow to expend and than I thought was necessary. It oce curred to me that worn out, $a n d$ I apply to the agent to supply me $\overline{\text { With }}$ a new one. As the money market was erably see wh a t a little overhauling would took the separator to pieces, following manufacturer in ${ }^{\circ}$ covered the Itie Water is in front of every cow, and in the box stall in the cow stable. The plan explains it- had adhered to the running parts, I was not 00 self.
P. E. I.

SUBSCRIBER.

## A Handy Barn.

Editor "The Farmer's Advocate"
I am sending you the plan of my barn which somebody intending to build. This barn is 38 feet by 78 feet. The side walls are 24 feet high that is allowing 8 feet for stable wall and 16 feot for barn. corrugated iron, the side walls being of dressed The

The manure shed is 16 feet by 38 feet and is grooved lumber; the swinging doors are 4 feet wide from stable to shed. Thes there is a ruller short-lived. Some farm machinery is far too door $5 \frac{1}{2}$ feet wide at end of feed passage. This does but little over ninety day'serage binder


## PLAN of BARN $38^{\circ} \times 78^{\circ}$ for 100 Acre Farm

stable will accommodate 22 cows, 10 on one side 11 inches and 4 feet 10 inches; each cow hus 3 feet wide of lloor space, the gutters are 14 cows and 5 inches drop at wall. The feed pass age in front of cows is 61 feet wide, mangers $2 \frac{1}{1}$ each $6 \frac{1}{3}$ foet wide. There are two box stalls one for bull and one for calves, as shown in with one ply of stable is boarded off by itsell there being two-foot trap doors, grooved lumlier, stalls, for feeding. A six-foot roller door of the into the cow stable, which makes it handy clens
had adhered to the running parts, I was not so as that it had run the machine had run heavily gearing and each bearing in coal oil, and rubbed and polished each part till it shone like the proverbial silver dollar. One or two parts had a tritling cost When, and these I replaced at and oiled with a high-grade brand of oil I was as ever. I have no intention in the world of purchasing a new machine. Naturally, my next with was to look over some other machinery Why should not every and happy results. of his year's work every farmer make it a part With a view to cleaning up and making repairs? short-lived. Some say that the average binder However, it must bo the average binder is not well protector against the dust, either during the summera or during
the winter. All the greater, therefore least an annual cleaning. Harrow plows, rakes, drills, hay ropes, every thing overhauled ${ }^{15}$ detail. All these
weaken or dull with weaken or and with the weakening of
dulling is sure to come loss and danger. Every day has
its story of acele dents $t h$ at ensu upon defective farm It is no unusual sight to see the thrifty " the remains of the farmer's on to the junk shop while the farmer is replacing the old and misused of trade," smiles the manufacturer and the agent. Imperfect or defective machinery meanis and disappointment. an inopportune time has frequently grong ac tically a ruined field of grain. A defective has rope has endangered life as well as involved loss. The moral of it all is that the farmer should make during the winter months a thorough sur-
vey of his equipment, watching for missing bolti

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## THE FARMER'S ADVOCATE

## THE DAIRY.

## Avoid Disease Dangers in Buying Cows.

dairy herds seems of comment that disease in dairy herds seems to be in some districts on the
increase. We hear considerable abortion and tuberculosis as being contagious very worst diseases with which the cattle owner has to contend. A man with a healthy herd of cows requires to use a little care in the selection to pay a high price for a his herd. It is better is healthy in in every particuiar that you are sure to carry the germs of a dread contacious dieely to the herd than to buy an animal cheap, about which there lurks a suspicion that something
must be wrong else she would not be offered for nule. The erg else she would not be offered for cows here and there throughout certain districts and shipping them some distance and holdistricts auction sale, spreading them among the herds in the new district is very often, we believe, re sponsible for the spread of contagion. Far beter would it be for the man who wishes to add tho have cattle himself to the stables of those He should look into the conditions under which thay have been kept, and find out as much which can about the cow which he selects. Cows bought in car-load lots to be resold to the individual farmers are usually purchased by the original buyer takes little pains to find out the pest history of the cow, and there is always the shadow of a doubt about such an animal, no matter how good she may appear. Even where cows are salucted from the herd by the purchaser himself. a certain araoust of danger must he be questioned carefully in each case, the seller should find out as much as he can about the herd. A pretty good indication in most cases
is a number of healthy, robust calves. This is a number of healthy, robust calles. This
shows that the cows are regular breeders, and shows that the cows are regular breeders, and
that contagious abortion has not gained a foot that contagious abortion has not gained a foot-
hold in the herd. The buyer should keep nie eyes open on all orcasion

## Injury from Neglecting Milking

 the secretary of the London (Ontario) Humene Society complaining of cruelty to dairy cowsEditor '"The Farmer's Advocate":
Among dealers who conduct auction sales neglect milking them for 12 to 24 hours posely selling them. This is done in order that the may have "a good appearance for milk," as one dealer was heard to express it. This is, of
course, a fiendish practice, as it results in oxcourse, a fiendish practice, as it results in ex-
treme pain to the animal, and frequently in permanent iniur The "dele", fiequently in per from the dairyman or farmer buys these animal cumstances, as they have been recularly milked In justice to the animals, he should, when selling them, be forced to offer them for sale in the same condition. It is most unfair to the pur chaser, and the only redress he has is to refuse to
buy an animal unless it be in this course were adonted the good condition. cease. However if this practice doen soo in the near future, the London Humane Society will be forced to prosecute those "dealers" who still persist in this cruelty. The inspector this society has the matter in hand and will at tend these sales, and so feport on the matter.

## HORTICULTURE.

Insects Attacking the Tomato

Editor The Farmer's Advocate

There are several different flea beetlés which important is the potato flea beetle (Epitrix most cumeris. This is a very small species, measur-
ing from about one-sixteenth of an inch twelfth of an inch in length, black in color with pale reddish legs. The potato is also freely at in the leaves. Other plants attacked bages, cucumbers, beans, squashes, pumpkins, etc The adult beetle passes the winter in dry, shelter-
ed spots under Aeatves. rubbish, etc. and makes its appearance early in spring, when it at tacks young and tender plants. The leaves of
the tomato are often thoroughly riddled by the beetles soon after they have been planted out
In our experiments we have found that this fle In our cxperiments we have found that this flea
beetle can be controlled by spraying with the or-
sary to apray at least twice a week, and if, such withe case arsenate of lead three pounds to 40 gallons of mixture. Remnants of crops, such as tomatoes, cabbage stumps. feld, and other refuse should be removed from fields and gardens in autumn, so as to reduce as much as possible suitable hibernating quarters

## CUTWORMS

roung well-known caterpillars destroy many young it is wise, therefore, to scatter a small Auantity of lpoisoned bran around accel plant when is tranisplanted. (Hall a pound of bran. The latter sheuld poison ifity pounds of with sweetened water and the Paris green added Thowly and thoroughly mixed through the bran). nero spotted cutworm (Noctua c-nigrum), which has the fruit. This cutworm is of and feeding upon or grayish color, the conspicuous character by which it may be recognized being a row of trian gular-shaped blackish markings (very conspicuous $\mathrm{I}_{n}$ ne rear segments) on either side of the back. dozen of the cutworms have found as many as a mato. When not feeding this into a single tohidden in the soil near the plant. If the truit noticed to have been eaten into, the placing of small quantity of the poisoned bran around the base of the plants, near but not touching the stems, will prevent further injury.

## BIISTMR BEMETLES,

There are three species of blister beetles which tomato These insects attack the foliage of the in July and August. The black blister beatle (Epicauta pennsylvanica) is uniformly dull black as itegray blister beetie (Macrobasis unicolor) gray blister mplies is ash-gray in color, and the gray blister beetle (Eppicauta, cinerea) is black three of these beetles are of a gimilar size, All ly, about half an inch in length. They are long legs. When these insects attack vegetaher crops probably the easiest way of getting rid of the field waving from side to side walk through spruce. This will cause the beetles to fly at and when they come to the edge of the crop they will disperse and seldom return. Spraying with arsenate of lead, 2 or 3 pounds in 40 gallons of
water, will, of course, kill many of the beetles. TOMATO STALK BORER
aterpillar in the often received of a boring toes. Upon investigation it has been found that spoken of simply as themato stalk borer-often spataphraeta). The caterpill borer-(Papaipema cal in shape and smooth is when full cylindri about an inch and a quarter in length. grown, head is yellowish brown, and the pale flesh color ed body is marked with conspicuous longitudinal stems is The presence of these caterpillars in the pearance usually detected by the unhealthy ap withered and fall down on one of which become ately, owing to the boring habits of this cater pillar, the only remedy which can be suggested is to cut of the portion of the plant bearing the caterpillar and destroy the same. Injury by these caterpillars is usually noticed in the latter stems of pote frequently infested by this insect pillars also bore in the stems of certain weeds such as thistle, burdock, etc., it is wise to keep
fields as clean as possible of such useless plants THE TOMATO WORM
Occasional reports are received of a large
een caterpillar (Phlegethinting bata) injuring tomatoes quinquemacu mature measures about four inches in length. It eeds on the leaves and also eats into the fruit In some seasons in Southwestern Ontario it is very injurious. In gardens, the simple remedy if at any time the caually stop the attack, but enough to requine calerpilars are abundan with Paris green or arsenate of lead spraying destroy the "worms."

THE TOMATO FRUIT WORM.
This caterpillar. which is usually spoken of in on account of its habit of boring into the ears of sweet corn, is also destructive some seasons to the fruit of the tomato. In feeding habits it re sembles the spotted green and ripening frui
dinary Bordeaux mixture. When the beetles are
present, in extraordinary numbers it may be neces-
etripes. Where this worm has been troublesome in fields of corn it is inadvisable to use such land passes the winter in the ground in the pupal atate. If, therefore, infested fields are plowed deeply in autumn, many of the earthen cells protecting the pupae will be broken and the latter SLUGS.
Although these disgusting creatures are, course, not insects, the entomologist is freq ly called upon for a remedy to destroy them. slugs, which come out of the ground at night for slugs, which come out of the ground at night and tures are often particularly abundant on rich land in dempieh places. . An excellent remedys is the scatter over the surface of the ground, where they occur, freshly slaked lime. This should be done in the evening, and when the slugs come out
to feed the lime adheres to their bodies, and causes to feed the lime adheres to their bodies, and causes
them great inconvenience. By emitting a slimy secretion they are often capable of throwing of the effects of the first application, but two or three applications of the slaked lime on conts will thoroughly eradicate thert

ARTHIUR GIBSON
Chief Assistant Entornolo
griculture, Ottawa
The Outlook for the Apple Growers' Industry.
At a recent meeting of the Western New York
Horticultural Society, Prof. S. A. Beach, of Ames, Iowa, reviewed the outlook of the applegrowing industry in the United States. The argument is based on United States conditions, but the underlying principles are so like those of tering into the situation are so nearly duplicated in this country that the contents of the adfruit growers. The subject is treated under ors, and what the grower can do to improve he situation.
Among the factors which appear encouraging tan: First, the actual these stand out as importin the number of apple trees growing in some of the most important apple-producing. States. This would appear to give \& better chance to find good markets for the crops from those trees
which remain. Second, the marked decline in which remain. Second, the marked decline in a whole. This also would appear to indicate as better apple market for the future. Thind; a constant increase in population from which it is aatural to expect a constant, if not a corresponding increase on the total annual consumption of apples. Fourth, the enlargement and improve tation facilities argues better marketing of the apple crop. Fifth, with the probable extension and a possible better deelopment of the facilities for delivering Amerithe export tran foreign markets in good condition, materially increase. Besides this we expected to apple dealers of this country to be eventually in closer touch with Eastern Asia, from Sibera Jouthward, and with the outlying islands from Japan to the Philiipines; also with Australia ments in the export trade will come in the near future.
mpared outlook of the Eastern apple grower, as tain and Pacific Coast districts, these factors appear in his favor; cheaper land, cheaper labor, portunities for disposing of the lower grade ruit at remunerative prices, either for grades sumption or for the manufacture of by-products in texture, flavor, quality and keeping qualitie in texture, flavor, quality and keeping qualities
as compared with fruit of the same varieties
grown in irrigated districts af the but it is generally conceded that the North Western fruit has the advantage in bright color
and often in size. Among the factors which are less favorable for the Eastern apple grower, the following ar tion with the output of the orchards of the
Pacific North West. rates on apples from the Pacific coast to the

 wav to Eastern markets in an considerable quan-
tities. This means that the Eastern growers
will feel the competition with the
thental tariff, the north Pacific growers could then offer their apples on Bastern markets at
considerably lower prices than must now be maintained in order to return them a fair profit. They would gain a further advantage in compet ing with eastern apples in foreign markets, because, after once being loaded on shipboard in the Pacinc ports, the rruit would not need to be handled again until it reached Europe
The 1910 census shows a decrease of over 15 ,
00,000 apple trees in the States of New York, ponnsylvaniae Ohio and Michigan, which amoun is more than the combined numbers of existing trees in Montana, Idaho, Oregon and Washington It should be remembered, however, that these re moved trees in the east and central States repre very few, if any, apples to the market. On the other hand the trees in the northwestern States have been mostly planted for commercial orchards. Many are on the spoculative basis and represent the investment of college professors public school teachers, clerks, clergymen, doctors these properties at an inflated prices. While these properties at an inflated prices. While apple orchards under such ownership, which can never have any marked influence on the commer cial apple crop of the country, there still remain tens of the crops of other orchards in the North continue to compete for the best at home and abroad.
grower is factor not iavorable to the Easter grower is found in the fact that the Western
growers are becoming more and more thoroughly organized. As evidence of what is being done organization in the macific Northwest that one over 3,000 cars of apples Northwest handled season, and the returns were generally satisfac tory. Another important factor is the inroad ing consum into the apple market by the increas The banana trade, in as and surb-tropical fruits, from insignificance to an industry has grown $\$ 15,000,000$ in the United States alone. Citrus fruits are consumed to the extent of $100,000 \mathrm{ca}$ loads per annum. All these fruits are competing more and more strongly with the apple, not only
in our domestic markets but also in the foreigg in our

In addition to all these disadvantages the area upon which apples might be produced is al
most unlimited, but competition will finally termine what are to be the great apple orchard How of the country
How growers may improve the situation.
prof. Beach dwelt for some time on the remedies which must be applied to the industry remedies to restore it to its proper place. Many things demand attention, some of which are orchard ages, methods of packing, storage, rell as packand transportation. However, these are not the broblems that must receive first consideration the purpose of marketing the fruit, of buying for plies, of advertising the goods, and in other ways ern grower does not rouse himself to meet th western competition, it will have the effect o where the cheaper and less profitable of trade marketed. 60,000 dollars for advertising this past season This explains in part their success and what may be done through united efforts, and suggests to of Prof. Beach, and take up in a persistently aghis markets for his brands of fruit. Also stand ardize the grade and pack for the apples of the region, and offer these standard goods in a sup-
ply large enough to develop and hold the best

## POULTRY

Prince Edward Island Egg Circles.
Erierty in Julve 1912, W. A. Brown, B. SA.
 slayed in the province for some weeks. virown
the farmers and those who were whiting
handing the

that in no part of the Dominion was there is than in this wonderful little poultry induatry Brown, on his return to Ottawa reported acon, ingly. The result was the appointment of 'T Benson as Dominion Poultry Representative the Island. Mr. Benson, who had for some time eld the posicion of assistant district representaB. S. A. whom he assisted nder J. H. Hare, cessful Ontario County egg circles layded on Island at the end of September, 1912, and with t.he co-operation of the Provincial Department of Agriculture immediately set about investigating onditions.
ing addresses in the rural section way, and deliverorganization work. In the spring of 1913 organit tion of egg circles commencea, and in all, som eighteen egg circles have been organized up to this time, some of them quite recently. These associations have been well spread over the proSo tar 081 tarmers have tracion. nembers of 1 me been registored as additional stamps and ink pads for stamping the eggs have been sent out to managers upon thet argent request. 56.478 dozens of eggs have been shipped to the sontreal markets at an average premium over ioch prifon hi at least three and ducted, and not taking into account an undre in lation of prices by those th strong opposition to the movement.
Quality and new-laidness have been the watchwords of these associations, and deteriorated
eggs have been sharply discriminated The Brooklyn egg circle discriminated against. 270 dozens to Montreal, which was described of the buyers as a shipment that any egg circle tin the Dominion might well be proud of, it was a record.
The extra profit to the producers is simply handling, as a result of the ind unnecessary which may be described as almost phenominal Mr. Benson now has on file in his office applicstions from 56 different sections of the Island for organization, many of which take the form of demands and these in addition to applicaztons or lecturers.
the farmers to Mr. Benson the credit lies with destribes as far seeing, intelligent and ready to take hold of a fair business proposition.

## Incubators and Incubation.

The season is fast approaching when many of
our readers will be bringing their incubetors into use again. will be bringing their incubators into simple as it would seem. There ingly small matters in connection with an incubator which, if not properly attended to result in a lower percentage hatch and much lower viusually in the chicks. The hatch is made or loet cording during the first week of incubation, ac Agricultural Oil. R. Grabam, of the Ontario vised his bulletin on "Fh, who has recently re should be in the home of every poultrymen.
He advises that the temperatures should be kept well up to 103 degrees with the thermomeature should be as even as possible. At Guelph, before the eggs are put into the machine the insolution made from washed with a ten per cent. such as Creoline or Zenoleum. Coal-tar products hot. With the machines the best results have kind wained when water or moisture of 'some is placed beneath the egg tray nearly then pailil size of the machine and the bottom of this pan io always kept covered with water or wet s.ind not more than one inch deep.
In selecting eggs for hatching, always avoid small or very large ehg have been washed, and thing abnormal about an unusually small egg or one over-large. It must be remembered that the
shell of eggs is porous, and very often when tnuch which may to such, it contains diseased germs proximity gain access to other eggs in close Prof. Graham emphasizes is that when turning he eggs the attendant should always be particular to do so with clean hands, particular caro be sene or other greasy material is present on the "'The room in which the machine is operated should be clean and well ventilated. If possible,
select a room that varies but little in temperature. Where there is a strong odor of lamip where molds grow upon bits of boards or upon the walls, an incubator will not usually do good
work. The lamp burns brighter the egces hatch work. The lamp burns brighter, the eggs hatch
better and chicks have more vitality when the air


FEBRUARY 12, 1914
At Guelph, the best results have peen obtain
ed, largest average hatches and strong $\div$ st chioks ed, largest average hatches and strong $\because s t$ chiviks, chines at 10 at the side of the egg or at the bottom. This heat is maintained throughout the hatch. They
are particular to set clean eggs, usually not over are particular to set clean eggs, usually not over
two days old, which have been held at a temper ature between 55 and 75 degrees. The eggs are E) best put in the machine in the morning, then the ing the day and by night we know that the ma-
chine is not too hot or cold. Moisture is used rom the start; this is more important during the first week of the hatch than at any other period No ventilation is given until after the ninth day

## FARM BULLETIN.

## Use Business Methods

## Last week I spent several days in Toronto,

 Where I met some scores of business men. Wurand conclusive advice about farming than I have been able to get from the Department of Agriculyears. It seemed as if every promoter, financier, merchant. manufacturer and editor I met had been sitting up nights to solve the problem of more enterprising and up-to-date. But alas, even the best of their homilies left me meek but unconvinced. I do not claim to be much of a farmer, but I have done enough to know a few And chief among the and a few that I can not. get the results from a piece of good fertile land il and piece of paper ctill from a lead penin and piece of paper. Still, they are so logical plexed. But one phrase was dinned into my perso steadily that it finally brought enlightenmentbut not of the kind it wes meant to convey."Farmers must learn to use business m thods.'
Quite right. But the business methods they must use are the kind that are put into practice, books and applauded in the biographies of great and successful business men. There is one set of principles that business men use like their sunday suits, to go to church with, and another that they use like their ordinary tweed suits, to go to
the ollice with. The tweed-suit principles are the ones that enable them to make theirciples are the the others are the kind that are pointed to with pride in editorials and sermons. Without touching on the orinciples that justify them in employing lobbyists and doing the kind of things mittees and in the courts, there is one clean and sensible principle that i think farmers could adopt profitably and with clear conscience refer to the principle of getting Direct rather islation as affects business business and such leg

The average business man-or rather, every
successful business man-works for Direct benefits to the shareholders he represents. If he is ar merchant, manufacturer. financier or what not, he Direct profits that come to him eye single to the and if he gets them in sufficient quantities he will sit back in a leather-cushioned chair at his club, plain to the country visitor how enormous ar mers, laboringenefits of his business to the farHe can work himself into the community at large. isfaction over the thousands beautiful glow of sat dollars that go indirectly to other people from does not try to And he is so larce-hearted that he wonderful benefits are enough for Indirect direction. The people who are supposed to get their families on trif to expensive clubs or send Who get the Direct benefits are able to do that
This explains why reachiner for the Direct benefits and willing to always
to concill as I can firure it out, the Det them. As nearly
onlv onect benefits are the Nersonall needs to take' into consideration. outstandiny success in the business world.
The preat trouble with the farmers is that
direy are expected to prosper and fatten on
direct henefits. A business man promotes a

## I'HE FARMER'S ADVOCATE

employ or building up a large business that will employ many men. In order to make it prosper hat can be made to look very trifling, thouge Indirectly benefit his business succeeds he will will employ much labor, which will consume vast quantities of country products and the whole country will overfiow with Indirect benefits. It very logical and also philanthropic, but the who who fixes the scheme so that he is the one rect benefits is the only special privilege and Diin a private car only one who takes to riding neys. I defy any man to point nightingale's kidwhose fortune was accumulated from Indirect benefits.
glimpse into business I learned from this little glimpse into business was that "farmers must that the Direct meneds." They must see to it them rather than someone else. If they find themselves cramped for lack of transportand facilities. lack of markets free from combines that put down prices, or any of the schemes that give once. farm production see to it that every kind of them. Then thev can hire some pirect benefits to ers and speakers to show the manufacturers and financiers and city business men that farmin conducted in this way will yield millions of dol Iars of profit to Indirect benefits to Sir Philabe the silk-stocking Direct benefits are all that aress is business and in business. Let the farmers worth considering ply this great business principle and see to apthat they get legislation that will enable them to make it effective and they will prosper so that to to the land. The best possible proof that this is that no prosperous business a complete farce consideration where his ed. Farmers and laboring men should lencern treat it with the same contempt and look out for the Direct benefits that legitimately belong to

Good Prices at the Shorthorn Sale It was a large and enthusiastic crowd that gathered at the Union the annual consignment sale of Shorthorn cattle Breeders were present from all the Provinces of the Dominion and many came from the United and the Ruding for the most part was brisk cago: Col. Fred Reppert and Con Jos, Chi son, of London, disposed of upwards of sixty
Prof. top price of the sale was $\$ 875$, paid by lege, Guelph, for of the Ontario Agricultural Colwast about a year old. The second highest pric which National Exhibition champion at the Canadian
Much of the stock was young and on the whole the sale was considered to be a success. The outstanding feature was the demand for young right kind of seems to be a great scarcity of the Sixty-five head sold made the grand total of $\$ 16,900$, an average of $\$ 260$ each.
Gloster Lavender, J. Wilkin, Balsam Mollie Stamford, J. Wilkin, Balsam Flora C. 14th, Emslie Bros, Milton Sittyton Queen, Lespedeza Farm, Hicko
Nonpareil Flower 3rd, G. H. Linton, Pick
ering ...... ...... ...... ...... H.... Linton, Pi......
Nonpareil King 2nd, Jas. A. Wallace
Harrowsmith
Belmar Mina, Dr. G. G. Membrey
Butterfly's Jueen 3rd, J. Wilkin, Balsam Sweet Violet, A. Barber, Guelph ....
Vanda 4th, Wm. Robinson, Everton Missie Marquis, R. A. Miller, Lucas, Io Miss Ramsden, John Milton, Brantford. Miss Mayflower 4th, Wm. R. Membrey,
Aongfellow, E. W. Monier, Elizabeth
Mina Prince W, A. Wallace, Kars...........
Excelsior, W. E. Ostricker, Berlin
Silverlocks, S. Harron, Milton
e, Paisley .
Princess Royal 15th, Anoka Farm, Waki-
Flower Girl 15th, J. Wilkin, Balsalm ....... Enclish Queen
den, Oakville
Augusta Queen 8th, Hearts Delight Farm

Lavender Peer, Goodfellow Bros., Bolton Meary Mildred, A. Barber, Guelph

### 300.00 500.00

 Crimson Maud 16 th , Chas. Bowditch, Illsdale, Mich.Lady Lovelace 5th (cow and bull call...................... $\$ 555.00$ Wilkin, Balsam ...... ...... ...... Lady Fanny A., W. D. Butler, Ingersolil. ... Membrey, Adolphustown Miss Ramsden 10th, T. C. Brown, Great
Falls, Mont Scotch Bloom 2nd, Emsley Bros., Ouk ville
Fairy
Fairy Queen, Thos. Singsworth, Harding-
Sultan of Hillside, G. H. Rutherford, Bol
Master Lavender, Robt. Duff, Myrtle
. 150.00
Belmar Lass 2nd, E. de Gex, Kerwood Superb Ramsden, W. W. Butler, Ingersoil. 175.00 Baron Lovelace 7th. W. A. Fairman, Gan
Lauretta, E. de. A. Mex, Kerworeod Elders Mills. Hildred Ramsden, McLean \& Sod

Sons, Ker Lovely 51st, W. W. Ostricker, Beriin ...... Gloster's Sunbeam, Geo. Fletcher, Bink Salem Gem, Carpenter \& Ross, Mansfield, Lavender Gloster, Marshall Abercrombie. Meaford
 Royal Favorite, Wm. Wilken, Balsam worth Prince, J. Stevenson, KenilThe Archer, Isaac Salkeld, Goderich ..... Proud Diamond, Prof. Day, O.A.C., Guelph Crimson Maud 17th, Lespedeza Farm ... .. The Imperator, E. H. Wise, Clinton........ Royal Prince, F. Richardson, Columbus..
Glenhall, I. L. Norris, Galena, ${ }^{\text {II }}$,........ Led Jealousy, John Milton. Brantford.... Meafordie 4th, Marshall Abercrombie Rosebud 18th, J. F. Osborne, Bowmant
ville.
 Lady's Best, Geo. Riby, Paisley................. Lady Rosewood, John Milton, Brantiord. Golden Goods, W. T. Hopper, Paisley. Golden Drop, Jas. Yule, Winnipeg.,. Village Lavender, L. Sargent, Fergus.....

## Hassard's Horse Sale.

## During the week of the Jive Stock Association

 meetings in Toronto an important event fto horse erons, the property of T. H. Hassard, of Markham, Ont., the sale being held at the Repository Toronto, ion Wednesday, Feb. 4th. A large num ser of horsemen from near and far attended this sale, which was, without a doubt, fone of the That successful horse sales held in recent years. Silversprings and Lily of Muirton, went to the bid of Robt. Graham, of Claremont, Ont to th $\$ 2,500$. This is a grand pair of big mares with all kinds of quality and they will be heard from again in the show ring. Nell of Aikton, the ber, fell to the bid of the Dominion Transport. Co., Toronto, at $\$ 1,150$. Some Dominion Percheron mares also made good prices of the them selling for $\$ 800$ each and another for $\$ 500$ Of the Percheron stallions offered Kazak topped the lot at $\$ 1,275$.The following is a list of the animals sold and their purchasers:
Mary of Silversprings and Lily of Mrir-
ton, Robt. Graham, Claremont ton, Robt. Graham, Claremont ...... ...... $\$ 2,500$
195.00
170.00 150.00 Toronto '...... ...... ...... .... Transport Co., Baurch Lady, Dominion Transport Co. Toronto ........... Blair, St Co............. Poplar's Blossom, W. P. Blair, St. Cathictoria's Pride, S . Herdman, Newton brook ..... NewtonKocarde, Wim. Pears, Toronto Junction Laheuviniere, McIntyre \& Goble, Listowel. Juvenile, G. ID. Morden, Oakville Kolonne, H. Colbert, Port Perry Majolique, Dominion Transport Massive, McIntyre \& Goble
Jazak, W. H. Comstock, Belleville Itupin, Wm. Pears Gay Gordontvre \& Goble. Gay Gordon, G. A. Bell, Nelson -.......... $\mathbf{3 5 0}$ Proud Victor, C. V. Robbins, River Mend, Harviestoun Fanatic, A. MBoir, Hamiliton. Twenty-one head sold averaged \$675.
Twenty-one head sold averaged \$675.

## Large Numbers Attend the Live-stock Meetings.

## Dominion Shorthorn Breeders.

 One of the most business-like and successful in the whole serice of getherings in Toronto last ary 3, when the Dominion Shorthorn Breeders asary , whed to conduct their annual affiairs and planstor the future. A spirit of conidence and prostor the future. A spirit of conidence and pros-
perity permeated the entire proceedings, which perity permeated the entire proceedings, which
manifested the faith of the breeders in an indusmanifested the faith of thilt upon the sure foundationtry and a breed buits wants. It might bo so
the nociation had its innings in 1918.
President Harry Smith reviewed the prosperity of the association daring the season closed and
made fitting allusion to the mantle of regrot made fitting allusion to the mantle of regret
which overhung the members through the loss of Which overhung the members through the In In reference to the newly established secord of Yerformance in the association, very marked approbation has been bestowed upon it by the mem-
bers. A large number of entries have been re bers. A large number of entries have been re-
celved and the records of the teets have been cereditable indeed. The underlyying current of progrese is apparently, in the dirrection of combining
milk production with beef conformation in-so-far milk production with beef conformation in-so-far
as it does not detract from the excellence of the as it does not detract from the excellente ore the latter qualitt. In order to demonstrat. forred to the Scotch-bred cow, Beatrice 22nd, with a milk record of 57 pounds per day and yet the the dam of Bandmaster, first-prizo ious ateer the Royal, and Golden
at the Smithfield show

At the last annual meeting a committee composed of W. A. Dryden, John Gardhouse and ittandard for animals registered in the Shorthorn Record of Performance. The following qualifications
tion:

Bulls admitted after having four daughters in the R. dam.

Cows admitted fulfilling the following require ments of production and breeding as supervised by the Live Stock Branch of the Department of
Agriculture. All cows admitted must equal or Agriculture. Ane records specified below:

## Cläss. <br> Thro-year-old <br> Three-year-old <br> Four-year-old

$\begin{array}{cc}\text { Lbs. Milk. } \\ 4,000 & \text { Butter Fat. } \\ 140 .\end{array}$

Tests to be made by the Babcock test.
the day the animal is two years old or previous the dhat day she must produce within 365 cunsecutive days from that date 4,000 pounds of milk. For each day the animal is over two years old at the beginning of her year's test the amount of will be determined by adding 1.37 pounds for each such day to the 4,000 pounds required in
the two-year-old class. This ratio is applicable the two-year-old class. This ratio is applicable until the animal is five years old, when the re-
quired amount will have reached 5,500 pounds, quired amount will have reached 5,500 pounds, quired of all cows five years old and over.
*Ge Year's Butter Fat Record.-If the test be commenced the day the animal is two years old or
previous to that day she must produce within \$85s consecutive days from that date 140 pounds
of butter fat. For each day the animal is over of butter fat. For each day the animal is over
two years old at the beginning of the year's test the amount of butter fat she will be required to produce will be determined by adding . 048 of a
pound for each such day to the 140 pounds repound for each such day to the 140 pounds re-
quired when in the two-year-old class. This quired when in the two-year-old class.
ratio is applicable until the animal is five years old, When the required amount wil have reached
192.5 pounds, which will be the minimum am-
ount of hutter fat rewuired of all cows five years old and ove.
Fvery cow accepted for registration of ner-
, formance must drop a call within 15 months after the conmencement of the test. In the four-
year-old class and mature cows, no cows will be acceoted for registration of performance if the
berinning of her previous lactation period was more than fifteen months before the commence-
All applications for the test must be addressed to the secretary o
Breeders' Association.
posed of all the livestock associations west of the Great Lakes, sent in a strong plea for
more representation on the Board of Directors. In presenting their claims, Drs. Rutherford
Bell and Tolmie, with Androw Bell and Tolmie, with Andrew Craham. empha
sized the

Inporters are under some restraint as to the
registration of animals in Canada that may be duly registered in the Old Country. There is a feeling throughout America that the time has a $r^{r}$ rived when some change istwarranted stin the concattle must be in the future. A committee will confer with a similar body from the United States in order to agree on some concerted action
matter, but it may not be expected that any radimatter, but it may not
cal steps will be taken.

The annual report was received with satisfoction on the part of the members as it showed an tion on the part of the members as is showed an
increase of 2,365 registrations and 884 transfers over that of the previous year. In 1913 there.
were 9,046 registrations, 3,647 iransfers and $\$ 3$, 376 received in memberships. After the amount of the liabilities is deducted from the cash on hand there is a balance of
treasury of the

Fairs and exhibitions will receive a liberal grant during 1914 and it will be distributed in the following manner: Canadian National (Toron-
to), $\$ 1,000$; Western Fair (London), $\$ 250$; Cen
 Live Stock, Horticultural and Dairy Show (To-
ronto) $\$ 150$; Winter Fair (Guelph) Fair (Ottawa), \$175; Winnipeg Exhibition, $\$ 200$ Brandon Exhibition, $\$ 200$; Brandon Winter Fair \$100; Regina Exhibition, $\$ 200$; Saskatoon Exh bition, $\$ 200$; Regina Winter Fair, $\$ 100$; Culgary
Exhibition, $\$ 200$; Calcary Winter Fair. 8100 , Eximonton Exhibition, $\$ 200$; Victoria Exhibition (Dominion) $\$ 500$. Sherbroake Exhibition, $\$ 200$ St. John Exhibition, $\$ 50$; Halifax Exhibition, \$100; Charlottetown Exhibition, \$50; Amherst Winter Fair, $\$ 50$
presidicent, John Gardhouse, Weston, Hecoy; vicepresident, John Gardhouse, Weston; second vice-
president, W. A. Dryden, Brooklin; secretarypresident, W. A. Dryden, Brooklin; secretary-
treasurer pro tem, Harry Pettit, Freeman, Ont.; directors, John Gardhouse, Highifield, Ont.: Dr. Sutherland, Saskatoon; J. A. Watt, Salem; P. M.
Bredt, Regina; C. A. Archibald, Truro, N. S.; Wm. Smith, Columbus; J. G. Barron, Carberry; hurst; R. Amos, Mofat; R. W. Caswell, Saskatoon; H. M. Pettit, Freman; S. Dyment, Barrie;
W. D. Cargill, Cargill; W. R. Elliott, Guclph W. D. Cargill, Cargill; W.R. Eliiott, Guelph;
delegates to Dominion Cattle Breeders tion, Harry Smith and J. A. Watt, Salem.
Representatives to exhibition boards: Canadian Nation, Stounfiville. Wes, Tostern Fair, L. Watt, Robert Gibson, Denfield; Capt. T. E. Robson, London. Central Canada Fair, Ottawa-W.A. Wallace,
Kars, Ont.; R. E. White, Perth. Provincial Ex-
 liam, $\mathrm{N} . \mathrm{S}$ Provincial Exhibition, New Bruns-
wick-Haroid
Etter, Westmoreland Point,
N. B;
 North, River, P. E. I.; John Richards, Bideford,
P. E. I. Winnipeg Industrial Exhibition-James
 Turner, Calgary. Alta. Brandon Exhibition-
George Allison, Burntank, Man.; Andrew Gratam Pomeroy, Man. Regina, Sask., Axhibition-Joe Barnet, Moose Jaw; Robt. Douglas, Tantallon,
Sask. Sherbrooke, Que., Exhibition-E. V. NorSask, Sherbrooke, Que., Exhibition-E. V. Nor-
ton, Coaticook, Que., F. R. Cromwell, Cookshire,
Que. Winter Fair, Guelph-J. M. Gardhouso Weston, Ont. W.. R. Flliott, Guelph, Gardho
monton Exhibition-James Sharpe, La Combe:
mon R. Gillis, Clover Bar. Saskatoon Exhibitiontoon, Sask. Ottawa Winter Fair-W. A. Wallace, Kars, Ont.; Jas. Smith, Rockland, Ont. Wallace, Regina,
Brandon and Calgary Winter Fairs-Same deleBratdon and Calcary Winter Fairs-Same dele-
gates as appointed to summer fairs. Amherst
Winter Fair Winter Fair-E. Crowe, Summer Brairs. And Rherst
bert Boswell, Pownell, P. E. I. National Live
Stock Stock, Horticultural and Dairy Show, Toronto-
John Gardhouse. Highfield, and John Mitchell, Burlington.


## Allison, Morrisburg; President, A. E. Yeager Simcoe:

 Simcoe ; Vice-President, Harry Boag, Barrio:Directors, Robt Graham. Claremont; J. Quempson, Guelph; S. W. McLean, Pointe Clare Que.: L. Mossip, St. Marys; Thos. Cussion and R. P. Grann, Lancaster, Pa., U.\$. A,

Canadian Jersey Cattle Club. At the annual meeting of the Canadian Jerny Cattle Club, held at the Prince George Hotel, Toronto, on Wetnesday, February 4th, a resolv tion was passed asking that a committee be ap pointed to act in conjunction with the committee of Agricutier soclelles to interview the Minister of Agriculture, asking for legislation prohibting the running at large of scrub buls, or the rumning at large or a pure bred bill of any breed, andes caso ter bro fully deted wil frey hel. fully detained until all damages are settled, anc bulls unlawfully running at large, the owner me recover damages. Another resolution was pasee asking for a committee to act in conjunction with the committee from the other associations, O . P . test the period of lactation for the the changed from 865 to 300 days, and that the period in which she must freshen from the com mencement of the test be 400 days. Reciproca
registration registration between this and the America The club is now an almost established fact showed an increased prosperity of the club ove any former year. Registrations, 1,155 ; transfern,
675 , total receipts. 675 ; total receipts. $\$ 1.662,95$; expenditure,
8780.62 Grants to armounting to $\$ 400.00$ were voted. Some chanme in membership and registration fees were mado as follows: Annual membership, $\$ 2.00$; registration to members for animals under two years of age, $\$ 1.00$; to non-members. $\$ 2.00$; for animale
over bers, $\$ 4.00$. It was also declared that the Canadian Jersey Club wishes to go on record as deploring the fact that en salaries paid to the officers of the I.ive Stock Branch of the Experimental Farm, at Ottawa. are not of sumficient im. portance to keep the better class of man mind
those positions. A resolution expressing apprection ation of the management of the National Livo Stock and Dairy Show in their efforts looking to the comfort of the exhibitors, and their exhibits
was passed. The election of oflcers revild was passed. The election of officers resulted as
follows: President, S. J. Lyons, Norval : Vice President, D. O. Bull, Toronto ; First Vice-Preeldent, F. L. Gren, Greenwood: Directors, w. N. R. J. Fleming, Toronto, and H. A. Dolena Alloa. Much feeling was expressed by several of
the members in sympathy for the retiring a motion expressing
President. David

Clydesdale Men in Annual Session. A slight falling off in the cash balance on hand
at the end of 1913, as compared with that of the at the end of 1913, as compared with that of the
preceding year, due to the largely increased grants to yairs, wae the the largely increased of the financial report as read by secretary Wheaton at the annual meeting of the Clydesdale.
Horse Association of Canada, held Horse Association of Canada, held at the Grand
Union Hotel. Toronto, on Thursday, February. 5th. 1914. The cash balance on hand at the end of the year was $\$ 16.824 .39$ an excess o
assets over liabilities
$\$ 190$ assets over liar wailies $\$ 19.61 .30,{ }^{2}$. The Diroc
tors' Cors' report, which was of considerable length,
dealt with the continued supremacy of the Clydesdale as the ideal draft horse, and the superior quality of the horses exhibited at the various ex.
hibitions, particular stress being laid on the splendid success attarined by horses of Canadia
breeding at the International Show hald
Chich breeding at the International Show, held fin
Chicaro last Novernber. An amendment to the
constitution constitution was ordered, An amendment to thich provided that
article 16 be amended lowing : Vice-Presidents of the provinces shall have all the powers of Directors, and they with
the other officers, provided for in said article 16 , the other officers, provided for in said article 16 ,
shall constitute the poverning body of the As sociation. On motion a cominittee was apponting of the form of pedigree to board re the chang-
 elected for 1914 are: President, John A. Boag,
Oucensville ; Vice-President. W. Graham. Clare-

FEBRUARY 12, 1914
ma

## Dominion Swime Breeders

 The annual meeting of the Dominion Swine Breeders Association, held at the Grand Union Hotel, Toronto, on Tuesday, February Brd, wa argely attonded by breeders representing many of the provinces of the Dominion. The Directors most successful financially in the history of the Association, the membership having increased 177 during the ygar, and registrations 4,313 over the number of transfers, 1,228, while receipts reached the satisfactory sum of $\$ 8,498.12$, and expense in connection with the swine records, \$3,624.95 The result of the election of offcers was President, Brien, Ridgetown: General Director, Dr. breeds: Berkshires, P. McE shires, Wm. Jones, Zenda : Tamworths, W. D. Wright, Glanworth: Hampshires, A. Hastings, Crosshill: Poland Chinas, G. G. Gould. Edgars Mills; Duroc Jerseys, Mac Campbell, Northwood spoke in glowing terms of the general prosperit of the swine breeding industry, and the splendid financial condition of the Association. He prophesied a most prosperous future for the industry.

Representatives to the various fair boards were chosen as fons: To the Canadian Na don, P. J. McEwen, and J. D. Brien ; Canada butt ; National Live Stock and Dairy Show, J Show, Major Hood. Prof. G. E. Day, and John Flatt, and J. D. Brien : Ottawa Winter Show,
J. ©. Smith. J. C. Stuart. and R. O. Morrow.
Following is a list of the grants to the variDus Ontario shows: National Live Stock and
Dairy Show. $\$ 100.00$; Canadian National $\$ 100$ Provincial Winter Show. Guelph, \$50.00; East ern, Ontario Winter Show. Ottawa, \$50.00; Canada Central, \$50.00 : Western, London, \$50.00. Western Canada Breeders setting claims for representation on the directorate. Several members speaking to the question were trongly of opinion that their claim was a just hould be given. this Association was ordered to be drafted and ent to the families of the late members, Thos. ealle , Joseph Featherston, Streets from the Association George Putnam;also a resolution tion of the efforts of the management of the tional Live Stock, Horticultural and Dairy orts of both the exhibitors and their exhibits, and promising their hearty co-operation and sym-
pathy to the success of future shows.
The Back Lots Were Not Planted.
neeting of the remember that at the annua one year ago it was resolved to plough a num utilize the same in Toronto that people might potatoes and other plant with garden vegetables meeting of this Association, which was held rues day, Februery 3rd, in the Foresters' Hall, Toronto, it came to light that while the plowmen
ploughed the lots nothing was planted It is plain developed into weedy or barren wastes, and gardeners out of city people, but we suppose they would have eaten the potatoes had the The the crop. manifesteting this year, and much interest was prtant steps washout the day. One of the imMinister of Agriculture Hontin Burrell, Dominion Federal grant for agriculture, to ask that part of the Ario be given to the Plowmen's Association. The and asked that the Dominion Railway Commisnection with a number of independent companies,
which arn cophone Co . The work of the year had progressed favormatches ever held in this provincessful characterizing The following of the Association's doings.
Thicers were elected for the coming year: Honorary Presidente, Joseph Kilgour ; dent, James McLean, Richmond Hill; First Vice-
President, A. P. Pollard, Orono: Second ViceJ. Lockie Wilson : Treasurer, T. A. Pater Paterson,
Eilesmere.

THE FARMER'S ADVOCATE.

Yorkshire Swine Club.
The Ontario Yorkshire Club, at the annual
meeting at the Grand Union February 3rd, presented a motel, Toronto, on port, the finances being in a healthy state, the
registrations for the past year totalling 4,414, an increase of 1,702 over that of 1912, and still
increasing. sening address was enthusiastic in hises, in his ations to the members on the unprecedented success of the Club during the year just closed, and Westervelt, in his report on the finarial A. P. tion of the Club showed a cash balance condiat the end of the year, $\$ 192.83$, and due the Ciub from the Dominion Swine Breeders' Associa$\$ 698.83$. A resolution was unamiously ance af expressive of appreciation of the efforts adopted management of the National Live Stock, Horticultural and Dairy Show in their endeavor to cater to the wants and comfort of the ex-
hibitors, and their charges at the late show in November last, and their hearty wishes for the quture success of the show.
were authorized grants to the various shows Were authorized: Canadian National, $\$ 100.00$ Gutional Live Stock and Dairy Show, $\$ 100.00$;
Guelph Winter Show, $\$ 100.00$. Show, $\$ 75.00$; Canada Central, Ottawa, $\$ 50.00$ Western, London, $\$ 50.00$; Dominion Exhibition, \$30.00.
The
The Directors elected for the ensuing year were: J. C. Stuart, Dalmeny ; Major Hood, Burford; ; H. McDiarmid, Fingal; K. Featherston, Streetsville, and Wm. Jones, Zenda. A repre-
rentative was asked for the National Live Stock sentative was asked for the National Live Stepre-k
and Dairy Show, K. Featherston received the ap-
pointment.

## Thoroughbred Men Meet.

At the annual meeting of the Thoroughbred
Horse Society, held at the Prince George Hotel Horse Society, held at the Prince George Hotel,
Toronto. on Monday, February 2nd, the Secre Toronto. on Monday, February 2nd, the Secremost flourishing condition. The total be in a tions for the year numbered 3,159, a substantial increase over the previous year, the largest provincial increase coming from Alberta. The total cash balance on hand at the year of $\$ 1,323.44$, and the total expenditure for the same period including a cash balance on
hand of $\$ 1,997.42$, was $\$ 2,442.78$. The matter hand of $\$ 1,997.42$, was $\$ 2.442 .78$. The matter
of grants to the various exhibitions tion left in the hands of the executive The election of offcers the executive.
resuited as follows: President, Col. Wm. Hendrie Hamilton; First Vice-President, K. R. Marshall, Todmorden ; Second Vice-President, A. E. Ogilvie, R. M. Directors, J. Warbour, Toronto toria, B. W. D. $=$ W. R. R. McCrackin. B. Corlin, VicCampbell, Montreal ; J. C. C. Bremner, Bremner, Alperta ; Secretary-Treasurer, J. J. Dixon, Tor-
onto ; Assistant Secretary, R. M. Dale ; Repre sentative to the Canadian National Exhibition, Col. Wm. Hendrie, Hamiton : To the National Live Stock Association, Col. D. McCrae, Guelph,
and Dr J. G. Rutherford: To the Record Board,

## Ontario Horsemen Out Strong.

Horsere was a large attendance at the Ontario
Hreeders annual meeting, held at the Grand Union Hotel, Toronto, on Wednesday,
February 4th. Some plain talk was indulged in during the discussion on the Stallion Enrolment Act. It was pointed out that the Act was not
framed for the protection of stallion owners, hut for the protection of breeders by compelling owners of grade stallions to represent them in
their true light. The unanimous opinion of the meeting was that inspection should be compulsory, and a motion was passed to that effect.
as was also another amendment to the Act be made prohibiting grade The financial statement shice and collecting fees. hand over expenditure of $\$ 392.22$. Officers elected were: Clydesdales, W. F. Batty, Brooklin; A. Boag, Queensville; A. Sarf, Cumming's Claremont. J. Torrence. Markham. Jm. Heaham, son, Belton ; Dr. Hassard, Markham; P. Christie,
 Graham, Claremont, and Walter Mine, Green
River. Shires, John Gardhouse Miof M. Gardhouse, Weston. Percherons, E. C. H. Hackneys, Beaverton, and M. Hamition, Simooe
Boan, Morrisburg, and Harry Boag, Barrie. Standard-breds, O. B. Shepherd,
and Geo. Pepper, Toronto. Thoroughbreds, Col, Wm. Hendrie. Hamilton, and Col. D. McCrae,
Guelph. $\quad$ Ponies, Harry Robinson, Torontor and T. A. Cox, Brantford. Representatives appoint-

Wames Henderson, and Geo. Charlton; Provincial Boag, Peter Christie, and Geo. Pepper John A. Eastern Scart Scarf, Geo. Allison, and W. C. Smith; National onto, Wm. Smith, M. P. The Dairy Show, Toronto, Wm. Smith, M. P. The matter of grants
to the various exhibitions was left in the hands

## Dominion Cattle Breeders First.

The initial step was taken by the Dominion teresting live-stock week. In the Grand Union in?tel, on woncir afternoon, representatives of the different breeds nd althoughiscuss the outlook of the industry, week, the delegation was not large the a busy breeds had their chawupions present.
ong bansportation of live stock to the West has men. Last yaar severul resolution in this body of ed to present to the uutnorities in order ado bet er the conditions, anu Col. D. McCrae, and Col .. McEwen, were coumissioned to represent the factory understanding. At bring about a satio ing Col. MeCrae reported that the matter had re cenved consideration, and that stockmen could soon expect a culmination of their efforts which sire of $\frac{1}{}$ highly satisfactory. It is now the de lege of sending as many to be allowed the privi at least two, in company with a car of pure-bred stock billed West for exhibition purposes. This a commendable request which will no doubt be
granted by the railway authorities who are ooking to the future of the country's transp ion business.
British Col
in the person of Dr. Tolmie, of the Dative presen Stock Branch for that province. Dr. Tolmie in vited Eastern breeders to exhibit at the Victoris be expected to make satisfactory, where they ifgit be expected to make satisfactory sales as well as
advertise their herds. The Pacific Province nually imports from ninety to one hundred thous and hve sheep, and in aadition to this importe. drozensed mutton from Australia. Live hogs and year over 5,000 head of cattle werted, and last from Alberta. The dairy industry is paramount at the present time, but numerous requests are sent out for the dual-purpose type of Shorthorn.
John Gardhouse, Highield, was re-tected President of the Aso, Highfield, was reelected President of the Association. and W. W. Ballan-
tyne of Stratford, as Vice-President, A. Westervelt, Toronto, still holds the office A. $\mathbf{P}$. retary. The general Directors for the coming
year are John Gardhouse, and Prof. G. E. Day year are. John Gardhouse, and Prof. G. E. Day.
O. A., Guelph, while the representatives to the Canious fairs and exhibitions are as follows: Fair, London, wohn Thos. O'Brien, London ; Central Canada ExhibiWallace Kars L. O. Cliford. Oshawa, and W. A. house, R. S. Stevenson, Ancaster. W. W. Gellan tyne, and W. A. Dryden, Hrooklin : Eastern On Pemhroke, W. F. Stephent Hy Show, Peter White, J. H. Grisdale, Stephen, Huntingdon, Gue., and Horticultural and Dairy Show, Peter White,

Holstein Breeders Alter Constitution.
One of the largest meetings of any live-stock association ever held in Canada was that of the
Holstein breeders, gathered at the Temple Holstein breeders, gathered at the Temple Build-
ing, Toronto, on Thursday, Feb. 5 . Never was there greater interest shown in the matters brought up for discussion than at this moeting main the recommendations of the committee car${ }_{\text {ried. }}^{\text {Pr }}$
address pointed out that of Norwich, Ont., in his address pointed out that owing to the fact that advisable to close the books of the Association the end of the calendar year, thus the month of January, which is a heavy one as far as mem-
bership fees are concerned, is not included in this year's report, which only, is not included in this However, despite this fact and eleven months. expenses the Association has added ver $\$ 1000$ to its assets during the eleven months. The Exstyle of printing the herd books, using a cowsylye of printing the herd books, using a con-
densed form and printing two columns to a page Record of Merit and Record of Performance will be printed in the year book in greatly condensed
Several comments were made which were wholly unfavorable to the National Live Stock Rec-
ords office at Ottawa and the Holstein breeders still stand aloof.
lengthy. annual report of the Secretary was very
crense of 140 over the previous year, and 194 ringing the total the Record of Periormance, fied for admission by siring four or mone tested daughters, all from different dams.
The secretary made a speciat note of the fact chat the dairy tests at the various exhibitions throughout the past year were all won by Holstein cows. The outlook for the breed is bright. In 1913, 6,814 animals were registered, 7,043 transfers were made and 21 farm names were recorded. This is a rich Association, The balance on hand Dec. 31, 1913, was \$3,110.79 and the total assets of the Association, at the presont time, not taking account of the registration have fallen due since Dee. $\mathbf{3 1}$, is $\$ 16,804.08$, with no liabilities. If all the assets were taken into consideration prominent men in the Association believe that they have $\$ 20,000$ at the present time.
Grants to exhibitions were made as follows: Toronto, \$250; London, \$150; Ottawa, \$150; don, Regina, Calgary, Edmonton, Vancouver Now Weotiminster and Saskatoon, \$125 each: Lethbridge, Red Deer, \$50 each; Victoria, \$150; St. John, Chatham (N. B.), Halifax, Charlottetown, $\$ 75$ each. The National Live Stock and Dairy Show is to get the same grant as the added provided the championships are with $\$ 150$ Holsteins. The same regulations are to apply to Ottawe and Amherst Winter exhibitions. The Association also passed a resolution that any small autumn show putting on a dairy test hould get a grant of $\$ 25$.
The constitution of
mended in so far as it the Association was amended in so far as it governed supervision, bulls, duration of test, production required, feeding and care of cows, etc., in connection with Record of Merit tests. The Secretary is given coport the completion of Merit. The owner nuust days after the record is completed. Six thirty must elapse after a cow freshens before days may be begun. Bulls ave eligible for record having four or more R.O.M. daughters. No test can thall be 8 pounds and the production required pounds, 12 pounds, 13 pounds and 14 pounds ranging in seven days from the junior two-yeardrugged or blanketed during a test. Provision is made for retesting cows which have made high records. Anything over 15 pounds of butter fat or two-year-olds, 18 pounds for three-year-olds, 21 pounds for four-year-olds, and 24 pounds for ject to re-test. Another a
meeting to lower the fees for import cortificate rom $\$ 25$ for males and $\$ 10$ for females to $\$ 10$ for males and $\$ 5$ for femules, but to make rery
stringent rules regarding the production of sires and dams of these animals for import. This and dams of these anima

Atees be appointed also passed asking that comof the several Provinces to obtain more stringent legislation regarding bulls running at large. Strict regulations were also passed to prevent
borrowing of cattle for showing purposes. Hereborrowing of cattle for showing purposes. Here-
after a man who purchases show animals cannot sell them back to the original owner within twelve months after the date of showing. Within Officers for 1914: President, R. F. Hicks, Newtonbrook; First Vice-Fresident, D. C. Flatt, Ham-
ilton; Second Vice-President, M. I. Halev, Springford; Third Vice-President, John Richardson Red Deer, Alta.: Directots, President, M. Michener Red Deer, Alta.; Directots, Dr. Tolmie, B. C.; W.

Ontario Sheep Breeders in
Convention.

the Association in the management of the Ne tional Live Stock, Horticultural and Dairy Shaw for the interest displayed at the first show in venience of the exhito,tors and stook. The offcers elected were: J, D. Brien, Ridgetown; Vice-Prosident, J. T. Gibson, Denfield; Executive, the Pre sident, D. J. Campbell, Woodville, and Herb. Lee, Highgate; Directors, Cotswolds, J. D. Brien; Lin colns, J. T. Gibson; Leicesters, James Douglas, caledos J O Hors, Southdowns. J. W' Sprip stead, Abbington; Dorsets F. W. Hodgson, To ronto; Hampshires and Suffolks, G. W. Telfer Paris.

## Dominion Sheep Breeders' Association.

The patrons of all breeds of sheep met in the Grand Union Hotel on Friday, Feb. 6th. West and East were represented at this meeting and some animated discussion occurred relative to various points.

The Dominion Sheep Breeders are strong financially, although the cash on hand does not show as large as at the last annual report, there now being \$4,466.17

The registrations for the last year totalled 8 934 and by Provinces they runt Ont., 1,770 Man., 226; Sask., 811; Alta., 239; B. C., 48 Que., 1,183; N. B., 20; N. S., 19; P. E. I., 30 U. S. A., 82. By breeds it is shown that the Shropshire far outnumbered any others in the number registered, showing a total of 1,535, Leicesters, 981; Oxford Downs, 510; Southdowns 164; Cotswolds, 49; Lincolns, 44; Suffolks, 228 Hampshires, 219; Dorset Horns, 180; Cheviots,

The total refund accruing to each Province will be as follows: Ontario, \$399.25; Quebec \$344.50; Manitoba, \$44.25; British Columbi \$11.29; Saskatchewan, \$57; Alberta, \$42; MariThe matter $\$ 21.75$.
The matter of Western representation came be questions to solve before represenld be intricate worked out to the satisfaction of all provin be and all breeds. It has been customary to ap point representation by breeds, while some gued that it was a sheep breeders' association, not a society inaugurated to promote the welfare of any one particular breed. The newly appoint and report their findee wilt the matter up ing. The matter of the power of annual meet tive to the exhibition boards was disoussed and the opinion prevailed that the fair boards do not recognize the representative to the extent that
they should. This matter will also be taken in hand by a committee

The Panama Exposition, occurring in 1915, hibit at that place. The sheep breeders to ex will take the matter before the Government ask that grants be made in order to maintain an exhibit at the Exposition.
bate was moved by John Campbell and seconded our Canadian fall and that the managing boards of cept certificates of registrations from all to ac national registry associations as well as Cananumbers are required in making entries. The no The was carried by a small majority.
The meting unanimously expressed itself in sympathy with the National Live Stock, Horti The officers elected were: President, Cousins, Harriston, Ont.; Vice-President,
Robt. McEwen, Byron, Ont. Seretery-Tre A. P. Westervelt, Toronto; Directors by Breed Cotswolds, John Rawlings, Forest, Ont.; Leicers ters, Jas. Snell, Clinton, Ont.; Lincolns, L. Park
inson, Guelph; Oxfords, J. Dion, St S. Que.; Shropshires, A. Denis, St, St. Sebastien Southdowns, Fred. Skinner, Indian Head, Sask.; shires, P. Sylvestre, Que.; Suffolks, Jue.; Hampgor, Brandon, Man.; Cheviots, F. J. Cromwell,
Cookshire, Que.; O. A. C. Director, Prof. Geo E. Day, Guelph; General Directors, R. H. Harding,
Thorndale, and D. J. Campbell, Woodville, Ont.
IRepresentative don, Brooklin, Ont.; Woronto Fair, W. A. Dry-
lings, Forest, and R. H. Harding, Thorndale; Ot2emervav $2=\sqrt{2}=5$ $\mathrm{v}=\mathrm{F}=\mathbf{v a}$

## Herefords Still Popular

 When the Hereford Breeders Association met in the Prince George Hotel on Feb. 4th it wet announced that the breed had been popular and year. death of Robt Mackie the lete Secretougr the Association, and the sympathy of the Soctety was extended to the relatives.The Secretary's report gave the extent of the transactions for the past year to be as follows: 1.862; transi; importations, 84; registrations, 1,362; transfers, 684; duplicat

The grants to exhibitions during 1914 is lett in the hands of the Erocutive Commilttee and will allotled at a lator date.
The officers for the ensuing year are as followe
. H. Smith. Hamillon; Vice-President. H. dent, L. O. Clifford, Oshewa. Directors, wm Prest ler, Calgary; F. Collicutt, Calgary; J. A. Mut man. Beresford, Man.; Wm. Mitchell, Onhawa. Thos. Skippon, Hyde Park; A. S. Hunter, Dur ham: J. A. McDermit, Stayner; H. J. Reid, Ep-
pingi Jos. Lowe, Meaford; S. Downie, Carstairs, Alta.; Mossom Boyd, Prince Albert, Sask,; Heary Reid, Mimose.

Canadian Shire Men Meet.
The weight of body and quality of bone desired by the market has maintained the Shite horse. in good standing with lovers of the heavy attention to this in his address and from the out look in America he prophesied that this desin for more weight would become universal and the mand for weight increases. In registrations and transfers the transactions have been up to thit of prevtous years, while the financial report show a balance in favor of the Association amounting $\$ 1,510.67$.

The grants for fairs and exhibitions will be the same as last year, with the exception that ceive $\$ 50$ and Brandon $\$ 20$. Calgary also will receive $\$ 20$ and $\$ 25$ will be dispensed to the new National Live Stock, Horticultural and Dairy The matter of representation from the West came before the meeting and J. M. Gardhouse and the President were commissioned to The
Andrew A. Miller Middlemarch. Vice-President C. E. Porter, Appleby; Directors, G. E. Morden Oakville; Jas. Bovaird, Brampton; Amos. Agar Nashville; John Gardhouse, Highfield; Dr. C. E Dougherty, New Westminster; O. J. Hopline Ayrshire Breeders Assembled

The assembly of Ayrshire Breeders, which met n the Prince George Hire on February met lacked nothing in the way of confidence and faith in the future of the Ayrshire Breed. The Prealdent, Wm. Stewart, Menie, drew attentign to the type of cow they have established and urged the and mating. This is one of the their selection tures of the breed yet it is the superiongest fo thelr ability to produce. The President referred to two new records established this year: That o Milkmaid 7th 12374, and Auchenbrain Brown Kate 4th 27943. The former produced an
equivalent of 850.5 pounds of butter, and the latter 1,080 pounds.
the sury W. F. Stephen, of Huntington Quership presented an inspiring report. The meming a increased last year by 162 members, mak coming largely from the Western Provinces, where men, but is hecoming popular with the stock men, but Ontario is not lagging in the race. The especially the 90 head brought in by R R. Nes and J. D. Duncan, both of Howich, Que. Fif ty-four members have this past season registered their farms under a specific name, making in a farm in conno now use the name of their stock. in connection with the certificates of thei in Canada and they are instrumental in further ing the interests of the breed to a marked ex tent. Three thousand seven hundred copies of
the Annual were printed and distributed in all countries, as well 0 a shire Records, setting forth the animals which have qualified in the Record of Performance.
The transactions in totals for the past seaso were: Registrations, 3,258; ancestors, 371 ; trans1,374. By Provinces the registrations were Ont., 1,154; Man., 72 ; Sask., 44; Alta., 155; B.
C., 41; Que., 1,510; N. B., 141; N. S., 96; P. E. C., 41; Que., 1.510; N. B., 141; N. S., 96; P. E.
I., 33; U. S. A., 12.
With the growth of the Association has come With the growth of the Association has come
closed this year with the handsome balance
A matter of discussion before the Associations representing the dairy breeds was that of shortening the period of the tost this the Record of
Performance. Any change in this dion would depreciate the high value of the Canadian test, and the Associatio it is.
One condition, however, which is aggravating
to stock breeders is the freedom allowed to tull to stock breeders is the freedom allowed to bulls was instructed to communicate with all Provin ycial Governisents, asking that they legislate nore stringent freedom of such bulls.
A recommendation will be forwarded to the
Record Office, asking that they keep a card index lor the progeny of bulls as they now do for cows and that a flat rate of 50 cents be establishe The following grants were voted for the differ ent exhibitions: Toronto, $\$ 150.00$. London, Que bec, Halifax, Charlottetown, Ottawa, Winnipog,
Regina, Calgary, Vdmonton, Reed Deer and New Westminster will recelve $\$ 50.00$. Saskatoon will ceceive $\$ 25.00$ and Sherbrooke $\$ 75.00$. Victoria (Dominion) will get $\$ 150.00$, as will the National Officers: President, P. D. Mcler
Officers: President, P. D. McArthur, North
eorgetown, Que.; Vice-President, A. H. Trimble Georgetown, Que.; Vice-President, A. H. Trimble, ington, Que.; Directors, John McKee, Norwich; Wm. Stewart, Menie; Frank Harris, Mount El gin; A. S. Turner, Ryckman's Corners.
Delegates to fair boards: Toronto, Wm. Ral-
lantyne; London, A. Kains and Geo. Hill; Otta lantyne; London, A. Kains and Geo. Hill; Otta
wa, R. R. Ness; Sherbrooke, Jas Borden; wa, R. R. Ness; Sherbrooke, Jas. Borden; IIaliBrandon, Wm. Braid; Regina, F. Harrison; Red Deer, A. H. Trimble; Calgary, R. Ness; Winnipeg, Westminster, E. A. Wells; Quebec, Nap. Lachapelle; Victoria; S. Shannon; Amherst, F. S. Black Ottawa (Winter Fair), Jas. Bryson; Prince A
bert, A. Millar; Vancouver, Jas. Thompson.
EThe Interest in Standard-breds is Dominion Wide.
A goodly number of Standard-bred promoter gathered to the Prince George Hotel on February 3rd. Some came as far as 2,000 miles to
assist in outlining the future program in the in terests of their favorite horse. The past year has been a prosperous one for 560 individual have been registered, 93 have been transferred and the memberships amounted to 146 . The exceed the liabilities by $\$ 2,520.06$, leaving the association financially strong.

During the proceedings some discussion arose over the withholding of grants to exhibitions which had not complied with the rules governing the grants. It was decided to make no con-
cessions in the matter whatever, but adhere firm ly to the rules of the Association. This stand in the best interests of the future of the breed. born last New Canadian Trotting Association subject for some animated discussion. The committee found difficulty in securing a Dominion Provincial chey directed their efforts towards acquisition of a which might in time make the This did not meet with unanimous approval, but the proceedings being of a technical nature, the the Society.
culture at Ottawa from the Department of Agri taken to put Standard-breds and Hackneys on government bonuses to stallions for service breeding and raising army remounts throughout The total grants to exhibitions for 1914
amounts to $\$ 1,000$, to be divided in $\$ 50.00$ bonuses to 20 fairs. This $\$ 50.00$ will be divided
between the best stallion any age, and best mare The following officers were elected : Hon.
President, O. B. Sheppard. Toronto ; President, J. Wesley Allison, Morrisburg; 1st Vice-Presi-
dent, W. J. Cowan, Cannington; Secretary-TreasCall, St. Thomas; R. J. Speers, Wilkie, Sask.
C. W. Spears, Brandon, Man.; J. M. Baldwin,
Killarney Man. Killarney, Man.; C. W. McLean, Brockville ; Hon,
Clifford Sifton, Ottawa ; S. A. Proctor, Toronto ; Alex. Mclaren, Buckingham, Que.; Dr. W. E:
Baker, Hamilton H. Ashley, Foxboro ; Hon.
John Richards, Bideford, P. E. I.; Ald. Sam Mc-
Bide, Toronto ; Auditor, G. L. Blatch, Ottawa;
Represer Representative ; Auditor, G. L. Blatch, Ottawa
O. B. Sheppard.

The Canadian Pony Society.
Canadian Pony Socimportang of the George Hotel on February 5th. The SecretaryTreasurer, G. de W. Green, in his report, comgratulated the society on a prosperous year in \$143.70, Starting with a balance on hand o \$562.09. Membership fees were \$92, as compared with $\$ 76.00$ in 1912 , and registration fea $\$ 453.40$, as against $\$ 13985$, a very satisfactory increase in both cases. The pony clasees at the Toronto Spring Show and the Conadian National were better filled than were better filled than they have beon for some years with ponies of a spleriaid type. Reports
from other shows were to the same effect ing 1913 no fewer than 359 ponies of different breeds were imported into this Dominion, which From Great Britaing popularity of this class. females, and from the United States seven males was very small.
The following officers were elected : President Charles Lovejoy, Mimico : 1 st Vice-President, W. Gardhouse, Weston ; Hon. President, T. A. Cox. Brantford : Secretary-Treasurer, G. de W. Green H. M. Robinson, umbus : Robert Graham, Claremount; T. Cussion Whitby: B. Mothersill, Oshawa; J. E. Marfles,
Hartney, Man. ; E. Watson, Hudson Heights, Hartney, Man. : E. Watson, Hudson Heights,

Ontario Berkshire Breeders' Society. shir 'Bend thusiosm for patrons of the acBlacks" sident John Kelly geve woice to this in his dress and, as forward steps, suggested that auc tion sales be held at the fall fairs that breeder might-dispose of their stock to good advantage In order to encourage competition in the bacon classes and bring out a strong exhibit of Berk shires the Association will duplicate all prizes won by pure-bred Berkshires to the extent of 50 fairs in 1914.
The financial statement showed the Association to have $\$ 76.51$ on kand and the coming year will turn $\$ 150.00$ more into the treasury than it has in the past from the Dominion Swine Braedbe dispensed to the various fairs and increased prizes.
The
and Canadian National, Guelph Winter Fair Show will Live Stock, Horticultural and Dairy Ottawa Winter Fair will raceive $\$ 50.00$, The Central Canada Fxhibition (Ottawa), and the Western Fuir (London) each receive $\$ 40.00$.
. The officers for the ensuing year are: President dewhip Cainsville. Kirch; Vice-President, J. M. Van, A. P. Westerown Frank Teasdale, Brampton; John Kelly, ShakesStation; Executive Committee, P. J. McEwen, John Kelly and J. D. Brien.

## Banquets.

During the week of meetings several banquets were tendered the stockmen by the societies and associated enterprises, all of which wer thoroughly enjoyed.

The patrons of the Holstein met in Nasmith's Parlors on the evening of February 4th, and thoroughly enjoyed a sumptuous repast, supplemented with speeches and music.

The Ayrshire banquet, held on the same evening in the Prince George Hotel, was the most successful in the history of Ayrshire festivities. Nothing was lacking to make the evening a
pleasant one, as well as inspiring and instruc The complementary banquet tendered the
stockmen of Canada by the "Canadian Farm" was enioved by representatives from one end of Canada to the other. The large dining-room of the Grand
Union Hotel was completely filled with men of different politics, opinions and creeds, yet a feelassembly, and all were profuse in voicing their appreciations of the princely hospitality of the
host, W. Moore. Among the speakers were Hon. Martin Burrell, Hon. Geo. Ppeakers were: Graham, Wm.
Wmith, M. P., Hon. Jas. Duff, Dr. Rutherford and John Bright. Music and song supplemented the speeches and substantial spread on the leave a lasting impression on the memury of the
guests.

Ontario Fair 3 Hal A Gojl Yıl: On Thursday and Fridiay of last week the 14th annual convention of the ontario Fairs and bx: Hall. Toronto. A large number of delectates were present, showing, as the Secretary said, that agricultural societies in this province are not slipping backward, but are forging ahead to wards the pinnacle of perfection. The President Dr. W. A. Crow, of Chesley, in his address, Te-
viewed the condition of the Association as it applied to last year's work. The various societies were more fortunate in 1918 than in 1912, by be ing favored with better weather, which means al most everything to a county or township exhibition. Dr. Crow advised the convention to ask in the carrying on of this work. He also be lieved that district directors should be allotted more money for the purpose of furthering the work of their districts.
To avoid the conflicting of dates of fall fairs it was advised that each director call a meeting of each district to arrange the dates throughou the district, so as not to confict with one an
other. It wes his opinion that standing fiel crop competitions and showing of grain and sheaves from the fields entered therein is proying a valu

Secretary J. Lockie Wilson, in his annual ro port, stated that a spirit of optimism permeated Ad from the various societies. Ehchibits of live stock were never so numerous and of such a high quality as was the occasion last year. Roots and vegetables in some sections, owing to the fact that the crop was a failure, did not make as large a showing last fall as upon forme and as a consequence only a little over $\$ 3,600$ of the appropriation to meet bad weather conditions was required to settie the claims made. It was pointed out ly Mr. Wilson that the Act as it now stands is scarcely fair to societies which bad weather for two or three years in succession, seeing that it is based on one-hall the difference the average of those of three previous years. He recommended that the wording of the Act be
changed to read, "The average of the gate receipt of three previous averngal years: portant duty, es a district director, he believed to cail a meeting in a central location to be attended by at least one delegate, from each agrithese societies, and the arranging of fair dates took it upon himself to endeavor to arrange that departmental judges could only be sent to the societies, the dates of whose exhibitions have been fixed in such a district meeting. One hundred and ninety-nne judges were sent out by the Asociation to fairs and exhibitions propriation for this branch of the work was not propriation for this branch of the work was not plications came in late had
is a good record. It was pointed out that no
man sent to judge all breeds of cattle is likely to man sent to judge all breeds of cattle is likely to give as good satisfaction as where a dairy
specialist is provided for the dairy cattle and a beef breeder for the beef cattle.
Field crop competitions have been carried on
for seven years, and 3,500 farmers have or seven years, and 3,500 farmers have taken part in these competitions. Nearly 100 judges the past season. Neariy 200 societies entered but, owing to drouth and other conditions, some
were unable to remain in the competition to the end. Prizes , in all amounted to $\$ 1,500$ for sheaf and grain. Splendid exhibits were put on at the various show in the fall, and the department agricultural specialists the winning grain. Six hundred bushels of prize-winning grain and potatoes have thus been disseminated.
It is a matter of regret for the secretary that certain agricultural societies again in 1913 permitted the use of gambling devices on their drounds, where ore pal from the 50 hun the unwary. Grants to such societies are with held.
The proper weights for the classification of horses have been decided upon. General-purpose were told that the prize lists are revised to comthat it would he wise to hove exhibiton though classes, when making entry, required to file cer tificates of weights of horses, Heavy Draft orses matured should weigh 1,500 pounds and pwards, Agricultural horses from 1,350 to The minimum height should be 15.3 for Generalpurpose animals.
Following the President's address a lengthy discussion was entered into after which Prof. S. B. McGready took up the co-operation of agricul-
tural and horticultural societies with the depart-
ment of education in introducing agriculture into the schools. The rural problem, , he believed, to
be how to hold for the country an adequate popbe how to hold for the country an adequate pop-land-owing people and the factors in the prob lem to named as five-the home, the school, the thurch, agricultural organizations, and last, but not least, the agricultural press. Among the defects which the sees in rural schools, that the teachers are isolated in their work, a large num
ber of them being young women not roral-mindber nor equipped for leadership, and even these are forced to change schools frequently. Pupils attend irregularly, leave schoul early in life, and When in school come with lessons unpreparea and very often do not look up to the teacher, or take ents are often unacquainted with the work of the achool, which makes more difificult the work of the teacher, and very often prone to criticize rather than help the teacher. Trustees too often try to save money, do not back up the teacher the value of a good education. Unatitractive school buildings, grounds, and fences, no facilities for play, poor seating accommodation, ding unadorned walls, dirty floors, poor lighting, no ventilation and poor equpment are the case of many school failures. There is urgent need, on
account of their being so may weak schools, for co-operation and consolidation, also for township high schools for the country pupils.
Ho advised that the agricultural societies aid in bettering these conditions, oy appointing a agricuitural eavcation committee to work with the teacher and trustees, that they should inwith systematic instruction by the teacher and practical work oy the pupils in hom scho plots as well as introducing agricultural books into the school, improving the grounds, and buildings, making better facilities for play and music, and thus make the school a centre of the od by giving many and small prizes, which will tend to improve the conditions of the school. Among the prizes which he advised giving to of agricultural books, prize shed shrubs bures, set of agricultural books, prize seed shrubs, bulbs and pthis if carried out, he believed, would result in better teachers, pupils, trustees, school patrons and better schools, which would eventually be an upift for education for country life and a better
country. This, he believed, to be the biggest job in Ontario today.

The Sixth Annual Corn Show. It is an eager, interested crowd that attend The annual Corn Show. The Show ittelf is a
live institution. It has none of that staleness which is observable in some of our great fall exhibitions, which have run along without much
Change for several years. Nothing but corn is change for several years. Nothing but corn is
exhibited, and yet the prize money offered runs up to $\$ 1,800.00$ and over run It perhaps, ought to be spoken of as the it,-but everybody calls it the Corn Show, and If that name it will likely continue to be known It is held yeariy in the southwestern counties of this year at Chatham, Kent County, on Feb. 3rd In the display at the Exhibitions are to be seen the
Canada.
Dery
Dent corns are there many vown in of them, white, yellow, and white a yellies flint corn, eight and twelve rowed, in white, yel low and red; popcorn in similar colors and sweet corn, that most toothsome species, in black as well as yellow and white. The exhibits are entered and arranged in various classes, such as
general, county, part county, township, junior
etc. Prizes are outered aleo for winners in judg ing contests for seed testing germinators, and for decorative erections done in corn. As this grain is speciaky suitable for decoration an accund prizes are offered in this latter class, most of the ornamental erections competing are very elaborate and attractive. There being many possibilities or securing a prizo, ow port for the large number of exhibitors who enter, and in consequence for the keen interest of the throngs who attend the show. But the display is attractive in itself, and the whole countryside is interested in corn and its improvement, therefore, also the crowds which gather from all parts of the Southwestern Peninsula
tion has from the first paid Growers' Associa educational as well as exhibition features. Every forenoon this year Prof. Norgord, of Wisconsin


Best Ear Yellow Dent Corn in the Show.
struction in corn selection, both lecturer and listeners having corn ears before them. Many of those who attended this class had grown corn before Pror. Norgora was born, and yel were content to act as learners still: During every after-
noon there were addresses given in Oddfellow's noon there were addresses given in Oddfellow's
Hall (the show was in the armories) by several of the best qualified men in the country, Prof Norgord, of course, included. Prof. Zavitz, 0 A. C.,., Guelph., spoke of "Improvement of Farm Crops, Jack man, Secretary Canadian Seed Growers' man, Secretary Canadian Seed Growers' Associa Types of Seed Corn Required." An illustrated address on "'The Teaching of Agriculture in On-


Winners a Good Septette.
Winners or seven prizes for Single Ear Yellow Dent
corn. Counting trom
 tario Schools" was given by Prof. McCready, o. dress dealt with "Corn for Seed," "Silag," "Alfalfa," and kindred topics. Another address, and which excited keen interest on account of the present stringing of Niagara Power and Light "Hydro Electric its use the Fasor, was on Home," by J. W. Purcell, one of the engineering staff. A very full feast of good things, as every one will allow, and which was much appreclated standing room being often at a premium.
have given several addresses, but his duties as Oudge kept him engraged almost to the last hour. more in the nature of an entertainment was held presided over by Mayor McCorvic. Speeches iv Hon. James Duf, Minister of Agriculture, Preeldent Creelman, O. A. O., Guelph, G. W. Sulman, ine quartette music and readings, and every by present seemed to enjoy the lighter part everyone entertainment, and to approciate the speeches Looking over the audiences gathered in the afternoon one could not but be struck with the fne-looking, intelligent, strong faces of the The story of the lives of the older men in hail. The story of the lives of the older men in p pression and attitude. They had not had easy time all through; they had faced many di culties, but had steadfastly surmounted them. not losing temper in the process, strength of mind and brain power being developed meanwhile,
and now in comfort and in good conscience then were at peace with all men, their intercest in affairs and "corn" not in the least impaired Considerable freecom was ullowed and taken by the audience in the arternqon meetings. commendation of alfate as a valuaslon in to give some hints as to how the hay should treated. Care should be exercised to keep the leaves from being lost, as they were easily broken off and were by car the most valuable part, He quite dry, covering with hay caps and allowing it to remain in the field for a few days to sweat. "But." spoke up one, "you couldn't then use "No." said Prof. Norgord, "but I think this the "There advisable way. recommend continued after other, "you wouldn't morning raking atter the dew was our in the in the next day and tramping it woll ding it the "mow ?" ${ }^{\text {N }}$ " wouldn"t," was the answer, "It would likely heat and spoil.
show you some cured in that my barn and III right," was the cured in that way, and it's all laugh on the professor, who was not a great however, but insisted that while that might an swer at times it was not sufe practice as a rule. Other Gllints From Speakers.-"Varieties of oats that weigh heaviest per measured bushel, as a rule, are poor yielders and of poor quality.
Have large percentage weight in hull,

Silage is a wonderful feed." Prof. Norgord 'Seed corn should be dried and kept indoors," Prof. Norgord.
. "We make a big mistake when we kill our
birds." Jack Miner. "A robin eats, in the early season, fourteen when we see him getting two cents worth of cherries," Jack Miner.
profit must be returned to psers,", "A blower on a cutting box takes four time" the power that an elevator or carrier does."

Agriculture is taught more effectively by na-
ture study than by books." Prof. McCready.
as of roots.," Prof Nood value per acre of corn "Remarkable improvement in the type of corn exhibited since the show started sociation officers of the Ontario Corn Growers' Asthe evening of the 5th inst., all re-elected. President, Byron Robinson, Wheatley ; Secretary, W. E. J. Edwards. Dept. of Agriculture. 1st Vice-President, J. H. Coatesworth, Kingsville;

## Markets.

Toronto.


> Receipts of live stock at the Union
Stock-yards
The the thandity of the buast week were light.
The the fat cattle The quality of the bulk of the fat cattle
was far from being good, not as good as they sho id be after being two to
three months in the stable. There a hree months in the stable. There were
a few choice loads. not more than ten during the week. There were many cat-
tle that ought to have been kept the that ought to have been kept in the
stable for two months longer, instead of bringing them on the market, cattle that
had just got in good, thriving condition Trade was in good, thriving condition. nearly all week, ond
prices were no hither than of the previous week. The top price
paid during the whe the the pald during the week for two loads of
choice steers was $\$ 8.50$. choice sters was 88.50 . Stockers and
feeders were few in number. and prives
remained wer torward springers were in good demand,
at firm prices. at arm prices. Sheep, lambs and calves,
were firm, at steady prices, but hogs
sold at lower guotation sold at lower quoatations at the close of
the week than at the commencement.
> Butchers'.-Choice steers. 1,300 to
only two loads at the Inter price; good
steen steers and heifers, 87.50 to $\$ 8$ midedium,
87 to $\$ 7.25$; common, $\$ 0$ to 86.60 ; cholce cows $\$ 86.75$ to $\$ 7.25$; good cows, 88 to 86.50 ; medium cows. 85.25 to $\$ 5.75$;
common cows, $\$ 4.50$ to $85 ;$ canners common cows, 84.50 to $\$ 5$; canners and
cutters, $\$ 3.50$ to 84.25 ; choice bulle, 86.75 to 87.25 ; good bulls 86.25 to 8.5 to $\$ 7.25 ;$ good bulls, 86.25
$\$ 6.50$ : common bulls, $\$ 5.50$ to $\$ 5.75$. Stockers and Feeders,-Receipts were light all wek, not enough to supply tho
demand. Prices remained arm. Chote steers, $\$ 7$ to 87.35 ; good steers, 86.50
 Veal Calves.--Receipts were light all
week, which caused week, Which caused 1 frm prices. $\$ 11.50$ per
veal calves sold at $\$ 10$ to
cwt cwt; ; good calves, $\$ 9$ to $\$ 10$ medium,
$\$ 7.50$ to $\$ 8.50 ;$ common, rough calves, $\$ 5.60$ to $\$ 8.75$. Sheep and Lambs.-Sheep, light emes,
$\$ 6.50$ to $\$ 7$; heavy ewes, $\$ 5.50$ to $\$ 6$;
 and wethers, 90 to 100 liss,.
heavy lambs, 88 to $\$ 8.75$.

## THE FARMER'S ADVOCATE.



A Savings Account As An Investment A savinge account in the Bank
of Novascotialisem ideel investment for three reasons. Pirret it has the most important roilmay readily ivailabile in cash.
 mad, ir you do not wish to tois oft,
is compounded for you twich Year Calal and Surplus, $117,000,000$. Toptal Ansd turplus, $18,000,0000$.


## The Bank of Nova Scotia  5


 Tod and watered, and 88.90 i. $0 . \mathrm{b}$. carrs.
 kot during the weel.
Union Hores.-There wxes little doing at the Union Horse Exchange. Union Stoke
Yarris, liast week, and, in thect, ail the Yards,, ast welk, and, in fact, aill the
seoveral horse exchanges are
reported as several borree exchanges aro reported as
doing very
ditite.
Only change, end a tew small tote were Exid to local buyero. Prices wero wechanged,


 breadstuffs.


94 e. .
Oats,, Ontario,


 stidecwheat.-No. 2, 275c. to 76c., out-
Oora. American, No. 8 yellow, 70 ..,
 Flour- - ntarle., outaide.
 Tronto are : Firrat patente, 35.30 ; ecocond
 HAY AND MILIFEEED.











 Delamares, poc. per bag,
Poultry - -Recolpts
wero about steady. Turkeys dreseced, 20ce, to
 toronto seme market.



 No. 1 inspected sters and cows, 18 ci;
No. 2 inspected
steors
and

 to
to
toc;
horre tallow, No. 1, per ib., 5te. to 7 e.
FRUITS AND $\backslash$ EGETABLEs Receipts of all kinds of trutita and vege. which arero eany, at at the pricice quoteod.








## Montreal.

Live stock-Trade in cattio mas rather

 diener. Ther was no roally choilcostocil
 ing was done at 7 co., and madium quality
ranged ail tho way from be. to 6 bic
and
 baile and cowar ranged down to 4c. per ib. It would wome that thero has been quito a demand of late for mill cowas. at
prices ranging all the way up to sion
 Somo choleo thmbe sold at \&to., while medium brought about 8ce, and ehbee In calves mas fatiry active, and pricoes ranged from 88 to 88 for common, and ap tros tra tor the best. The live hoge
market was firm in tone, and priceas of market wan arm in hone, and priceas ib. veighed off cara.
Horea..-The market was moderatals active, and prices frm. Hoevy dratt,


 chaicest saddile and
Pouli

 180.
18.
Dres

Dresed Hogs.-Dresed hops were frm stock sold at 18tc. to 14c. per 1. 1b. while
 bo., according to quality
Potatoes-Supplies were fairly large.
 in weigh 90 lbs.
Honeog and Ssrup.-White - clover comb
 strained, 7 7ic. to 8 Bd C . per lb. Tine of maple ayrup sold at 9c. to 10c. per lib.
while gyrup in wood was 7 C. to 8c., and while syrup in
maple sugar,
maple sugar, 9c. to 10 c. per lb.
Eggs.-Prices of eggs were considerably easier last week, supplies being larger. Strictly fresh stock was 40 c . to 41c. per
dozen, selected eggs being firm, at the former price of 35c. to 36c.; No. 1 can-
dled at 30 c . to 31 c ., and No. 2 candled dled at 30 c. to 31 c ., and No. 2 candled
at 26 c . to 27 c .

Choice makes were 28 दic. to 29c. per 1 lb whilesale; fine butter was 27 jc c. to 28 c . Dairy butter was firm, at 23 c c. to 24 c , per lb. for Ontarios, and 22c. to 221 e

Grain.-No. 2 Western Canada oats ex store ex store, in car lots; No. 3, 41 f c .
42 c ., and No. 2 feed, 40 lc . to 41 c . 42c., and No. 2 feed, 40 fc. to 41 c .
Flour.-Manitoba first-patent four quoted at $\$ 5.40$ per barrel, in bags; seconds being $\$ 4.90$, and strong bakers
Ontario winter-wheat four unchanged, at $\$ 4.75$ to $\$ 5$ for patents, and $\$ 4.35$ to $\$ 4.50$ per barrel, in wood,
Millfeed. The market for millfeed again advanced. Bran sold at $\$ 23$ per ton,
dliogs were $\$ 25$, including bags. Mouille dliogs were \$25, including bags. Mouille
dlings were $\$ 25$, inclusing bags. Mouill was $\$ 30$ to $\$ 32$ per ton for pure, and $\$ 28$ to $\$ 29$ for mixed.
Hay.-Prices were about steady
1 pressed hay, car lots, Montreal, e track, $\$ 15$ to $\$ 16.50$ per ton; No. 2 $\$ 13.50$ to $\$ 14$. ers bid 5fc. to $6 \frac{1}{c} \mathrm{c}$. per 1 lb ., country
points? Alsike was about the same as pointsf Alsike was about the same as a year ago, at $\$ 8$ to $\$ 10$ per bushel of
60 lbs. Red clover was lower, at $\$ 8$ to $\$ 9.50$ per bushel.
Hid., for Heef hídes were 12c., 18c. and 14c., for Nos. 3, 2 and 1 , respectively.
Calf skins were 15 c . and 17 c . for Nos. 2 and 1, and laimb skins were $\$ 1.10$ each, with horse hides ranging from $\$ 1.75$ for
No. 2, to $\$ 2.50$ each for No. 1. Tal low sold at $\$ 2.50$ each for No. 1 . To 3 . far rough, and

## Buffalo.

week were about ten carloads the past han for the preceding week. Trade,
oxcept on choice, weighty, end handy oxcept on choice, weighty, and handy,
butchering steers, was a shade lower, and medium weight, hall-finished grades, raled very slow, and sold a shade lower.
Heifer stuff, excepting the fancy kinds, uled a shade easier, and at no time during the week was there any consider able life to the market. The West was
weak on anything but the best - finished steers, and Eastern order buyers here went very slow on the warmed-up steers, as they have been showing a low per centage of kill. Toppy steers ranged from $\$ 8.95$ to $\$ 9.10$, sellers reporting sat real prime, heavy ateers, would pos
sibly bring up to $\$ 9.25$; but there ar sibly bring up to $\$ 9.25$, but there ar
ew of the kind coming to any of the American markets at this time. It is a
question with the feeder, whether to for ard the warmed-up steers to market and take a dollar and more per hundred them on a thirty- or sixty-day feed and take the chance, feed being regarded as rather high at this time. Butchering cattle are running largely to the medi-
um, light-welght grades, and local conum, light-welght grades, and local con-
sumers are shying at them, proferring to pay more money and get the better lill1been conging in light numbers, and are bripecing strong prices, demand being especially strong. Bulls are solling
higher, in comparison, than any other higher, in comparison, than any other
class, top bulls being quotable up to $\$ 7$ class, top bulls boing quotable up to $\$ 7$
to $\$ 7.50$. Heary, best-producing millers, and very forward springers of the more desirable class, are selling satisfno torily, but the common kinds in this divi-
sion are selling in plenty of instances at beef prices. Receipts the past weelk were 4,250 head, as compared with 4,025 the previous week, and 4,075 a year ago.
Quotations: Best 1,850 to $1,450 \mathrm{ib}$. steers, natives, $\$ 8.85$ to $\$ 9.10$; best 1,200 to $1,800 \mathrm{lb}$. steers, natives, $\$ 8.50$ to
$\$ 8.75$; best $\mathbf{1 , 1 0 0}$ to $1,200 \mathrm{lb}$. steers, $\$ 8.75$; best 1,100 to 1,200 lb. steers,
natives, $\$ 8.10$ to $\$ 8.40$; coarse and plain, natives, $\$ 8.10$ to $\$ 8.40$; coarse and plain,
weighty steers, natives, $\$ 7.25$ to $\$ 7.75$;
Fancy Fancy yearlings, baby beef, $\$ 8.25$. Best Canada steers, 1,350 to 1,450 lbs. $\$ 8.25$ to $\$ 8.50$; best Canada steers, 1,150 to 1,250 lbs., $\$ 7.50$ to $\$ 8$; choice, handy
steers, 1,000 to 1,100 lbs, $\$ 7.75$ steers, 1,000 to $1,1,00 \mathrm{lbs} ., \$ 7.75$ to
$\$ 8.25$; fair to good steers, 1,000 lbs., $\$ 7.50$ to $\$ 7.75$. stre 1,100 $\$ 6.75$ to $\$ 7$; best cows, $\$ 6$ to $\$ 6.50$; butcher cows, $\$ 5$ to $\$ 5.50$; sutters, $\$ 4.25$ to $\$ 4.50$; trimmers, $\$ 3.50$ to $\$ 4$; very common, old rims, $\$ 8$; best heifers, $\$ 7.50$
to $\$ 8 ;$ medium butcher hellers; $\$ 6.50$ to $\$ 8$; medium butcher helfers, $\$ 6.50$ to stock heifers, $\$ 5,50$ to $\$ 6$; best feeding
good steers, $\$ 6.25$ to to $\$ 7.25$; tatit to steers, 80.50
 $\$ 7.25$ to $\$ 7.50$; 86 ; extra good bulls, \$7.25 to $\$ 7.50$; bologna bulls, $\$ 6.50$ to
\$7; stock bulls, common to good, $\$ 5$ to
86. hegt mill \$8, best milkers and springers, $\$ 75$ to
$\$ 100$; medium \$100; medium to good, $\$ 45$ to $\$ 50$; commons $\$ 30$ to $\$ 40$.
Hogs.-Hog market on the Jump all of
last week, the wind-up being anecrd last week, the wind-up being a record-
breaker for the year and time since the year, and the highest 1913. Generally, a $\$ 9.25$ market for best-weight grades the latter part of
week, three or four decks reaching $\$ 9,30$. week, three or four decks reaching $\$ 9.30$.
Pigs, $\$ 9$ to $\$ 9.10$; roughs, $\$ 8.25$ to authorities are predicting the Some Receipts the past week, 27,200 ; previons week, 85,360 ; year ago, 34,400 .
Sheep and Lambs.-Lamb trade very dull first four days last weelk, buyers getting
choice ones towards the close of the week down to around \$8, reaction on Friday bringing them up to reaction on
lambs; $\$ 7.50$ down; best yearling wethers, $\$ 7$ to $\$ 7.25$; choice wether sheep, $\$ 6$ to \$8.25; ewes, $\$ 5.25$ to $\$ 5.75$; cull sheep,
$\$ 4.75$ down. Receipts the past week, 82,200 ; previous week, 81,600 ; year ago, 82,200;
first day -Market past week was active, tops reaching si2.50, being the high day, general market for tops being $\$ 12$. Culls, ceipts the past week, to 86.50 . Reweek, 1,300; year ago, 1,650; previous Butter.-Demand fair; steady. Cream-
ery prints, 29 c ; 25 c . to 26 c .; dafiry, fair to good, 22 c . to 28 c .
Cheese,-Trade fair; steady. Fancy, Fggs.-Trade fair; steedy to easy White, tancy, 84c, to 85 c . Dressed Poultry.-Active, firm. Tur-
leys, per 1b. 24 e . to 26 c ; chickens, good, 16c. to 17 c, ; fowls fancy, 17 c , to
18 c, to 18c.; ducks, per 1b., 18 c . to 22 c .; geese, Live Poultry.-Demand fair; firm. Turkeys, per 1b, 20c to 22e, fowls, choice,
17 c , to 18 c ; fowls, fair to good, 16 c , to 17 c .; chickens, per lbo, 16 c . to 18 c ,

## Chicago.

Cattle. - Beeves, 87 to $\$ 9.50$; Texas
itteers, $\$ 6.90$ to $\$ 8$; stockers and feeders $\$ 5.50$ to $\$ 8.10$; cows and heifers; $\$ 3.50$ Hogs.-Light, 88.45 to $\$ 10.25$. $\$ 8.48$ to $\$ 8.75$; heavy, $\$ 8.40$ to $\$ 8.75$, rough, $\$ 8.40$ to $\$ 8.50$; pigs, $\$ 6.25$ to $\$ 8.50$; bulk of sales, $\$ 8.60$ to $\$ 8.70$
to $\$ 5.85$; yearlings, $\$ 5.65$ to $\$ 6.50$ lambe, native. $\$ 6.75$ to $\$ 7.75$

At an auction sale by various breeders, rice reached was 5650 22nd, the top y C. F. Curtise, and the alghest for oar was $\$ 550$.

Tublic attention of dalry farmers and the pubilic generally is called to the adveron February 20th, of higheolass, recorle making Jersey cot high-class, recoraand heifers in mills, and bred to highclass sires, the property' of Wm. J. Beaty, aelph, Ont. Included in the ofering are a number of horses and pigs, and ip the advertisement, and, is interested attend the sale.

## SALE DATEES CLATMED.

Fabruary 18th.-F. 1. L. Talbot, LamFebruary 20 th.-W. grates Beaty, Guelph March 4th cattle and horses. pure-bred sth.-Amnual Provincial sale of March 5 th. -H . Nichol ${ }^{2}$
ville, Ont.; Shorthorns and Son, HagereMarch 11th.-G. H. MeKensle, Thorn March Hill Holsteins,
March 10th.-Norifolk Holsteln-Friestan Breeders' Club, at Simcoe, Ont.; HolMarch

12th.-H. R. Patterson, Parla March 24th.-Beles Bros, Penel-t April 9th.-P. J. Sally, Lachine Raptas, April 9th.-P. J. Sally, Lachind Re
Que.; dispersion sale of Eoletolna.


## A Love-Song.



St. Valentine's Day and Its Superstitions.
A mystery thet to not Hikely to be eoral Solint valentines became regarded as the patron-seint of lovers. It appears, tndeed, that an old heathen restival in mes held in the early ages on the 14 th of February. Later. this day was set apart as the testival of the two most colebrated Saint Valentines, the one ${ }^{2}$
priest, the other Bishop of Terni, both priest, the other Bishop of Terni, both martyred on the same day during the
relign of Claudius. and it is possible that the association orikinated in this coineidence, but nothing definite is known. At all events, St. Valentine's Day soo became popular. and, whatever his con-.
pection, good St. Valentine himself, it is pection, good St. Valentine himself, it is
to be feared, was, ere long, not even an to be feared, was,
Cchaucer and Shakespeare, both allude
to the day, and delighttul semel who wrote his famous "Diary" in the reign of Charles III, speaks of it more than once. In his time, it: seems, it was
eustomary for married fols also to be customary for married folk also to be
"valentines." for he tells with his detail of how one "lititle will Mercer" came up to be hus (Pepys') wile's valen-
time, "and brought her name writen time, ap and brought her name wraten-
tipon bus paper in gold letters very upon blue paper in gold letters, very
pretty, and we were both well pleased With it." "I am also my witi's valen-
tine this year." he adds ruefully, "and it will cost me five pounds, but", -with resignation-"that I must have laid out if we had not been valentines."
Scarcely so enenous was
Scarcely so -generous was he as the
Dulee of York, who, he tells ws Dulke of York, who, he tells us, gave his
valentine jewel worth $£ 800$. During the centuries, many pretty
superstitions have become clustered about St. Valentine's Day, and among them all. none is prettier than the idea prevalent
in parts of rural England, that all birds ohoose their mates at that time. How at least as old as the days of Shakespeare, for he makes one of his characters say., " Saint Valentine is past,
Begtn, then, wood blrds but to couple With the superstition, naturally, have
become interwoven many love tests and "spells," whieh last, "for nonsenses sanke,
even to this day. "It is customary in the Peak district," says a writer in T .
P.'s Weekly, .for unmarried P.'s weekly, "or unmarried girls to peep
through the keyhole or the house early
on St Valentiness morning before anyone else in the house is astir. $\begin{aligned} & \text { They believe } \\ & \text { enat }\end{aligned}$ if this is done tasting. omens of the year to come will be seen. For in-
stance, should a cock and hen pass together, the kirl may be sure that she
will be married ere the year is out; if she sees a robin alone, it is a sign that
she will have a fortune telt her; if a
that her good name will be in danger unless she take heed; whilst it a hen em old maid. "The Icelanders are very superstitiou concerning the raven, and many quain
legends are associated with St. Valentine's Day and the doleful bird. In many parts of the British Isles, too, we
And that the bird is believed to have And that the bird is believed to have a
knowledge of the future. old folk tales two morning to roam all over the world, and to collect intelligence of what was going on. In the evening they, returned, and
would then perch on Odin's shoulder and relate to him all the news they had
gleaned. As a reward, they gleaned. As a reward, they were allowed
one day in the year fiee, when they might, if they chosear vent their spite on any who had offended them in their wanderings. Folklore tales tell us that the
ravens selected St. Valentine's ravens selected St. Valentine's Day as
their annual holiday, on which they their annual holiday, on which they would
play pranks with mortals-hence the lief in them as birds of ill omen on this particular day. An Oxfordshire tradition has it that the first person seen on
St. Valentine's Day is the luck of the year. A dark man is supposed to bring much good fortune; but a dark woman
means that there will be jeallowy strife. A red-haired man means that one's friends will be true; but a red-
haired woman denotes that; one will haired woman denotes that one will be unfortunate in business dealings. put on any article of apparel wrong side
outwards on this day is, by many people, considered a fortunate many peo-
omen-par ticularly so with stockings; but in Scotland it is said that she who hooks in a
wrong hole or buttons her clothes awr on St. Valentine's Day, will meet with some misfortune before the day is ended.
A new dress, or even some trifling article A new dress, or even some triting article
of clothing, worn new on this day is said to bring luck.

- Formerly, every swain sent his Phyllis a dainty Valentine epistle, she shyly tendering him her offering in return. The custom is still observed in rural discolor of the missive. Blue is paid to the the luckiest color in the Midlands, and happy indeed is the lass who gets a
filigree satchet with a wreath of lorget me-nots, or some other blue flower. A green valentine denotes that the lover is
tiring of his flame, a yellow one that he is jealous, and an old saying runs:-


## Blue is true, yellow is jealous, Green forsaken, Red's

White is Love, and Black is Death.
Another rhyme of the Southern Coun

## If you love me, Valentine true

If you hate me let it be seen,
Send me a ribbon, a ribbon of green.
"Charms and spells as a means of inspiring love potions have always been
famous on this day. In the Middle Ages such love medicines were advertised for sale, and it is well known that the an-
cients believed the koman poet, took his life in an amorous fit caused by a love potion, and
Lucullus lost his reason in a similar way. Italian girls practice the follow-
ing charm on the Eve Alizard is caught, drowned in wine.
then dried in the sun, and its body re. duced to powder. A little of this
or a maiden, all she has to do is to cut. or prick, her inger, the ring anger being
chosen, into a glass of wine. which she must afterwards give to the man of her choice
to drink will then be madly in love with her."


Robert Cavelier, Sieur de la Salle.
Little Trips Among the Eminent.
THE HERO OF THE MISSISSIPPI (Continued.)
In 1678, the frrst step towards the ac the expansion of the power of draam o the westward seemed achieved. had gone to France, and after a series publicity that was ever gall and wormwood to his shy and sensitive soul-had obtained a commission for the exploration of the far west, with authority to the trade in buffalo skina monopoly of appear, however, that means it does not expenses were forthcoming, for it is his own money, raised extensive loans among his friends, loans to be repaid to be the These arrase
last set sall for Cans completed, he at lowers, including the valliant Tonti folknown among the Indians as the "bis had lost an arm in a former viego in On the 18th of November, the arst division of the expedition for the weat ieft Fort Frontenac-L.a Motte, the
Recollet friar Hennepin, others, in a vesel op and sixteen lowing the north shore of Lake Ontario,
in ten days the little Indian town on the site of the present city of Toronto. At the mouth of the
Humber it was frozen in, but the marler cut a way out of the ice, and the vessel
crossed without mouth of the Niagara River, and thence up as far as the foot of the rapids.
Here a landing was made party proceeded along the top of the clif above the gorge to the Falls. One
can imagine the breathless wonder with which the Frenchmen gazed upon the great cataract, then in all its pristine
majesty, with the majesty, with the great, deep forest, for
Its setting,-the falls, "the like whereot is not in the whole world !" exclaims Father Hennepin in his journal. Here,
it may be of interest to note Hennepin's account of the no Father
ing made by him, amusingly gultios of perspective and faithful in dotali)-the
earliest picture made of the tumelt

Retracing their steps, the ititle part began to erect a fort at the lor lor the weather had become intemely cold, and it was found necessary to thas
the ground with hot water whe the the paliandes. the first vessel on lake zrie In the meantime, evil fortuno had tallem upon La sali., who, in a socond vesel Niagara. Thirty miles west troct thit point the little ship had been wrecked and practically all of the provisions lost. The ropes and rigsing of the wreck wem however, carried above the Fallo to:0 point at which it was proposed to brild
as
vessel to bo launched on and after marking out on Lako Erifo for two. block houses on the hilgh polint where Fort Niagara now stande, La Ball $^{2}$ , set out on foot for Fort Frontenec will two men. and a dog that draged th baggage on a sled. Nothing but a luy
of parched corn was taken for of parched corn was taken for food,
for two days the little party through the woods and over the tee, han no food at all.
Tonti, in the meantime, was left in
charge of the ship-building, and tho 1 ir-dians gazed with amazement as the lutuo trin
In the spring, fully equipped and risese, and with five small cannons aboard, tive
was launched, and, with much cert and chanting of the Te Deum, wes colled the "Grifilin." As the Indians had at times shown signs of becoming hotile, she was anchored a little way out in uno men men slept in comparative security. Salle returned, and on the 7th of month the "Grimin" loated out upen Lake Erie, her salls the first to thite upon that expanse of broad, blue metr. mehillimackinac.
In three weeks, having passed the joiss chain of waterway via Lakes st. Clirir sion of St. Ignace of Michillimactiones, Where were already the house and chapel of some French tradera, in addition to the cabins and wigwams of the Huron and Ottawa villages. There seems to have been, however, but little mollomen arike salle at this point. All wore alike, jealous of him, and somewhat utro
picious of his designs, and even the pilot of his veesel appears to have been among the disaffected. Indeed, at later day, La Salle blamed this pliot tilh
terly for the loss of the Grimn, wilth sent back 1088 of the Grimn, will cargo of furs, and commissioned to puy beck supplies Salle's creditors an egali. La salle always belleved that sho mou purposely wrecked, and some point seemed to be lent to the suspicion by the report of some Indians that simed, men, ostensibly her crew, had been will while furs, and had probably been killed by
bulldine or fort crevecoevr. building of form In the meantime La Salle, with roan with four canoes. The trip was by no means a pleasant one. There mave
storms, and met cold weather, game scarce, and the food supply ran short, to plenty of nidd been for the indings oll by wolves, sustenance itself might have been a problem. Moreover, there mo been a probiem. Moreover, thero for
reBRRUARY 12, 1014
desertion of some of the men The peace pipe,
keep off enemies. "Because the calumet of peace," says Hennepin, "is the most sarred thing among the savages, I shall obacco pipe, of a red, black or whit The quill, which is commonly two feet and a half long, is made of a pretty
strong reed oi cane, adorned with feath\# strong reed or cane, adorned with feath as they think fit, and according to the they have in their country pilies of the nation who has al the and in all embassies the calumet is carbeing generally persuaded that some they should violate the public faith o the calumet. They fill this pipe with the best tobacco they have, and then concluded any great aftair, and smoke out of the same after them." At last, following rivers and portages, reached, and, on the bank of the river, terted when the French first saw it do all the inhabitants were away on a hunting trip. Hennepin relates that he
counted 460 lodges, with tops arched counted 460 lodges, with tops arched
like the top of a van, and all covered Within a short distance of this town, on the top of a high square rock, La to which, by some strange fatality, he
gave the name of "Crevecour," or 'heartbreak

TERRIBLE JOURNEY
At Fort Creveccur, La Salle waited a
weary time for the tools and supplies Which were to be brought back by the amidst the waters of Lake Huron, that not even the finding of a timber of her was ever reported, first vessel to perish in that great inland sea-then he deter-
mined to make a trip to Fort Frontenac be, to set straight his affairs, and secure expansion in the west.
On the 3 rd-of March. 1680, he set out with lour Frenchmen and a Mohegan leaving the trusted Tonti in charge at mey- of 500 leagues through an untamed cy water, now it was necessary to take the canoes over the slushy, smow, so oft behind altogether. at last they were be to carry sufficient provisions mpossinecessary to live on such game as could be socured along the way, and game was very scarce that season. Worse than dians. Who took them for friends of the account of the blazing they had left on some trees. For days they
were dogged by a war-party and dared not light a fire at nikht to dry their wet
clothes. As a result of the hardship, one of the Frenchuen and the Mohegan fell in with fever and began to spit

Even bad news came to rob the jour ney of its little ray of hope, for on the
way two men were met who told of the earident loss of the Grifin. with its rich At Detrijt. a canoe was made. and north. La Salle. with two others and the comewhere near Point Pelee. Here anout, arriving finally, on Easter Monday, at the cahin of loks on the Nlagara launched.
La Salle alone had the strength to go on. Alone. after his already terrible
Journey, he left this haven of rest. and,
oventua in all. came within sizht of the bastioned Dlished "the most arduous inurney ever made bv a Frenchman in America."
Rut here actin. instead of rest and
peace, Deace. n how awaited him. for the first
news to come to him was that his credit-
ors. on a rumor that he had been
drowned with tho had seized all his property. He Griffin,

## THE FARMER'S ADVOCATE

noreover. of the wreck of a ship from
France. laden with his goods, in the St Lawrence.

It was necessary to begin all over
again. but. the determination of La Salle never flinched. On the 10th of August, he again started
out with twenty-five men and everything
that was needed to outfit the vessel that was being built at Fort Crevecocour, bu The party went up the Humber Rive
from Lake Ontario. crossed to the Hol land River, and thence on via Lake Sim-
coe, Lake Huron, Lake Michigan, the rivers to the southward, to the fort
on the Hlinois.
ords tell us. herds of buffalo were seen ocowsing over the prairies, and upon one
occasion a buffalo-hunt was held sult being that in three days twelve of
these great animals were killed, hese great animals were killed, and the
meat cut into strips to take to Tonti and his meat strips to take to Tonti On arriving at the Indian town in the
vicinity of the fort. however, a scene of terrible omen was presented. The town had been burned, and the graves of the
dead in its cemetery rifled and desecrated; skulls were stuck on the charred crows wheeled away from above fled and mal spot. Evidently the Iroquois had made an inroad, and, finding the houses With sinking heart the brave leader realized on, but his worst fears were still remained on the stocks, but the fort itself had been demolished, and there was

## On again down the Illinois, passing

 again and again, evidences of recentlyside of the river, Iroquois directly oppo site on the other, then a spot was massacre, chiefly of Illinois women andReaching the Mississippi, La Salle tied a letter to Tonti to a tree overhanging ort. . in On again, up the at last there was evidence of being on a piece of wood cut with a saw. Then snow fell continuously for nineteen days, again. "I never suffered so much trom trouble in getting forward, for the mnow vere so light, resting that we coul hardly use snow-shoes. Sometimes it was waist deep; and, as I walked before my men as usual, to eneourage them by though I am rather tall, to lift my legs At last Fort Miami was reached, but there was no word of Tonti, nor did La Salle see aught of him again until the him and those of his men who were left at Michillimackinac.
TONTI'S STORY. dventures through which Tonti had quois, but little can be said here. Shortlong trip to Fort Frontenac, the garrion at Fort Crevecosur had mutinied, had plundered the stores and destroyed the Tonti and the seven men who remained faithful to him, removed to the Indian town. The arrival of 500 painted Irothere, and Tontl tells of a fierce battle, Iromunis as mediator, and of hearing,
while there. their discussion as to what should-be done with him. "There was than liptor un my hair."
He was let go, however, and finally, with his little party, living on acorns the cold, reached Green Bay and friendly Father Hennepin's party, in the meantime, which had been sent to the upper
waters of the Mississippi, had also fallen
waters of the Mississippl, had been cap- Italy, Germany, Holland, Denmark and
their bscape the Sioux, but finally made Next time will be canada.
La Salle's descent of the great river-t hasepe, the Colbert, the Mississippi.

## Hope's Quiet Hour.

## Fellow-workers With God.

 God's tilled land, God's building. ye are ii : 9, R. V. (marginal rendering).
## Life is a splendid adventure, every day

 comes to us fresh and new, laden withopportunity. Whatever the dey bring-surrow, joy, or the day may dead level of commonplace living-we can transform it into power and the beauty of ennobled character, I am speakng ings and kinds of people; whose surround differant, and yet I am sure you widely elike in this. You can begin each day whall the inspiring question: "What shall the great God and I make of myWe are God
We are God's fellow-workers. We are we were babies, expecting Hims, as is us saints without any elfort on to make St. Paul says: "Work out your part. salvation with fear and trembling. For it is God which worketh in you both to The and to do of His good pleasure." vice is powerless without the second halt; and God knows that if Ho were to make us perfect, without effort on our
part, the gift would be valueless pairt, the gift would be valueless. Wo Ahould be machines, not human belings. A child turns to his tetcher for help; but for him, writes all his compositions, and helps over-much in any way, is a serioue hindrance to his education.
It is discouraging to work alone, but ing in us to remember that God is worktilled land," says St. Paul. God Himself is the Husbandman, He ploughs hard soed, and watars it carefully, in good sunshine and strengthening cold. What return are we making for His years
careful husbandry? Xt is possible for careful husbandry? Xt is possible for a
heart to be like the barren fig twee, which heart to be like the barren fig tree, which attention, and yet brought forth no fruit was at last cut down as hopeless When we are working with God, have a right to expect results far beyond ing this every day in earthly matters. They place a message in the hand of one of God's mighty servants, and it is sent aying at lightning speed to its destination. They rall gravitation (another mighty servant of God) to their assist ried with ense thousands of milles along the great rivers. They harness elec tricity to cars and marhines, and great power is at once brought to bear on the work to be done. A ship in distress
eends the "S.o.S." call thrilling through ends the "S.O.S." call thrilling through apace, and help comes rushing trom all many marvellous things by co-operating With the great powers of nature-God's servants-how much greater works can be the Yaster of natura Himself. Pal". Patterson started the "Catch-my very man and why, 1900, feeling tha degraded-/s worth catching. He how that a man lying drunk in a ditch is "a
diamond in the rough, to be lifted, cut, and polished, and made a thing of beaut Christ. joy forever in the crown of Jesus that eventful July day, he speaks of 110 000 members of his Soclety, who had taken the pledge of total abstinence many of them had been drunken and de-
graded for years. How little the founder graded for years. How little the foupder work so mightily through him. The speed, spreading swiftly from Thing into Scotland, England, and Wales. Soon Mr. Patterson recelved letters from Canada, the United States, South Africa,

Sweden. Temperance workers in oll ret. He even wanted to learn his sectional Congress on Alcoholism at The
Hague, in September, 1911. Hague, in September, 1911. He saya: among the troops to whom he ministered on the coast of China, and information about the movement has been sent, by request, to Japan. A missionary in
British East Africa writes to say fie is thinking of starting Catch-my-Pal among being ruine

| by rum |
| :--- |

Many men-working with God and for which cause-have started great mievement have astonished themselves. But quietly by the vast multitude of Chris ing sown without where. Seeds are be observation of the Master of the wopt the -which are bound to yield the worker harvest of good.
You are not only working for God; but business concern the head of the great room and then is lound first in one couragement and guidance to his workpeople; so our Master stands always in remembran really in our midst. The of His hand of His Presence, the touch and courage into the heart of one who loves Him. Long ago, some men had caught nothing. They made one more attempt-under the direction of their aborer. who was dimly visible on the draw the not into their boat, for the multitude of fishes. Working with Him made all the difference, and they dragged His feet.
Working with God, we must learn to ward proof of when we have no outbeautiful thing tis love. Trust is a very when all hope seems to have Abraham trusted the promise concerning There-must elve great joy to Him. Those is as atory told of a great emperor friend. The emperor was ill, and he cian intended to saying that his physician intended to glve him poison in his
modicine. The emperor trostfully took the offered medicine from his friend's him the letter.
yet will I trust in Though He slay me, many a heart is uimitied in bea; and trubt to One who seems to give nothing
but pain and death in return. rorks out holiness, so He produces great harvests, so He builds, polished temples here on the earth. We must, work with
Hiim, trustully and patiently, even when Hiim, trustfully and patiently, even when
Ho does not reveal Hia plans. Otherwise we shall hinder Hilis purposes of had to-pass through-the awful darkness when He felt forsalken by God as well as man. 3 Cay ve be perfected without some less we are mant on Godis errand Trust unthe darkness ? Can we learn patience it all difficulties are cleared out of our way? Can we grow strong in courage if there is nothing terrible to approach fearlessly ? The Master-Worker has gone alone boside us-He has and still walks escort His loved comrades home.

Th eloser me Thy patience; still with Thee In closer, dearer company. strong.
In trust that triumphs over wrong In hope that sends a shining ray In peace that only Thou canst giveWith Thee, O Master, let me live."

Tife is a grand adventure, alorious privilege. Shall we waste it in petty result? What shall it profit if we gain kreat weath and fame in this world, fail to win the "Well done!" of the Maswhich men call "great"" that He want Tha woman, who was honored by God women, lived quietly in a little villase home. She attempted no world-wide reform. but accepted Goud's plan for her
life-the personal paln and shame through life-the personal pain and shame through
which He could work out the salvation
lute selt-surrender. She was ready to
itay aside her own plans and do His will Mary sald. Behold the handmaid of the Ford, be it anto me eccordine to Thy word." In the R. V., the marginal rendo go greater vocation than to she desired God in eny way He might choose, as His stave, expecting no reward. Nu wonder He was able to work mightily through her. No one need tret about tack a God can easily provide opportunity- H e God can assily provide opportunity-H lite that is reelly surrendered to His will.
We spend so much time, money, and nerve-force in pushing our own plans. We worry when the way looks dark be-
tore us. We are conceited over apparent tore us. We are conceited over apparent
succoss, and disheartened over apparent tailure. Does not this prove that our livee are not wholeheertedly placed at our Master's disposal ?
The Psalmist says he keeps his eyes on God, as the eyes of a servant look unto
the hand of his Master. and as the eyee of a thaiden unto the hand of her mistress. In Fastern countries the mistrees
will often give an order by a movement of the hand, without a spoken word, and e servant who is on the watch will hasten to obey. If we are to work
faithfally under our Master, we must keep our eyes on Him. We must remember His presence often during the day, and ask-with full purpose of obedience "Lord, what wilt Thou have me to do?" Our prayers must not be selt - willed
pleading for our own will to be done. plead under the petition for our heart's deaire must elweys be the unshaken foundetion prayer : " Nevertheless, not FYy will, but Thine, be done."
It is easy to say this, but it takes a
Hfetime to learn the lesson of self-surHifetime to learn the lesson of self - sur
render perfectily. Perhaps you think that I I timagine myself to have learned it-be cause I proach "Trust" to you so often.
Indeed, no I Day after day I stumble over the big words in Godis primer-Hi first book. But I am quite sure the
lesson is worth learning, and that the lesson is worth learning, and that the
Haster's patience will not fail; therefore I pray and atruggle for trust, and the capacity for ready obedience. He can do His work through trained workers, and we cannot get our training easily. Let us accept the daily lessons thankfully,
rejoicing when the Master is evidently rejoicing when the Master is evidently eating trouble over our progress. It is us not forget to thank Him for the hard and valuable lessons set us from time to Utme. Let us work under His direction,
expecting lasting success. His is the expecting lasting success. His is the

```
-Great things attempt for Him, great
things expect,
    sublime.
        DORA FARNCOMB.
```


## TheBeaverCircle

Our Senior Beavers. (For en pupile from seator Thure to

## A New Competition.

 Dear Beavers,-We haven't had a com-petition for a long time, have we? How would you like to write on the following:
All the girls write about "Boys."
All the boys write about "Girls." The letters to be at this office later than March first. Now, Beavers, do your very best. The
letters need not be very long, but they should be bright and interesting. . . By the way, we have not forgotten that we Roll letters in the Garden Competition Next time perhaps there will be room.

## Ski-ing. <br> Have any of the Beavers learned to

 ski? How do you think you would like to take a big jump, as the man in thepicture is doing? You would be ate of coming down in such a way as to the people in Switzerland, Sweden, and
Norway, are yery Norway, are very expert on skis, and
after suf $h$ leaps in the alr, can keep
their balance and glide ofl down the Skitaing sides like birds.
Skiing is becoming very popular in many parts of the world, especially where there are hills. The other day we saw Wieture of a merry skijing party in any fine winter day in many parts of the United States and Canada. Indeed, it is said that should there chance to be an international contest, Canada will stand a very good chance of coming of with honors. good, healthful will learn to ski; it is good, healthful exercise. But if
don't try high jumping too soon.


Ski-Jumping in the Tyrol.
Captain Ben's Valentine.
"Secrets, secrets again!" said Mother Harper, as she saw the children whispering together ini groups.
"I thought there would be no more secrets for another year, now that Christmas is past, and old Santa Claus gone birthday is coming? And what are these secrets all about ?"
"Oh, mamma ! said " sible that ma ! saidj Mabel, "is it posValle that you've lorgotten that St. Valentine's Day comes next week ?"I
"Why, bless your heart, child ! I had lorgotten all about the chid! I hat Whom are you going to send Valentine "o this year?" May, end all the rest of our crowd, and maybe some new ones. We have not decidec yet," said Mabel, as she turned which she felt sure had crept up into She 'wondered what her mamma would say if she knew of the valentine she had made for the boys to send old Ben Leamont, the old sea captain, who lived a house they passed on their way to school every day.
She was startled out of her hearing mamma say, "Well, I'll leave yo o choose your valentines yourselves this ear, trusting that my children will mak Mabel tried to, ease her conscience by saying to herself that she was not sendIng the valentine to Old Ben herself. But still, if she had not made it for the was the artist of the have sent it, as she How she wished she had not done it now. She felt sure the boys would not give her the sketches back, they had been so delighted with them, and had laughed at the grotesque-looking pictures so heartily.
Captain Ben was the special ogre of Captain Ben was the special ogre of
almost every child in the village. He fist at them whenever he met them, and if they dared stop but a few minutes to peep at the beautiful flowers in his old-
fashioned garden through the bars of his gate, he'd set his pet dog. Pincher, on
them, a tawny, yellow creature, with wicked. snappy-looking eyes, who seemed
as though he understood that war was


That guarantee means that I believe Cream of the West to be the lour on the market. If your bread doeng't beat an
 momey on retura of the unused portion of the bago

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witt have success with it. That's why we fuarantee it. We are .

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|  |  |
|  |  |
| FEEDS |  |
| Bullrush" Bra |  |
| "Bullrush" Middlin |  |
| Extra White Middlings |  |
| "Towrr" Feed Flour ........................... 155 |  |
| Whole Manitoba Oats . . . . . . . . . . . . . . . . . . . . . . . . . 114.14 |  |
|  |  |
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| Whole Corn ................... . . . . . . . . . . . . . . . . . . . 1 $_{15}^{1 / 45}$ |  |
| Feed Cornmeal............................... 1 . 50 |  |
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| Manitoba Feed Barley . . . . . . . . . . . . . . . . . . . . . . 14. |  |
| Barley Meal. . . . . . . |  |
| Cake M |  |

Special prices on Car-lots. Correspondence with Farmers' Clubs solicited.
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In summer when naturo expootar them. Mre Hor poake mpar bot aere, morm
Bo ohe ondad an Important part of
the food that makes eger the food thaz makes ergan

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of agents or any person else, who might like to get him into a tight place. It is just what farmers of Canada have been looking for, for some time. It gives the most important
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of each of the Provinces. The information is of each of the Provinces. The information is
given in simple, every day language, so that farmers will be able to do a great deal of their own business strictly in
accordance with the law, without having to pay each time for a little bit accordance with the law, without having to pay each time for a
of ordinary advice.
It aiso gives simple

 regard to Line Fences; the use and formo of Powers of Attorneys, the Law in regard to Trusta
and Trustees, and in fact everything else that a farmer would require to kovem
The sent, postage

declared between his master and the Pincher lived beautifully up to his name whenever he got a chance, by pinching the tails of their pet cats as they raced up trees to escape him, and by snarling and barking at their own heels, with all
sorts of deep-throaty growls and dark sorts of deep - throaty growls and daat
threatenings to do dreadful The children do dreadful things. The children had got into the way of
retaliating upon Captain Ben, whenever they got a chance, by sending him anonymous parcels containing all sorts of old rubbish; while occasionally some of the most daring would risk the chance of being caught by Pincher, and steal in chase his themselves to apples, or even They did iot meen to
considered it not neean to be wicked, but his unkindness and grufness to them. He started it," they always stoutly maintained when questioned about the
matime
least now they had the best of him; a had gone around the vilage as the new was dead. In fact, Captain Pache old Joe Harper so himselt, saying in his grufest manner as the boy passed by
to school, "Pincher is dead, he"ll not bother you no moah," with such 'a fiert bother you no moah," with such a fierce
look, "just for all the world as though we had killed him," said Joe, when re. peating the old man's speech to his chums. "They had not killed him; oh, my, no although they had threatened to do a an auto, late in the autumn, and never from it.
them a valentine in the form of make ooklet, each leat having on it a ludi crous and ugly sketch of Pincher and hie naster, from the time when, the dog ha the burial scene, where Captain Pen page heartily shedding tears over the grave. On the grave-atone they had placed the ollowing epitaph
"Her lies the tawny, yellow brute The fithing mate for his ferce galoot, Whom we sincerely hate more and more
each day."
The children did not realize how much the old man loved his dog, or they, woul heartless. thoing anything so
Later in the day as Mabel was showing thie valentines she had made all read to send to her friends to Mildred Jones, just lovely! I just wish I could draw ike you; but then I'd have no money to get the materials with even if I could, so I might as well cry for the moon at once and be done
with a little laugh
with a little laugh. is I had one to send, would be old cap tain Ben," she said, looking out of the vindow across the filds to where the smoke from the little cottage could be aeen making its way up into the clear Forgetting her promise to the boys to soing to get one
"Is he l-oh, let me see it. I hope it' all roses, and violets, and blue ribbons, and gold lace, like the one ITre been ad miring in Simpson's window every day I
passed," said Mildred, her eyes dancing in pleased expectancy.
Mabel turned rosy-red as she sald "Mildred Jones, are you crazy? Roses
and violets and ribbons for Old Ben ! I and violets and ribbons for Old Ben I I
guess not. Why, he's perfectly horrid to guess not. Why, he's perfectly horrid to
us all the time; as horrid as"-here Mabel stopped as though searching her brain for a fitting comparison.
"As horrid as the Jones crowd," said Mildred, with a gleam of mischiof in her eyes. The Harpers, Jones crowd,
Kemps and Scotts, were inseparable Kemps and scotts, were inseparable Christmas-tree, and the remodelled of the "Oh, no, indeed," said Mabel haotily, "that is, I mean you are not horrid now and never would have been, had we been
inclined to be friendly with you all inclined to be friendly with you all at
"Perhaps old Ben's the same," said Mildred. "If we'd do him a kindness, so grumpy. But come, show me the valentine anyway. What is it like ?"
"I can't show it to you, the boys have
it; but I'll have to confess, it'h not at all but like the kive to confess, you would have sent him-just the opposite.
"Well, then, we must not let the boys send it," said Mildred firmly.
lelt a sort of piptain Ben, I've always lelt a sort of pity for him. You see, I
know how it feels to be lonely, and how know how it feels to be lonely, and how
cross and horrid it makes one to feel cross and horrid it makes one to teel us." Here Mildred's voice trembled a little, her soneliness was of such recent date that she had not forgotten it yet. "You poor darling," said Mabel warm"No; not since you and Lillie and May, and all your other chums have taken me up and have been so kind to me; even our housekeeper seems to be finding out that we have hearts, and are human. But still all these little things I have to help Captain Ben more and long to ehould like to send him something bright and pretty, just to let him know that someone cares.
Mabel looked
Mabel looked at her friend's flushed face and tender eyes in surprise, as she
said, "And, to think that we ever called sou heartless and mean. Whỳ, you're a better girl than any of us. We've all been rejoicing over the thought that he was going to get a valentine that would we'll him more unhappy. But come, get them to help us persuade the boys to give up the idea of sending it."

In the meantime, a similar consultation was being held amongst the boys. They Jones, expecting him to admire it as thuch as they had done themselves. Juidge thell surprise when he handed it touch of it burnt his fingers, his tace reddening as he said:
"Don't you thiok it a bit rough on the old fellow, lads ?"
to pay him out for all his seowing it threats, and the times Pincher has "I thought," said Len slowly, "that
you lads diti not betleve in kicking a you lads did not betteve in kicking a
fellow when he wes down ". fellow when he was down."
"Neilther we do,-biut I don't see that old Ben's down. He's lost Pincher, but Old Ben's down. He's lost Pincher, but
he's too hard-hearted to care about anything," said Joe Harper.
was all he had in this world Pincher and although he looked og.y to us, I've no doubt the old fellow thought he was cauise I passed there last night after dark, going to the store, and Captain
Ben was outside digying a grave for Ben was outside digging a grave for
Pincher. Ho did not hear me, but I could hear him sobbing to himself, and saying, 'Poor old Pinchers, poor old dog, now. It and the old man's all alone had to rum all the way to the store to keep the sound of that lonely old voice
out of my ears." out of my ears:".
"You see, lads, I know what. it feels like to be down and out, and I would
not send a valentine like that to Old Ben for a pocketful of gola."
The boys looked at each other a littie shamofecedly. This, from a so lately despised Jones.
"Say, fellows" said Johnnie Kemp, Iriends with the old chap, let's not be him anything more to be mad at us for": "Joh
"John's about right," said. Bob Scott. "we've done some mean things, too;
things we neeh not. have done. Let's make a ship-shape resolution, as Captain Ben would seay. For ingtance, Jones here, being the starter of the thing, will thing ull this," seribbling with a pencil:
emnly, the undersigned, do hereby solCapt. Benjamin Leamont, in all such ways as seanding him ugly valontines, stealing his Duchess apples (which, by the way, only makes us want more and
more all the time), chasin more all the time), chasin" his swine, and old tufl-neck, his pet gander. Signe
1914.

[^0]Difk Kemp. Alan Harper


[^1]

The Bull Is Strong--But "Ideal" Fence is Stronger
隹






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[^2]
## over, as as citement.

 shook his fist aterer their retreat ing forms,
from the cobwebyy window, where, in from the cobwebly window, where, i
spite of himself, he had been drawn t watch them. the place as the last sound of their gay
laughter died away, and the old man laughter died away, and the old man
went back to his chimney corner, stirred up the fire, relighted his old clay pipe,
and sat down to smoke. His head sank lower and lower as the fire made him
drowsy; soon he had drowsy; soon he had forgotten all his
troubles in a sound sleep, from which he was awakened by a noise which sounded like his pigs squealing.
As hastily as he could, tne old man rose to his feet, his pipe clattering to
the floor unnoticed as he hurried to the Upening it, he passed outside muttering, "'Them young villains ! I'll shoot
some $0^{\prime}$ them yet if they don't leave my pigs alone."
Arriving at the pen, he was surprised to tind all stinl, and the pigs asleep in their corner, as though they had not been awake for a week.
"Curious, curious," "Curious, curious," muttered the old
man, "I could ha' sworn by the fo'castle and yardarms, that I heered the pigs Coming outside, he looked all around. but saw nothing. If he had looked up in the fir tree outside the pen-door, he in its branches, each with a rubber squeals which had wakened him up and drawn him away from his house, leaving to leave the basket on his doorstep, and run to cover again where they could watch proceedings.
As Captain Ben reached the house, still ket sitting there. With an angry bnort he reached out to kick it into the snow. "Some more o' their 'tarnel tricks," he
said, then drew back suddenly as a new thought entered his mind.
"Haul in yer sea-legs, Ben Leamont," them bomb things the papers are so choke-full of these days. I'll just stand back and watch it a bit for fear it fraz-
zels up and blows a real sou'wester." zels up and blows a real sou wester. a puppy in trouble, issued from the basket. With bulging eyes the old man ran
to it, lifted the lid, and saw a little yellow puppy making vain attempts to ing back with a yelp of fear each time As he tenderly lifted it from its nest, smoothing its fur with trembling hands, the old man noticed that it wore a collar, and attached to its collar was a
white card with writing on it. Quickly he carried it into the house, put on his glasses, and read, "A valentine, with love, from the children." His glasses grew misty, so that he had to take them
off and wipe them before he could read the name "Pincher" on its collar. Needless to say, the ofd man was not lonely that night, and the next morning the children found him. waiting to thank them, the tears running down his cheeks,
as he said gruffy, "Thank ye, kindly, children, for yer kindness to poor Old
Ben, and I'll nivir think hard o' ye agin. Come and see how the puppy grows, won't ye, sometimes
They all promised, with a chokey feel-
ing in their throats, and I should not wonder if we found them all together on
Arbor Day, planting a tree on old Picher's grave.
$\qquad$
A little maid, a pretty maid, Came singing to my heart,
That long in loneliness had s
From love and maids apart.
clasped her close ; grown newly wis
I knew that she was mine;
The light of springtime in her eyes,
The light of springtime in her eyes,
My life's fair Valentine.

Senior Beavers' Letter Box.
 has taken "The Farmer's Advocate" or
about twenty-seven years. We live on a 140-acre farm, situated on the north
shore of P. E. Island, a mile and a halt from the Gulf of St. Lawrence, in which Oysters and clams are very plands. Oysters and clams are very plentiful.
New oyster-beds are being planted, and will be very profitable in a fow This is also the home of the little black
fox, and every few miles large ranches are to be seen. We have to walk about we are driven theol in summer. In winter For pets, I bave a cat and two pair letter is getting must close now, as my CECLL M. SIMPSON. Bay View, P. E. Island.
P. S. -1 wish some of the Beaver Circle boys would correspond with me.

Dear Puck and Beavers,-I am a very interested reader of your Circle. I like such as "Woll," ""Tip Lewis," "Mace, Dog's Story," "Brock," "Swiss Family Robinson," and school and camp stories I now think I will tell you what I do on the farm. In the spring I have no mammer holidays go hard work. First comes haying the comes the barley and oats. When the grain is drawn in the barn we thresh it
After this, the corn to , thuth is to be picked and ing of the corn. There is usually number of mice and rats, which are hard to catch. Then comes school again When it freezes up, we go skating and playing hockey. At night, when I com will close now, wishing the Beaver Circle a Happy New Year,

JOHN A. HAIR (age 11, Sr. III). .
Dear Puck and Beavers, - I wrote once before to your charming Circle, but did er's Advocate," so I thought I would write again. I go to school every school-day. Our teacher, Miss Morrison, has lek us, and I am going to tell you about the concert we had at our school on the last afternoon of school before Christmas nolidays.
About the last of November our teacher the last day of school. Every boy and girl was pleased when they heard this, and were anxious to get something to recite or sing. "My friend and $\mathbf{I}$ sang a
song entitled, "The Voluntear There were many recitations, songs and dialogues, to make up the programme. After the concert was over, our teacher gave us some tafly. It had been boiled Well, I guess I had better not more, hoping that my letter escapes that horrible waste-paper basket. MILDRED C. SCOTT. (Age 12, Jr. IV Class.)
Varney, Ont., R. R. No. 1.
P. S.-Will some of the Beavers about my age, please write to me?

Dear Puck and Beavers,-I think describe my surroundings. I live in a tone house on a farm of one hundred front of the house, and locust trees all out the lane leading to the road. We all our farm "Locust Avenue." For pets, I have a bantam rooster, a
cat, and a dog. Their names are Banty, Tommy, and Collie. How many of the Beavers can skate? I am just learning, and think it is fun. Curiosity Shop,", "Elsie Dinsmore," Barbara Worth,"' "The Shepherd of the Hills," and several of L. T. Meade's my letter is getting long. Wood-bye. Maitland, Ont., (Age 11, Jr. IV Fook.)


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strain ho hite
Farm, Galt. Onte Leghorns. Glenhurst Poultuy

| Dear Puck and Beavers.-As I did not |
| :---: |
| see my letter in |

cate," but saw my name in the Honor
Roll, I thought I would write again and
see if it would be in print. The name Ron, I thought I would write again and
see if it would be in print. The name
of our best horse is "Darkey." He is twenty-five years old, and is as lively as
a seven-year-old. Yesterday morning my sister ollie, and my brother Frederick, aunt, uncle, and cousins. Santa Claus used me pretty well this Christmas. He
generally does. (VA JOY LOBB (age 12, Sr. IV).
P. S.-Will you please put my name in the paper as "Joy"?
[It is against the rules to use penDear Puck and Beavers,-After having been a silent reader of your charming
Circle for five years, I will now write my lest letter. I wrote one letter before.
It was my introduction to your Circle, and this is my farewell. I am 15 going after the 19th of February.
When I last wrote we lived at Gran ton. Now we live at Kirkton. I asked
ior correspondents last time. I got two, that is almost eight months ago, and Sadie Bageint gone, and Eflie Gron? We ever hear of 且tie now. Perhaps she
busy. I am a great bookworm. Some of my
tavorite books are "Black Beauty,
Black Rock." "Beula"." "In ", Black Rock," "Beulah." "Inez," "St.
Elmo," "A World of Girls," and "A
Bevy of Girls." How many Beavers have read the Henty books?
read two. They are, "By Right
quest," and "Under quest," and "Under Drake's Flag."
like books with lots of adventur them. The Henty books have a great deal of adventure.
Well, I think I have taken up all the
room that the precious Circle can spare.
Farewell, Puck and Beavers Farewell, Puck and Beavers. Hoping to
see this in print

Kirkton, Ont., R. R. No. DENHAM
P. S.-Here is a riddle for Beavers to
answer. "How many peas in a pint?", We have decided not to set any age
limit for the Senior Beavers, Iva, so your farewell need not be a real farewell

Our Junior Beavers


## The Cosy Dark.

 And sugyles ent tomee around
Close to mears it whispers thoughts
 The nicest kind of Dreams.
The Darkness gives my tired eyes Another kind of sight,
So 1 can see the tenderness

$\qquad$
$\qquad$

Junior Beaver's Letter Box.
 4.an den. In the spring I planted seeds in
quite large spot. They came up, only my corn and parsnips did not grow very well. One day when my corn was grow ing. the geese ate all the ears off.
am getting ten cents for my turnips, five for my parsnips. My cucumber vines had cucumbers on before my mother's. My carrots, beets and suntlowers, were 1 have read quite a few books thin
year ing Angel,". "The Dangerest Guest." ". Th tite in Field and Garden."
Our school-teacher's name is Miss Edmu
Frost.

## Thomasburg, Ont

This is a
girl, Grace
Dear Puck and Beavers, - 1 thought orst letter. My father. This is my Farmer's Advocate" for as long as "The remember. Just as soon as "'The Farmer's Advocate" comes I want to read the letters. I have a litile sister only five
months old. Her name is Martha Pearl: we call her Pearl. She also likes to see "The Advocate." I go to school every Class. We are going to have a Christ mas entertainment in our Sunday-school good-bye.

## Dear Puck.-As I did not see my othir

 another. I am going to tell you a story ebout a dog which 1 think the Reave One timery a mum interested in. his master say he was going to kill him.
The next day the dog told a woll that
was a friend away the man's little child. The carry would run after him and would take is for saving his child.
Wishing Jess. $\quad$ age anderson.
(Age Class Li
Dear Puck and Beavers,-My father has
number of years, and he likes it fine. I I
have a dog. his name is Sport harness for him. One day I hitched him fell off my sled and he ran away and I One day he pulled me down the hill other day he pulled me so fast past our against it. I I have two sisters head names are Grace and Anna Mae. We old teacher's name was Miss McDonald. She went away at Christmas. I guess success. RAE TUSSLER.

Dear Puck and Beavers, This first letter to your charming Circle. My cate" for over two years, and he would letters very much, but never hading the to write before. I have two pets, a dog and a colt. mer; his name is Sport. My colt's is Polly. She is very quiet. She will Well, my letter is getting long. I would write to me. GREETA BALI age to

Evansville, Ont., Manitoulin Island.
Honor Roll.

## LEARN DRESSMAKNC BY MAll



Hack Saw By Parcel Post


 The Halliday Co., Lid... Hamilton, Cinald.
Formerly Stanley Mills \& Co.. Estab. 1888.

## Balance The Ration With "Good Lucrs" COTYTON SEED ION SEED MEAL Price 534.50 per ton !. O. b. Toronto. CRAMPSEY a KElLy Ourt Road. Hig \& KELLLY, Ontorto <br> THIS WASHER MUST PAY FOR ITSELF.

## A MAN rrid to sell me a horso one Hown

 elther. told him I wanted to
try the horse for a mon
He tel

 Tasat arfard the that



 And Y sald to mynall 1 -







 ever inventeu cand do thativithout wearng wo
 wiy ill orthe mochibes, nor break buttons, tho

 With the hose onil wort wall tor peopil to Let me send you " "IDOD Gravily" Wather on

 Woanit tut prove that the "1ugo Gravtly" And you can pay to out of that It Eves thit




 washes ciothes in six minute
daress me personally
Madeline Taylor.
Bertan
Carl Wialerer.
Cart

## to象 <br> The Ingle Nook. <br> 

## 


Plum Pudding.
thing like $\$ 300$ a month. My ex-
penses have heen about $\$ 3$ a day penses have heen about $\$ 3$ a day
including everything and all my customers are satiofied.
SAMUEL MUSGRAVE
BUCREYE
TRACTION DITCHER
A perfoct trench at one out
The Buckeye is built in a number of sizes to meet conditions in various parts of the machine best adapted to your territory.
No other farm machinery pays There is steady demand for Buckeye Ditches and Buckeye owners are always busy
Write today for the Buckeye Boot of Facts T See what other men are doing and what
The Buckeye Traction Ditcher Company Findlay, Ohio
Berlece alos of Beckege Open Dichore and
WANT AND FOR SALE
Advertisements will be inserted under this head.
tha, wuch as Farm Properties, Help and Situationo
Wanted and Pet Stock Wanted and Pet Stock
 two words. Names and addresses are counted
Canh oust always acompany he order. No ad.
vertisement inserted for less than 50 cents. $\frac{\text { vertisement inserted for less than } 50 \text { cents. }}{\mathrm{F}^{O R} \text { SALE }}$ No. H , and White grown seed corn, Wisconsin Fo. . and White Cap fedow Dent. Guar-
anteed to grow or money refunded. S1.25 per bus.
H. J. Hyland. R. R. No. 2. South Woodslee.




 land with running water, never failing supply
spring well water at buildings. Extra harke frame
dwelling, good frame horse-cattle stable, hoo pen
poultry poultry house. rep in shop with tools. Would also
sell seed. feed.
fit
fit houses, implementents. theshing outAny hisehold effects. or any part to suit purchaser
Anplyd of stock taken in carload lots on deal
And for further particulars to Wm Nichols, Box
128 , Qu'Appelle Snct I28, Qu'Appelle. Sask.
$\begin{gathered}\text { IAVE } \\ \text { good dorke number of housekeepers and } \\ \text { to Canada. Inestics requiring advanced passage }\end{gathered}$
I personally


| English Plum Pudding :-1 it. finely chopped suet: $1 \mathrm{1b}$. stoned and halved raisins : 1 th. currants; 1 tb . sultanas ; 1 m . chopped mixed peel; 辛 th . flour; \& ib . bread crumbs: 1 teaspoon mixed spices; 1 lt . brown sugar; 8 eggs well beaten; 1 wineglass brandy or hard cider (if liked). Flour the fruit before using. Mix all together, adding the egg and brandy last. Stir well, over |
| :---: |

egg and brandy last. Stir well, over
and over, then put in moulds or cloths
and boill 10 hours if in one pudding, 7
make one large or several small pud-
dings.

| tana raisins rolled in flour; it. chopped suet; it m . each stale bread crumbs and flour; \& lb . each of sliced citron, forange and lemon peel; 1 grated nutmeg; 1 teaspoon each of salt and ginger ; teaspoon each of allspice and cloves ; f cup each of chopped filberts, walnuts and almonds; 8 well beaten eggs ; 1 wineglass brandy or strong coffec. Boil in a floured bag for six hours. <br> Number Three :-2 quarts bread crumbs soaked in 2 quarts milk; 6 beaten eggs; 2 cups mclasses: 1 cup chopped suet; 2 mb . raisins: $\mathbf{1} \mathrm{m}$. currants; 1 table spoon vinegar: 2 tablespoons salt; 1 teaspoon cinnamon; $\frac{1}{1}$ nutmeg, grated; $\frac{1}{2}$ teaspoon ground cloves; $\frac{1}{\frac{1}{2}}$ teaspoon ginger. Put in a buttered mould, cover and bake from 4 to 6 hours with a very slow fire. Before serving steam. <br> Carrot Pudding :-('This is preferred by many to plum pudding). 1 cup sugar: 1 cup chopped suet; 1 cup raisins; 1 cup grated raw carrots or beets; 1 cup grated potatoes : 1 teaspoon soda; pinch salt; $1 \frac{1}{2}$ cups flour. Steam or boil 3 hours. |
| :---: | cookies which someone might like. for

and one-half cups sugar, 3 Ong of pork fryings, 1 teaspoon of soda.
enough boiling water to enough boiling water to dis
spoon of grated nutmeg, flour. Someone kindly gave me a bunch
cigarette tags this are not enough to make a cushion sewing together, so 1 've decided to
stitch them stitch them on a back-ground of dark satin. I don't know of a pretty way
to arrange them. Would it be too mach trouble. Junia, for you to publish
an illustration of a cushion made thus ? Thanking you to see it very much. you and all the Nookers much joy for

## Oxford Co.. Ont. FLUFry.

 I certainly do think that every girlshould learn, not only to cook, but to should learn, not only to cook, but to
be an artist in cookery. The healch, of the nation depends igreatly on its food.
and the work of the nation. upon ita
health. See and the work of the nation. upon its
health. See ? So momentous events may hang upon the work of the cook
in the kitchen. may they not? Try using sweet cream for your boiled stirring until it "hairs" from a fork: then beat into the stifly-beaten white of
an egg, and keep on beating until the proper consistency is reached. Here are some definite recipes

Cookery for St. Valentine's Day.
or any other cake in a plain sheet. Cut
into small hearts with a heart-shaped
cutter, then split and insert a layer of
chopped preserved ginger and figs in
equal proportions. Finally ice the hearts
sandwiches may be made in the same
way by using a rich biscuit dough as a

## salad.




 Cochranets Warials, ladies' overalls, pinafore muslins
chester, England.

nationalit
wages by
London
 capable of nanaving a farm woman a good cook an
ng age and experient, Apply stat
ondon, Ont


Here is an Unsolicited Letter From One of Canada's Foremost Authorities

Macdonald Collese, SL. Anne De Believue, P.Q
The Spramotor Ca, London, Ont.
Dear Sirs:
We used one of your Model C power sprayers in on ines of hose we had no difficulty in maintaining a tridif of the time with thee pump ruming only about throw in anoch spray asa man coryd handle efficiently. We Cond
I might say that this power sprayer was one of the first tewest now bieig taken in spraying, there, should be a a large


Yours very truly
T. G. BUNTING
 Diseases, without charge. This put you under noobligation whatever, and secures you useful, reliable information that can be got no other way.

In addition, we will send you full details of a Spramotor that will exactly fit your needs.

You should at least know the facts, so write us, to-day.

## Spramotor Ltd.

1732 King Street

## Surplus Sale of JERSEY CATTLLE AÑD HORSES

 Friday, Feb. 20th, '14

Sale to commence $1.30 \mathrm{p} . \mathrm{m}$
Owing to part of Janefield Farm being sold recent-
ly it has become neecesary to reduce the stock of
Jerseys which have been kept especially for cream ly, it has become necessary to reduce the stock of
Jerseyswhich have been kept especially for cream
producing purposes. The cows have all milking records, nothing hav-
ing been kept except what would produce and nothing more need be added than that the
fact that from the sale of cream of twelve cows
830 .00 per week thas ben ract that from the sale of crea.
$\$ 30.00$ per week has been made. The cows are all in caff to Brampton Merger and
the heifers are good foundation stock. All the cattle are from the best strains and have
been selected from such stocks as J. B. Cowieson
\& Sons \& Sons. Queensville, Mr. Clark. Norval and Mr.
Hy. GIendinning, Manili. This is a good chance
to get a good cow and the record of each cow will
be given.
 per year, 2 two-year-old heifers due in April 8 . one-
yearo-1d heiferss 7 horses, 8 pigs. WM. J. Beaty, Proprietor, Guelph, Ont Chas. M. CRawley, Auctioneer, R. R. No.

## BIIY BRICE'S SEEDS

generations, and some for three, buy Bruce's seeds, beciuse, ever since customers for two established by us Sixty-four years ago, they found they could rely on them in every way To these men quality and germination the
depends on their crops.
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 Write for our rin-page illustrated and descriptive catalogue of Vegetnble, Farm and
Flower Seeds, Plants, Bulbs, Poultry Supplies and Garden It will be mailed $F R E E$ to all applicants. $W R I T E$ Garden Tools and Implements, et

## JohnA Bruce \&Co mimitid <br> SEED MBRCHANTS HAMMIITON \% ONHARIO

The Farmer's Advocate and Home Magazine Published Once a Week. $\$ 1.50$ per Year in Advance.

## Spramotors

 Bought 20 Years Ago Still Do Good Work!Twenty years ago takes us back to somewhere round 1894, yet we are constantly receiving letters from men who bought Spramotors as long ago as that, and are still able to write us that their machines are in active and efficient use to-day

What does this mean to you men who are thinking of getting a spraying outfit? Simply this: That you can't buy a better or more durable machine than the Spramotor!

The Spramotor of twenty years ago was not the advanced machine of to-day, yet the basic principles vere right, and are proven so by the fact that men are getting good results from our earlier models right now. With the added experience and the various improvements we have been able to effect in all that time, rest assured that in the present Spramotor you get the utmost in spraying efficiency, durability, convenience and economy.

We want you to know that there is, in the Spramotor line, machine that will fill your needs to a nicety. If not, we will make one! We have a first-class hand Spramotor seling as farms. Then we have machines mounted on hand carts, others n horse carts, still others drawn by one or two horses, in which the horse does all the work of pumping, and finally we build what is acknowledged to be the last work in spraying machines improvement and full accessories.

Write us particulars of what your spraying needs are, and we will forward you by return mail a copy of our valuableillustrated treatiseonCrop

LONDON, CAN


Chocolate Fudge:-2 cupa sugar, squaree ohocolate. it cup milk, ${ }^{1}$ table sugar, milk and chocolate unth tho chocolate to melted, then add the buater and cook without stirring to "soft ball" In wator, then remove from the fire. I am sorry to may that we have no lilustration for coub medo pattern on paper untl drawiag on that sulte you. One can do wond ou that way.

ABOUT HELIEN KELLER Dear Junia, -1 have Just been reaning an eceount of the Hife of Helen Faller in "The Farmer's Advocato" and was vory much interoated in it. I have a detemer attending Normal School at Ottawa who wait to hear her, ana the Whas impresuad that she went home could not but notice the similarity at thought when I read yours.
I would be very much pleased to these verses appoar in the Advecato. We have taken this paper for upwarde of twenty years. and look forward each weok for ite coming. The "Home Do partment" if better than mont of their Wishing you ev
work. sincerely yours.
MRs. C. D.
helen keller.
Hoten Keller, Helen Kaller.
You have put us alt to shame, And the silence up to fame We, with all our boasted sens Fall, fatnt-hearted by the wayk We, who never knew the darknee And the silence of the way Through thy long and lonely ehildhoed Never shone a ray of light Broke the atillness of the night. Closed away from fellow-ersatures. Fancy what a prison, such Till thou foundst the key to freedom In the blessed sense of touch.

What a miracie had happeneld brins What a joy this thing would bring 1 Could be borne on fleeting wing. Now the prison doors were open, nd our noble Helen Keller and our noble Helen Keller
Came in contact with the

Struggling bravely, slowly upward, Groping through thy starless night With thy eeger. searching fingera For along the slender norve-cor Leading to the darkened mind Flowed the wisdom of the ages Binding thee unto mankind.
Now thou comest with a message To thy brethren in the light Cheering othars in the fight, Teaching us to count our blessingso Telling each one ${ }^{\circ} \mathrm{er}$ and $\mathrm{o}^{\prime}$ er
These, the mercies of our Maker

Helen Keller: Helen Keller
You have put us all to shame, And the darkness up to fame. We complain and halt and murmur You, though bound by bands of darlYou hess, willed and worked and won. Rideau View. BEATRICE DUNLOP.
to prevent sweaters frol STRETCHING.
To prevent sweaters from stretching arross the shoulders stitch a straight piece of cotton cloth, the same color if possible, from the neck to the armhote n the wrong side. The strip shoud

Who Sent for These Patterns?

We have received an order for six petname nor post-office appears on the let On. On receipt of this information pat

FEBRUARY 12, 2924
THE FAFIMER'S ADVOCATE.

Little Economies and Using Up Left Overs.
(Continued trom late woek.
An economiceal suggestion to that dried
truits. which thembeives contain a cor truits. which thembeives contatin a corr tain amount of sugar, require very Hetlie
extra sukar, provided they are cooked extra sukar, provided they are cooked
long enough. Wash them well and quickly, soak over night, then cook very slowly in ithe same water.
To Clarity Fat.-Fat from bacon, sausages, etc., can be used for frying pota-
(coes (do not uso too much), but all other Gcioes (do not uso too much), but all other davored may bo clecribed and used for "doep fat" for cooking doughnute, French potatoes., croquettes, and \&isters, or it may even be used for shortening. To clarify, put the scrapa, cooked and uncooked, through the meat-grinder, then guntle heat until all the sodiment falla to the bottom, and not a bubble to to be seen. Strain or and cool. .ir
may be ueed over and over. is it bemay be used over and over. If it becomes dark, put it in a stewpan with
several quarts of water and heat to boiling point, then pour into a large pan ing point, then
and add soveral quarts cold water. poot
in a cold ploce and when the ent forma in a cold place, and when the fat forma
in a cake on top, take it off and put it in a cake on top, take it of and put it
linto a pan. Heat gently, and cook until it ceases to bubbice, then strain and cool. While a bubble appears there is water in (This is Merie Parlos's method.) Another method to to boil the fat in water. Stale Cake Puding.-Crumble up the stale cake and cookles. In the bottom of a baking-dish put a thick layer of erumbs, elternating until the dish is full. Sprinkle with sugar, dust with nutmeg, dot with butter, and bake.
White Bread Brewis.-Heat a pint of milk in a double boiter. Stir into it enough bits of stale bread to absorb all
the milk.
Season with a little butter and salt. This should be a light, dry porridge, and children like it , espectally it served dotted with bits of jelly or ${ }_{\text {jam. }}$ jilik
Milk Toast.-Dry six slices of stale
breid tin the oven, then bread in the oven, then toast it to a
golden brown.
Heat two cups milk in the double boiler, add two tablespoons butter, and two tablespoons cornstarch blended with a little milk, Lay the toast on a hot platter, pour the sauce over, and serve very hot. Nice for tea.
Croquettes. - Nearly meat or fish, as well as some vegetables and cereals, may be made into croquettes. The meat should be minced in the meat-grinder. It may then be mixed with thick, cold. brown kravy, or white sauce, seasoned well with whatever is
lited, salt, pepper. onion fuice, nutmeg liked, eait, pepper. onion Juica, nutmeg,
chopped parsley, etc. Finally, make the croquettes, roll in sitted bread crumbs. dip in beaten egg. then in crumbs again, and thally try in deep fat.
potato Be added. When beking croonvetce., may member tnree things. (1) Have the fat amoking hot, else the croquettes will reaki open. (2) Fry only two or three large, elime they will have make them too tnside

## The Scrap Bag

 One of the chief causes of trouble with to three causes. planting in tro pot, watering too much, or using soil Which has a tendency to pack and puddle. Best results can be had if the pot is just large onough to have the soil Inches. If theot mass about two put an inch or pot is larger than that broken crockery in the bottom. This and air to the roots and give the plants is The best soil for potted first potting one-third ture For the hird leaf mould and onethird one good combination and less third sand is mould being required for subsequent pot-tings.--Sel

When Aning Kitchen walls. Hittle kerosene to painted walls add a pailul of soapsuds. Do not have the water very hot A very good "hith CARPET.

# The Mutual Life Assurance Co'y of Canada 

HEAD OFFICE,

WATERLOO, ONTARIO

## FORTY-FOURTH YEAR

The forty-fourth annual meeting of the Company was held at its Head Office on Thursday, February fifth. The detailed reports of the transactions of the year indicated that 1913 passed into history as one of exceptional prosperity, as may be gathered from the following

## SIGNIFICANT FIGURES

| Payments to Policyholders | \$1,396,445. | Gain | ove | 912 | 120,558 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Income | 4,169,660. | 66 | 6 | 6 | 470,095 |
| Total Assets | 22,252,724. | 66 | " | 06 | 2,181,921 |
| Surplus | 3,816,612. | 6 | ${ }^{6}$ | 6 | 344,279 |
| New Assurances | 14,412,962. | 6 | * | " | 3,291,538 |
| Assurance in Force | 87,392,026. | 6 | 6 | * | 9,470,883 |

## Surplus Earned During the Year, $\mathbf{\$ 8 5 2 , 1 6 3}$.

This excellent result of the year's operations cannot fail to be extremely gratifying to the policyholders of the Company, as it guarantees to them the continuance of the payment of very generous dividends.

The usual booklet, containing in detail the complete financial statement and-a report of the proceedings of the annual meeting, will be mailed to every policyholder in due course.

## E.P.CLEMENT, K.C., GEORGE WEGENAST, PRESIDENT. <br> MANAGING DIREGTOR.

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to be done-the "PERKINS" does it.


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durable this farm engine is Requires no cranking. Is easy to operate. Uses the
minimum amount of minimum amount of fuel and does not get
out of order, if ordinary care is used. The Engine you want. Every Engine absoWritefor our booklet which gives in simstandable language the advantage points of the "Perkins' Engine." PERKINS WINDMILL \& ENGINE CO. 90 KING STREET

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## BLACK KNIGH STOVE TIPOLSH <br> FOR BRIGHTNESS <br> BLACK <br> A Paste <br> NoWaste the F.F. Dalley G. ltd. Hamilion.Ont. INo Rust $^{\text {No }}$

It Will Pay You Better To Use Ideal Stock and Poultry Foods
ourt ford are composed of the healthiest ani







 you so deaire. Feed a litule of our poutryy food Cime Do not tive your animits or fowls tood from foods are grananteed to be positively free

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the time to figure and plan for your are not busy is the time to figure and plan for your next summer's
work. Every farmer should have in his barn a Hay Carrier, and we feel satisfied when you look Sling Carrier, you will agree that it is one of the It is not a complicated machine. Its simple
It in met. repairing. The team can elevate and the car can easily handle $2,000 \mathrm{lbs}$. per draft. Team can be stopped stantly by the Carrier. There is a great saving of rope when you ue the Stratiord Hay Carrier. Do not wait till the busy spring-time or haying-time
comes to install one of our Carriers, but your slack time this winter. We are making an exceptionally low price on the
Carrier at this season, namely $\$ 8.00$.
 The Stratford Mfg. Co., Ltd., Stratford, Ont.

## Seed Oats <br> 4yw

for rap carpet is green, gray, tan, a
little blue and a touch of black evenly distributed. Do not use red or bright yellow. as they have a tendency to make a rug of this kind look "common. isfactory.
when you are catching cold. If you feel that you are catching cold
take hot drink and angage in some take hot drink and nigag that will bring about a reaction. When a cold has settled take plenty of hot drinks of any kind, and a dose of some laxative medicine.

TO REMOVE INK SPOTS
To remove ink spots from wash maFinally sinse with kerosene, then wash as usual.
EASILY Washed bed comporrs. Cover the cotton first with cheesecloth
or mosquito netting and tack firmly Make the sateen cover separate and tack lightly in place over the comfort. When the cover becomes soiled remove it and meanwhile on the line to sun and air : finally iron the cover and tack in phace again.

Loose knife handies
When knife handles loosen, fill the cavity in the handle two-thirds full of mixed resin and brick-dust. then heat the shaft of the knife and press it into A competent piano tuner says that pianos often deteriorate because they become too dry. He gives this remedy. so long as the plant thrives your piano should do so. Some place a vase with a wet sponge in it near the piano is
there is too much dry heat in the room.
enamel. ware cement
Take equal parts soft putty, finely sift-
ed coal ashes and sifted table salt, mix and pack well into the hole. Place pan the cement hardetle water in it until vessel will hold water as well as over Cleaning woodwork. rubbing it with be easily cleaned by ing well afterwards with If you dislike using the coal oil milk and water mixed, with a
mild soap. Rub dry and pollsn.
NEW SHIRTWAISTS FROM OLM very good shirtwaists may be made
from men's shirts which have carded because frayed at the cuffs. Custhe shirt carefully apart, leaving the
front opening intact to serve ns the front finishing of the shirtwais a Gef rid of rats and mice. A writer in Harper's Bazar says that
rats and mice thay be driven away by laying heaps of powdered sulphur about
wherever the wherever the rodents are in the habit coming.
keeping bread warm
dough warm over night is to set it on a warm soapstone wrapped in a clean flannel.

A doughnut wrinkle.
As you take each cake from the kettle pot of boiling water and take it out as soon as wet. This will take all sup
fluous grease from th3 doughnuts

## STAMPS STUCK TOGETHER

## lay stamps have become glued together

 lay a thin paper over them and run ahot iron over it.

## at once.

MAKING EYELETS.
When punching eyslnts, place the material over a cake of white soap. This
makes a firm edge, which is easily worked
Put TO KEEP LEMONS
Put a layer of dry, fine sand, an inch
deep, in the bottom of oock. Place the lemons an this stare
down. and be cariful that the lemwith sand. then put on more lemons and


Why not invest in permanent roofing?
Avoid needless expense for roofing that demands frequent repairs. Get Genasco, made of "Nature's everlasting water-proofer"-Trinidad Lake asphalt.

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 Ready Rogingis a sure and lasting protection against sun, rain, snow, wind, heat, and cold; it is attractive and economical as well.
Write us for samples and the Good Roor Ouide Book A-k your dealer for Genacon $=$
The Barber Asphalt Pavine Company
Larsest producers in the world Philadelphia
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exce have another fine supply of 21 barley, samples Our original supply was grown from registered
greed.
Present supply was specially grown for
 eats, fifty-five. Bags extra. Hensall, Ont.
JOHN ELDER \& SONS.

## ENGLLSH HANT-IMAELLACE <br> MADE BY THE COTTAGERS OF BUCKINGHAMSHIRE.

This is the oldafashioned lace made on the cushion, and was first introduced into England Our Looen, were awarded the Gold Medal at the Festival of Empire and Imperial
 bo rilles
 containing 200 striking oxamples of the leoe makers' art, And is sent post free to any part of the
world. Leoof for overy purpose oan be obtained, and within reach of the most modest papee.

$$
\text { Ho. } 210 \text { - Laco } 1 \mathrm{f} \text { in. doeg, greet edivaptegen }
$$

Mo. 910 .-Lece 14 in. deap

Mrs. Addie Armetrong, Olney, Bucke, England

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T. G. Meredith, K.C.,

HUME CRONYN,
100 Standard Walking Plows


$\$ 10$ each
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Erie Iron Works, Limited; St. Thomas, Ont

 for 1914. which can be obtaincd only directfrom us. Many a winter's evening can be sp=nt profitably in planning , yor suanaine
WM.RENNIE CO., Limited
Cor. Adelaide and Jarvis
Streets, TORONTO

TO REMOVE RUSTY SCREWS Apply a very hot iron to the head of
the screw for a minute, then use the
screw-driver a screw-driver at once.

Sew black netting over the hole in
stockings and darn in the usual thockings and darn in the usual way, but
through the meshes, skipping every other one. The result. will be a firm, neat darn. If white netting be used, the same
idea may be used for knitted underwear.
to clean a steel buckíl.
Steel buckles and ornaments that have become slightly rusted, may be cleaned as follows: Rub well with sweet oil;
let stand for a couple of days, then rub with powdered, unslaked lime, and polish with chamois.
breadmaking hint
A housekeeper says that bread dough will not stick to the mixing-pan if the pan is first greased with lard, and the
flour is put in next, then the water. Beflour is put in next, then the water. Be-
fore mixing the bread with the handsp first wash them well and cfean the nails ing with the dough. them before workmixer is. of course, the ideal way to mix

TO TEST A BROOM.
When buying a broom, test it byepress-
ing the edge against the foor. If the ing the edge against the foor. If the
straws bristle out and bend, the brobm is a poor one. They should remain in a solid, firm mass.

TO RUN RIBBON
To run ribbon through beading, or to one end of the tibbon and use as though it were, a tape-needie, whic
seldom to be found when wanted.

## CHOPPED OHEESE:

 instead of grating it. Much less time will be required.

Use a wire dish-cli-CLOTH.
Useught for a trife, for cleaning bets It will save much time.

DROP COOKIES.
fine, and a half cups brown sugar. 1 cup of butter, 3 eggs, $\frac{1}{2}$ cup of seeded raisins, $\frac{1}{1}$ cup of Engluish walnuts chopped Drop on a well-greased pan, about a
large teaspoon for each cookie, and bake in a quick oven. LORENE. Haldimand Co., Ont.

A St. Valentine's evening. Dear Junia,-Will y vu kindly, give sug-
gestions for a "St." Valentine's Night" gestions for a "St. Valentine's Night" For a Literary Society ? A. M.
"Heart Games" are. of course, appropriate for a Valentine party: Here are a few suggestions
board squares with letters of the alphebet. Let each of the company take a
handful and write sentencerastinter handful and write sentencem (jifelorablis sentimental) from the -letters- which, they
draw. the words to begin with the letdraw. the words to begin with the lat-
ters drawn. At the end of a certar time, read the sentences aloud and award a prize for the ene voted best.
(2) Have each person read or recite What he or she considers the most beau-
tiful love song in the English language Give a prize for the une voted best (A good suggestion for a prize for this is "An English Woman's Love Letters.") (3) Distribute paper and pencils, and have each write a rhyme for a valentine. Those who wish may also draw a picture
to illustrate, as well as write a verse? At a Literary Society meeting, a paper on the origin of St. Valeentine's. Day,
should. of course, be read, and some pretty love-songs should be sung. "partners," here are two -rather noty ways: (1) Cut as many hearts from red tissue-paper as there are girls in the party. Let someone take up one
at a time and send it with a puff fröm at a time and send it with a puff from a palm-leal fan into the ranks of the guests. Each man must catch a aflying
heart, and take as supper-partner the heart, and take as supper - partner the
girl whose name appears on-the heart

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$$
\begin{aligned}
& \text { then } \\
& \text { thes }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Should, of course, coneses largely of red } \\
& \text { hears. Cupiss ete. These can be bought } \\
& \text { all ready for use. }
\end{aligned}
$$

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No. 765-A design for embroidering
over for a pillow or cushion twenty
The flowers and leaves are designed $t$ be worked in lonk and short stitch. or
o be simply outlined. The seed pod are to be worked in solid embroidery,
the stems and veins are to be outlined and the stamens worked in French knots. Tinted in fast colors on tan ticking
$22 \times 22$ inches, with green duck back and mercerized floss to work, 40 C .; or trans-

$\qquad$ teen inches wide are given. The flowers and leaves of the design can flowers may be made solid with the
leaves in eyelet work, or both can be as eyelets: the stems are to be outlined; the
scroll-like figures to be worked the dots may be made as eyelets or Stamped on best round thread white
linen, $20 \times 54$ inches, 98 c ., or transfer One dozen of 12 -yard skeins of mer-
cerized floss in cerized floss in two sizes. 20c.

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 Egyptian Liniment Kick
 - It hive ented mouitas' Eevodan Lini-



为



 DOUGLAS \& COMPANY


Questions and Answere.



 Miscellaneous.

## Permanent Pasture

Would you kindly give me, through your columns, a permanent grass mixture ior
2. A very light, gravelly soil?
3. A heavy loam
3. Would it be any use trying to grow - grain crop on No. 1 when seeding down? If so, what grain
4. Not having any barnyard manure to spare, would fertilizer do any good, and
if so, what kind, to give things a start. if so, what kind, to give things a start,
or would it wash through in No. 19
"assam."
Ans.-1. For the light soil, try orch-
ard grass, 5 lbs.
meadow tall oat grass, 2 libs.; meadow foxtail, 2 los.; alfalfa, 5 lbs.; white clover, 3 lbs. and red clover. 1 lb . per acre.
2. This would do all right on the heavier soii, provided it is not too low.
If low, try orchard grass, 4 libs. : meado. If low, try orchard grass, 4 libs.: mendow
Reecue, 4 liss: meadow foxtail. 2 lbe. red
 top, 4 ibs.: timothy, 2 ibs.:
3 ibs.: white clover, 2 lbs.
3. With No. 1, you might try barley, duce much grain.
4. Fertilizer consisting of trom 100 to 200 lhs . of nitrate of suda; 250 to 350 libs. of acid phosphate, and so to 150 would likely aid of potash, per acre, Would likely aid materially on the light
soil.
old pastures may be helped hy soli. Olid pastures may
application of basic slag.

Preparing for Corn
I have six acres that 1 wish to plant for. I was thinking of sowing land-
plaster. 1. Do you think land-plaster would be any benefit ?
2. How would you put it on, and how
much per an ? 3. When Wuud you now it, belore it is
30wed or ater corn is panted 4. How many pounge Der acre would de equal to ten loads per acre of wellrotted manure?
5. Did you, at Weldwoou, ever sow a
variety of corn called Variety of corn called Huron? If so,
how dioes it compare with Leaming for
silage to tow toes it compare with Leaming for
silage?
SUBSCRIBER. Ans,-1, 2, 3 and 4. We would not adcorn. Land-plaster is sulphatene for cium, and is often called gspsum.
of very limited value of very limited value, and most suitable
for leguminous crops, alfalla, or for root crops, which seem to
ather and do well with a large percentage of cal-
cium in the soll cium in the soil, and alsontage oo considerable
sulphur sulphur. On virgin or new soil, gypsum
gives, sometimes gives, sometimes, wonderful results with
clover, but we would not advise using
 6. yere that a small amount of it could 1.) pratent the stable with the manure, Honia. If you hive no barnyard ma
tire mor your corn, we would advis using a mixed fertilizer of from 100
i50 pounds of nitrate of sote 300 400 pounds of acid phosphate, and too to 150 pounds of muriate of potash. So far, we have never sowed a
Weldwood a variety of corn called Huron co cannot give any comparative state
nent as to yield and quality of silage.

## C.X.L. Stumping Powder

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## Questions and Answers.

 Miscellaneous.
## Lightning Rods.

As 1 am interested in lightning rods, I ask your opinion as to the protection they afford, and also the class of rods you would recommend, is any. H. G. Ans.-It has been conclusively proven Cthat lightning rods of the proper ma terial and properly instanled, are a pro-
tection to buildings, and for kinds of rods and installation, we would refer you to our lasue of December 25, 1918, page 2288, article from a paper delivered by Prof. w. H. Day, at the Ontario Provincia, Winter Falr.

A Cattle Deal.
A anld two cows to B. B gave him two dollars down on them. There was no stated day for him to take them eway. In the meantime, one cow dies. Who ts the loser. A or B? Farmer. Ans.-From our underatanding of the question, B. being the owner of the cown at the time of the loss of the one, would oo the loser, no time being stated an to when they were to be taken away. The cows were the property of B as soon as bought. However, in such case, some consideration should be made, and one man should not be compolled to bear all the loss unless there was carelessness on the part of the man in whose charge the cows were. In such case, that man - How to

How to Tan.

1. How to tan (Indian tan) deer hides,
with hair oif? 2. How to tan mink, muskrat, etc. with hair on, E. J. P. Ans.-1. We advise against attempting to tan these at home. Send them to a 2.
2. Again we say, send them to a tan-
nery.
But if you choose to tan at home try soaking the hide in soft water for three days. Then scrape off all flesh and Rat. When thoroughly cleaned, put into
a tan composed of equal parts of alum a tan composed of equal parts of alum
and salt dissolved in hot water (seven pounds of alum and salt to (seven pounds of water. or in these provorHang up Leave in this for two days. back again in brine for two days. Then hang up until quite dry, and shave and ocrape again. After this, apply a coat until dry. Apply a coat of soft soap and lay again in sawdust. scraping $^{\text {St }}$ and working the skin must be thoroughly done to get it soft and pliable.

## Three-horse Eveners.

Would be pleased to have you publish n your paper a three-horse evener, for
use on a riding plow, so that each horse will do his share without the tugs rub-
wing the pole.
R. H.


Allustration a plow with a tongue, the draft has been criticised as not distributing draft evenly, but it gives earrly good
natiefaction.


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## WINDMILLS



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Gossip. A Little horse history Across the sea. in the land of the
heather, an annual tabulation of the winnings of the get of the various sires among the Clydesdales has proven an intallible index for breeders requiring the services of the most successful sires of ber to which the clyportance and numattained in this country standard reached in the pro win thandard reached in a large proportion the time has arrived when something along those lines should be attempted in Canada. The followting short history of the ramarkable success as a sire of show-
ring winners of the eight-year-old, Black vory (imp.) 7761, will be of consider this paper. Iniported and readers of Smith \& Richardaon, of Columbus, Ont he was sired by the unbeaten champion, Everiasting, dam by the Highland and royal champion, Prince Thomas, grasdam by the cilasgow champion, Lord ing he rightfully gota his remable breedquality and his ability to sire winnera At Castle Douglas, in 1907, be was Arat, beating the winner at the Royal. Ho ronto in 100 . Winter show in $\mathrm{To}_{0}$ ronto in 1808, and in the rall of the frrst et Ottama. In 1909 Toronto and and reserve champlon at the winter shay in Toronto, and first and champion at Ogdensburg. New York. As a sire of winners, he is in a class by himselt aniong stanions owned in canada, in largest county previous decade. At the namely, Oshawa, in 1909, for best fyo, colts of one sire, his was Arrat. elso Arst and second in draft colt class. In 1910 at the same show, his get was frst on
both stallion and filly colts, and first for both stallion and filly colts, and first for
the best colt at the show. At Guelph. ine best colt at the show. At Guelph, 1911, the same colt won the same honors at the Ottawa Winter Show. Another son, Bay IVory, was third at To-
ronto in the fall of 1910, and first at Otawa; at the Winter Show at Guelph Ottawa in year he was fourth, and at
ond ond At the same show. another foal,
get of his, was frrst Oshawa Show in 1911, his gain. at the won first on
group of four group of Your, and first, second and
fourth on stallion colts. At Guelph, in
Dece December, Prince Ivory was first in a
class of twenty-one, and champion all ages. In January, 1912, his colts
won first and second in a class of fourteen. Prince Ivory again winning cham-
pionship. In January, 1913. at Ottama. another son. Baron Shapely, won firat
and championship. In winnog and championship. In Winnipeg the
same year, Prince Ivory again won cham-
pionship and was first and champion. At Atlo. Itawa, it the three - year-old filly class, Ivory
Queenie was urst and reserve champion. and Black Queenie, third. In the twofirst, and the cearring stallion clase
Clen Glen Ivory was frst and champion over in December. This is a remarkablo rerord of winnings for an individual sire,
all the more creditable when it years, that hhould is yet but young in span of horse life, he will have left a
name almost as immortal

Questions and Answers.
Veterinary
Unthrifty Colt
Weanling colt, when eating, salivates
great deal great deal, and it is not thriving. Ans.-The symptoms indicate irregu-
larity of the teeth a colt of its age, but is sometimes seen
Cet Get your veterinarian, or someone who
understands the mouth of horses, to amine it, and probably he will be able
to correct the tault so correct the fault. There may be
something wrong with the tongue cheeks.
che wrong with the tongue or
mouth.


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## Gossip.

 as usual with a 1 list of Clydesdale stal-
lions and their respective standing according to the winnings of their get at
Scotland's leading hors In the list for 1913 is Baron of Buchlyvie with a total of 58 prizes won by his get. $\begin{array}{ccc}\text { These } & \text { include } & 22 \text { firsts, } 17 \\ \text { thirds, seconds, } \\ \text { and } & \text { championships. } & \text { Second }\end{array}$ place goes to Apukwa, with a
82 2 thirds, and 3 championships. 5 seconds, 1 In third
2 place is Dunure Footprint, with a total of 27 prizes, including
onds, and 6 frsts, seven sec-
thirds.
Fourth place goes to Baron's Pride, with a total of 25
prizes, including ${ }_{6}^{\text {arta }}$ firsts, 4 seconds, 4 prizes, including 6 ersts, 4 seconds, 4
thirds, and $2{ }^{2}$ championships. As this great horse has been dead over a year,
he must take a lower place year by year Fitth place went to Hiawatha, sixxth to Revelanta, seventh to Scotland Yet,
eighth to Everlasting, ninth to Aucheneighth to Everlasting, ninth to Auchen-
lower, and tenth to Ovama.
h. F. patterson's holstein sale Holatein sale to be held by H. Fo big terson, three-quarters of a mile from Alford Junction Station, on the main
line of the G. T. R., between Hamilton and Brantford, one of the cows to be sold is Evangeline 2nd's Snowfake, with
an threo-year-old record of 21.048 whs. This Cow. in the dairy test at the Guelph Winter Show in 1912, was fourth in general standing. She is now giving 83 ibs. a day, and is one of the great cows is a daughter of heida. Another one Spot, that in a R. O. P. teat starting at one year 363 days, made $7,729 \mathrm{lbs}$. milk, testing 3.49 per cent., and 270 lbs . butter-fat. They are a high-class pair of show cows. Another big, level cow
of how form, is Beta, a seven-year-old,
ond test in 1912 was sixth, and in 1913 was seventh. This is easily a $100-1 \mathrm{~b}$--a-day row. Her yield this fall, without forc-
ing, was 95 l los. are in the sale, one of her daughters
Nellie seta's Nellie, starting in the R. O. P. test at testing 3.34 per cent., and 255 lbs . but ter-fat. Blanche Kay is another of the good ones to be sold. Her mature rec ord is 23.12 lbs. One of her daughters,
Blanche Blanche Kay Beaury, commencing R. O
P. test at two years and 23 days in 320 days 10,339 lbs. milk, testing 8.54 per cent., and 366.194 lbs. bustter-
fat. Something particularly choice Spinks 'August Daisy, with a two-yearold R. O. M. record of 14.62 lbs , and a
R. O. P. record of 10.77625 R. . P. record of $10,776.25$ lbs. milk,
and 401.746 . lbs. butter-fat. Another with a two-year-old record of 11.39 lbs, made three months after calving, is Pie Eerte Alice. Eunice Jane Posch, as a
four-year-old, made 18.09 lbs. butter, and 446.2 lbs. butter-fat. Topsy Canary De
Boer is a two-year-old untested Boer is a two-year-old untested. Her
dam's record is 21.91 lbs, and grandam's 30.23 the both with, and grater-at test of 4.02 per cent. Boutsje Posch De cows, has a recard of 23.03 lbs. butter $\begin{array}{ll}\text { and } 422.4 & \text { lbs. milk, testing } 4.36 \text { per } \\ \text { cent. as a two-year-olde now as a six }\end{array}$ cent. as a two-year-old, now, as a six
year-old, her 30 -day record is $85 \frac{1}{2}$ lbs butter, and 1.855 lbs. milk. Her dam's son of the famous College cow, Boutsje
Q. Pietertje De Kol. Luella De Boer, a three-year-old, has a two-year-old recor
a 11.15 lbs.. her dam 19.81 lbs. and sire's dam 25.71 lbs Boutsje Posch De
Kol, a five-year-old, has a record at four years of 20.06 lbs., milk test 4.03 per cent.. and her dam 27.3 llbs s, test 4.35
lbs.o sire's dam the College cur. An-
other twone other two-year-old soon to frrshen, has
for backing : sire's dam's record 27.35 Lis.. and dam's record at 12 years or
age 16.39 lbs., R. O. M. and R. O. P.. eream of the entire lot is a two-year-old, just calved, a show proposition of a high
order. An alluring yearling has for backing a dam with a record of 30.06 lbs., Another heifer's dam and sire's dam have records averaging
and butter-fat test of 4.05
per cent Enough has been mentioned to slow the is production selaom or never before oflered by auction. Write Mr. Patterson
for catalogue to R. R. No. 4 , Paris, Ont.

## A SOIL ROBBER

- E is a so-called farmer who has cropped and cropped, year after year, without returning a pound of plant food to the soil to replace ren that nothinreds he has sold off the farm. His soil has become so barSuch a farmer is a menace to the community and a blot on his class. Many other farmers are trying to maintain the fertility of their soil on crop removes varying quantities of Nitrogen, Phosphoric Acid and POTASH from the soil. If fertility is to be maintained, these must be returned in some doing a farmer will This can be done by artificial fertilizers, and by so doing a farmer will not only maintain the fertility of his soil, but greatly that does not contain a readily available supply will raise a maximum crop.


## Muriate of Potash and Sulphite of Potash

can be obtained from the leading fertilizer dealers and seedsmen of fertilizer experiments. These include: bulletins, which contain results ts. These include
Artificial Fertilizers: Their Nature and Use." "The Principal Potash and Garden." "The Potato Crop in Canada." "Farmer's Companion," etc. STATE WHICH YOU REQUIRE.
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Twentieth Year of selling Our Catalogue will help you to choose just the
Vehicle or Harness you require, and save you money. It describes and pictures many styles gives prices, freight prepaid, and fully ex plains our method of'seling Direct, and saving pay the freight in Ontario and Eastern Canada. The Catalogue is free for the asking. Send for it to-day.
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1

 STALLLIONS \& CLYDESDALES PRIZREWINTERE


Imp. Clydesdale Mares and Fillies
 Imported CLYDESDALE Stallions .
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CLYDESDALES, IMPORTED ${ }^{\text {STALLIONS }}$ ANLIES



TATISTICS prove that the majority of accidents could have been prevented by a little forethought.

There is no longer aty excuse for a horse floundering or falling on icy streets, sustaining sprains and bruises, perhaps becoming permanently or even fatally injured.

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present a safe, easy way of sharpening that assures absolute safety to horse and driver. They are easily and quickly adjusted and once in will stay in, wearing sharper with use.
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 deperience; best references; Correspondence emile thed P.S. -N.
bore district.

Questions and Answers. Miscellaneous.

## Tax Discount.

A owns property in Calgary, Alta. which is rented to $\mathbf{B}$ for a term of yeara agreement in leaso that $\mathbf{B}$ pays rent monthly, in advance, and all rates and caxes. B did not pay general tax in time to get rebate, and threatens to de-
duct 10-percent. dibcount of taxes from rent, because A did not advise B when taxes were due. A never roceived tax account from Clty of Calgary, and
thought B had attended to matter, and thought B had attended to matter, and
only discovered after taxes were overdue only discovered after taxees were overdue
that tax was not pald by writung to that tax was not pild by writugy to
treasurer of city.
B has sinct paid taxes in full, but is deducting the 10 percent. rebate trom rent. Can B do
this?
ENQUIRER.
B. $\mathbf{c}$.

Ans.-We do not see that he is legally Feeding Oats and Roots.
What is the proper way to foed pulped
roots and crushed oats to steers? If roots and crushed oats to steers ? If
they should be mixed together, please they should be mixed together, please
give the reason why. We have taken give the reason why. We have taken
"The Farmer's Advocate". for years, and would not be without it. H. M. Ans,-Wo do not know that it matters
very much whether the oats are fed together or separately. There might be a little less waste in some instances by feeding them mixed, or with some stock It might make a little more palatable
feed. but oats and roots are palatable loed, but oats and roots are palatable
either alone or ted together. Some good tither alone or ted together. Some good
teeders practice feeding grain, roots, and roughage. all cut and mixed together. It is a very good practice indeed, the hay and straw being cut fine and thoroughly mixed up with the pulped roots Corushed or ground grain
Cobbed or Uncobbed Corn for Sillo. Derience with a silo. a man who had ex-
He says that corr without cohs is better ensilage than corn ith cobs. I am contemplating building who had such experience.
2. Is it necessary to have drainage

Ans.-1. An experimental station. he United States reports. from an ex done, that silage made from corn work cobbed up, provided the corn has had long a period of growth as that which
has produced cobs, is even better that cobs. Very little a large percentage o subject, either here or in the United
sur States, but we should like to get from any of our readers who have tried the
two methods, their experience. 2. It is always advisable to have tile the wall.

Lumber Dispute.
A received blocks from B inr raising
barn in 1909, to be returned or pay value of them. Carpenter who raised
barn said they were only worth the of firewood. $A$ inquired of $B$ several
ore times by 'phone, what he wanted for them, but got no batisfactory answer.
themento B about two years ago and
told B it bo mater of wood he would return than the price A and $B$ would not difter on on the price
as they were not worth much was a trifle less than a cord. Now B
sends A bill for measurement of blocks. Can B collect wood. or would $A$ have to return blocks? a a subscriber. Ans.- Such a misunderstanding as this
should be settled amicably between the parties. We are not in a peosition to
state the value of the blocks. if the
sat the man who loaned them valued them at
the time they were loaned as board
measure, it is more than likely that he will be able to collect that amount of
micnee tor them. Seeing that A did not
return them, and has destroyed sid them, he is not in a position now to
take them back to B. He might buy
like black bat like blocks, but this would cost him, in
all probability, board measure more than likely that measure. It is collect for
these blocks more than wood.

## McCormick Drills For Eastern Canada



A McCORMICK drill prepares the best possible seed bed, and McCormick drills are longest-wearing. Any man who owns one of these implements will assure you that these are facts. When you buy a drill, buy a McCormick.
McCormick single disk and hoe drills have continuous axles, strong, light, thoroughly ning drive wheels. They have a double run forco feed which adapests them perfectly to the sowing of ll kinds of seed.
Bearings are simple as nearly as possible dustcapacity, and they are too firmly supported to allo sagging.
eent's CCormick drills at the nearest I HC local agent's. All their features aro explained in ou line to the nearest branch house.
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Aberdeen-Angus of Show Form anaman my fifing young buile and helfere ly and bred from one. Show-winnering Torm. And qual
OOT, Fergus, (nt. G. T. R. and C. P. R.

## SHORTHORNS

Bulls all sold, choice females for sale. 1
yearling Clyde stallion, 1 weanling Clyde stallion, big, best quality and breeding. John Clancy, Cargill Limited,
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 CHAS. E. BONNYGASTLE WOOD Station Campbellford, Ontario WOODHOLME SHORTHORNS
 Please mention "The Farmer's - On

Questions and Answers. Miscellaneous.

Sweet Clover. 1. Where ran I buy sweet clover seed
and at what price ? 2. Do you sow it alone, or with a
nurse crop ? 8. How long will it remain in the so
without reseeding ? Ans.-1. You can purchase sweet clove
seed from any of the ing in these columns. nurse crop.
3. It is a biennial plant.

Farmers and Line Fence.
A and B are neighbor farmers. B's
farm is all bush. B has been taking out farm is all bush. B has been taking out
the timber for two years. He sleeps in the timber for two years. He sleeps in
the bush, and horse stable is also in the bush. He has a sawmill and saws all the lumber. B will not do anything regarding the line fence. Of A's farm, there is about 60 acres cleared, part wire lence. The remainder is bush. He
is willing to put up remainder of his is willing to put up remainder of his this spring? A SUBSCRIBER.
Ans.-No.
Carriers and Blower
Could you, please furnish me any in-
formation re the flling of silo with a six- or seven-horse power gasoline engine? Which would be the most satisfactory small blower or cutting-box and carriers? U any of your subscribers have had any experience with either method, I would nny other method of elevating is ther from the box? Ans.-With an engine of only six- or
aeven-horse power, it might be rathe difficult to work up enough power to operate a fairly large cutting-box with a blower attached. The blower requires readers have had experience with thi
rear type of engine filling silos, either with the cutting-box and blower or the cut-
ting-box and carriers, they might give ting-box and carriers, they might give
other readers the benefit of their experi once. We do not know anv other satis
one factory method of elevating the corn from the box.

Warts-Unthriity Colt is the cause of large clusters of warts is the cause of It started with wart warts all over the belly, and now hangs in one mass, which I should imakine
would weigh four or five pounds. The nearest thing I can compare it to is hornet's nest. The heifer is rising two.
and a steer standing next to her has one and a steer standing next to her has one
starting on his shoulder. Kindly give a simple and effective cure. Kindly give 2. We had a very unthrifty calf last summer. and had a man come and cas-
trate him. He said the call had only trate him. He said the calf had only
one testicle, and he would not take it one testicle, and he would not take it
out till the other one came down. The other testicle never came down, so we butchered the animal when a yearling, and only found the one testicle. The
enimal never grew after about three roonths old, and the meat was so tough the dog had a job to eat it. We have
another hull cal? this summer in the same condition, by the same bull. but a different dam. Please explain.

Ans.-1. This is not contagious. Any
animal is liable to warts, and the cause is not well understood. They sometimes appear quickly, and when not large, frewith constricted necks should be cut off. Large, flat ones, should be dissected off, and the raw surfaces dressed once daily for three or four days with butter of antimony applied with a feather. and after that, three times daily with one
part carbolic acid to thirty parts of sweet oil until healed. Small, flat ones.
should be dressed with butter of antimony once daily until they disappear. is a hereditary tendency in some male animals to produce male calves with onlv
one testicle down. especially if the sire one testicle down, especially if the sire
himself has only one. The call's being so unthrifty should not be due to this
fact, however. There must be something else constitutionally wrong with
the calf. If he is valuable, have your

## Sydney Basic Slag

The ideal fertilizer for stiff clay lands and all sour or muck soils. A1
armers in Ontario realize that something is lacking in the soil, and
thousands of them will this season start using fertilizer for the first time. They will be pressed to buy all kinds

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because it is much more reasonable in price than, and will give.as good re suits as the buik of the fertilizers offered elsewhere. Ask the district repre and be guided by his pinion Do mu scrupulous agents for other goods. Twenty thousand tons of BASIC SLAC were used last season by the farmers of the Maritime Provinces and Quebec What is good for Nova Scotia will be equally beneficial in Ontario. If you think you would like to take an agency for BASIC SLAG, write at once to any of our

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8 head from 10 to 18 months, bred from cowsw which are from inmorted dams and sired by
thoicely bred bulls, pices are not high as 1 need the space for stabling catte. bLaIRGOWRIE FARM SHORTHORUS

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 as high-priced American completefertilizers contain. Your fertilizer should contain $4 \%$ of active nitro gen. Does it? On land farmed for centuries England raises 33 bushels of wheat
per acre. We raise but 14. Europe per acre. Werts $100 \%$ active Nitrate of Soda. You use dried blood, tankage only more for it.

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Glengow Shorthorns
Five of the best bull calves ever in the
herd, ranging from 9 months to 15 months. A "Kilblean Beauty" calf, a show proposition. A number
WM. SMITH. $\quad$ Columbus, Ontario
47 SHORTHORNS
 respectively. Also a few females of milk strain,
Visitors say they
find things as represented. Spring Valley Shorthorns A Rew of the best young bull prospects we ever had.
They will please young Will sell females toor visit
the herd; we think we can suit yout Particulars

## Shorthorns For Sale

 Stewart M. Graham, Lindsay, Ont Shorthorns and Leicesters mostly sired by imported Connamgh Roy Roya
Something versy choice in young bulls. Housh

## SHORTHORNS FOR SALE

$\qquad$ Spruce Lodge $\underset{\substack{\text { Shorthorns } \\ \text { Prsent }}}{\& \text { Leticestets }}$


## Questions and Answers.

 Miscellaneous.
## Soiled Suit

Would you please tell me what wout
remove slag from a nary - blue suit It became smeared "whlle attending t out on the clothes. It leaves a buish
m. F. Ans.-Can any of our readers answer
this?
Farm Fencing A's and B's farms join. The conces-
sion road allowance lies between them B has all the road allowance and he ha
his land all cleared. B has always kep his land all cleared. B has always kep
the line fence in repair. Now he want
to make A build half of line ence. land being in bush, can B compel A t
build half of line fence? Ontario. A subscriber. Ans, $-N o$.

```
Having seen the item
```

Having seen the item of "What the
Experimental Union is Doing "/ digrus ing the different varieties of farm crops I thought it would be no harm to write and ask you where a person could nb
tain some seed grain of either the 0 . of oats ?
Ans.-At the present time. there are
very few farmers who have any consider able quantity of O . A. C. No. 72 cats or 0 . A. C. No.
able to get seed through mental Union, or from some of the meers men advertising in these columns, but a present the quantity, especially of No. 3.
is limited. is limited. If you would become a mpm-
ber of the Experimental Union, you might ber of the Experimental Union, you migh be able to get a few pounds for a start
for experimental purposes, free of charge Many growers of good seed grain have commenced by this method, and have
succeeded in producing, after a few years succeeded in producing, after a few years
large quantities of the best varieties of
our present-day cereals.

Sale of Colt.
What is the law on selling a colt that
was altered last spring? There was was attered last spring? There was
one stone that could not be found, and
no sign of it since sold without saying anything about it.
and it caused the purchaser any trouble latér on, could the purchaser collect dam-Ans.-We think that it is likely that
the purchaser of the horse could some damages, or make the seller take
the colt back. However, this depends
to a great cextent upon, the agreend between the two parties when the sale
was put through. You state that was not mentioned that the colt was a
ridgling. have mentioned this. It would be im
possible for the buver to ascertain the a horseman he was, and taking all cir
cunces that the seller should be liable for dam

## Pasturing Wheat

## Does it do anv harm to fall wheat Do pasture it in the fall, it being sow

2. Does it hurt new seeded alfalfa to
be pastured the first fall?
H. F. B Ans.-1. Under some conditions, where
the fall wheat has an exceedingly large
t top in the fall, it is thought to be bene-
ficial rather than harmful, to pasture it righty. of course, it would not do to not believe it is good practice to
pasture wheat. We think that
wheat enough top than by having not having athough we have seen fal! wheat come
chrough in very good condition and
veld large crops aftor having been was-

Salem Shorthorns $\begin{gathered}\text {-As ever in the front rank. } \\ \text { offing: } \\ \text { Ten young bulls, }\end{gathered}$
ATT. Elora. Ont.

Ayrshires \& Y Orkshires | $-\begin{array}{c}\text { Bulls for service of different } \\ \text { agesi females all } \\ \text { ves of both sexes. } \\ \text { Ail } \\ \text { Comed }\end{array}$ |
| :---: | ALEX HUME \& COMPAMY, - CAMPBELLFORD, R. R. No. 3.

## P. D. McARTHUR'S AYRSHIRES

In official record, high testinn Ayrshires, that have won scores of prizes. I can surfly
sumply your wants over so to select from. Y oung bulls of superb breding on record
provluciny linent




FEBRUARY 12, 1914
ter ma. of good ch one is The re The ree raction un-
all driving asted by ng, squ
in severa
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bred dams with good A. R. O. backing. Wm. A. Rife, $\quad$ Hespeler, Ontario Maple Grove Holsteins
 oull of the breed in ranest butter and mada. These bulls are out just freshened. If you want the best a few heite heifes
jor H. Bollert, R.R. No. 1, Tavistock, Ont.

Woodbine Holsteins



 The Maples Holstein Herd fubled by proce Aagtit Mechhidet, rroent
 For Sale ${ }^{- \text {Reg. Holstelns-A few choice }}$ ad May; also three yearg cows, due to calve March


## HOLSTEINS



## Robert Gossip.

Robert Millir writes: "The auction
sale
attractive pricios agna rear for good young
Shorthorn bulls and hate The demand has remained active. and good Shorthorns are getting harder to buy and more dificicult to find. The
shortage in the greater than it has ever been, and more Inen will go without good bulls than has
been the cass before number, and will supply the demand a long as possible. Have never had so many good young bulls, and have never
sold half so many belore, ns within the past three munths.'

GEO. E. MORDEN \& SON'S Short HORNS.
With a big herd to select E. Morden \& Son, of Oakville, Ont., are in a particularly favorabls position to supply the wants of the public in Shorthorns of pure Scotch breeding. Pure booth breeding, or Scotch - topped Bates on only ordinary care and feeding, fill a twelvequart pail night and mont ing, which is no mean producing, and demonstrates that there is such a thing as a dual-purpose cow. Nonpareils an
Roan Ladys are the principal scot tribes, while the Booth tribe is repre sented by the old, popular, Souerby strain, the Bates, tracing to several of
the old, imported cows of past years. the old, imported cows of past years.
Practically all the young things are the get of Pride's Ruler 70491, a son of the and out of Gladys 5th, by Red Chief? The calves now coming are the get of
the present stock bull, Mountaineer 77726, the Missiebred son of the great
Uppermill Omega (imp.), dam Mistlete 21st (imp.)., by Nompareil Victor, gran-
deotish Archer. dam by Scottish Archer. The Booth Booth-bred bull, Royal Albert 83738,

red two-yearold son oi Prince Albert 81244, dam Souerby's Flower, by Imp | $\begin{array}{l}\text { Patriot. This is a level-lined, typical } \\ \text { dairy bull. } \\ \text { He is for sale, as well as }\end{array}$ |
| :--- | younger ones of the same breeding, also

others pure Scotch and Scotch others pure Scotch and Scotch-toppers,
as well as heifers of the different strains Write Mr. Morden.

Ciydesdales and shorthorns at One of the most important auction
sales ever held in the county of Haldimand will be the complete dispersion ot the high-class stud of Clydesdales and
herd of Enylish milking Shorthorng owned by Robert Nichol, of Hagersville, Ont... on Thursday, March 5th, 1914. Mr. Nichol has sold his farm, and consequently everything will be sold, posi-
tively without reserve. nively without reserve. Theur of them bulls, among which is his wonderfully good-
breeding bull, Imp. Dorothy's King; the other three are along about ten months of age. In next week's issue will be a
short resume of the Shorthorns. This short resume of the Shorthorns. This
week a little insight into the breeding
quality of the Clydesdales is given, but for full particulars, write for catalogue to Robt. Nichol, Hagersville P. O.
Among the Clydesdales are several unAmong the Clydesdales are several un-
beaten at the local shows, up to plenty quality so much sought after. Ivy Baron 15605 is a brown two-year-old stallion,
got by Imp. Opulence, dam Blossom 6173, by Imp. Alexander's Heir. He is first wherever shown. Gay Spark Jr. 15606 is a bay, nine-months-old colt, by
Imp. Gay Spark, dam Blossom 6173. This is an exceptionally good colt.
Among the mares, all of which are big, well - balanced show mares, are Lady Alexander's Heir, and her filly foal, by
Gay Spark; Imp. Rosie Amber 32266 , Gay Spark; Imp. Rosie Amber 32266.
bay, five years, by Rose Crown (imp.). and Retsy Amber 32265, bay, four years,
by Opulence (imp.), are daughters of
Lady Amber. These, and a filly foal out of Betsy Amber, got by $\begin{aligned} & \text { Opulence } \\ & \text { (imp.). Will nlso be } \\ & \text { pold. } \\ & \text { purchasers will motending }\end{aligned}$
se disappointed in (imp.). Will niso be sold. Intending
purchasers will not he disappointed in
the quality of these

## 50 R.O.M. Holsteins, R.O.P. Holsteins 50

BY AUCTION
Having rented his Farm Mr. H. F. Patterson, R.R. No. 4, Paris, Ont
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3 - year - olds up to 21.43-lbs.; 2 -year-olds
up. 14.62 - lo. 1 lbs
R.O.P. records from 0,776-lbs. for 2-year ds, up to 21,556-lbs. atter a private test many of them with
 over $4 \%$ and up to 95, 8-oz. of milk in one day;among them cow the 2nd prize Dairy Test, both in standing and pro-
duction; also theherd duction; also the herd
won 1st prize for lardelivered to the Brantfiactory from any 15 cows. On gest duantity cream sale all trains fom any direction wil stop at Afford Jc. Station, where conveyances wil. TERMS:

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 fat. Grand dam has a record of 29 lbs . Calf is nearly ready for service.
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Riverside

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W. RICHARDSON

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King Canary Segis, whose sire is a son of King Segis Pontiac, and
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BRONTE, ONT.
50) HONTENS - I can supply a limited number of high-producit official backing. Let me know your wants, bred on both sides from higs official backing. Let me know your wants.
W. E. THOMPSON. R.R. No. 7. Woodatock, Ont. L.-D. 'Phome.
Hostein - Friesians - Bulls ready for service. Prices from $\$ 75$ to $\$ 150$, also. Prices $\$ 25$ to $\$ 75$. One with dam's record, 16.46 butter at two years.

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THE FARMEK'S ADVOCATE
Founumb ised

Questions and Answers. Miscellaneous.

## Sweet Clover.

Do you know anything about white or yellow sweet clover? It seems too bad for it to be making such a nuisance of iteolt along the roads is it is good for ted, as it will grow on the poorest of clay. Ans.-There are two varieties of plant known as sweet clover, one having a white flower and the other a yellow aower; one known as Melilotus alba, and the other Melilotus omeinalis. These
plants live but two years, and it seedplants live but two years, and it seed$\operatorname{lng}$ is $\begin{gathered}\text { provented should -not be bad } \\ \text { weeds. In the United States, and in }\end{gathered}$
In some parts of Canada, this crop is now Deing grown for feed, and judging from reports, with good success. In last week's issue of "The Farmer's Advo cate" there appeared an article by Wm. Linton. of York County, Ont., praising
this crop very highly. It is a coarsegrowing biennial, and must be cut early to avoid woodiness and preserve palatability. This latter point is noe upon which there is still difference of opinion in the minds of farmers and stockmen in this country. Stock must be educated
to eat it. but it is claimed when once they have developed an appetite for it afterwards they will alwass eat it It It has a high protein content. and if cut early should be a very valuable roughage
feed. It will grow on any soil, and has leed. It will grow on any soil, and haa considerable value Ror plowing under to
increase the fertility of the soil. We increase the ferrity
believe it is worth a triel. and intend, during the coming summer, to sow a lit
tle wat Weldwood to ascortain for ourthe at Weldwood to ascertain for ourselves and
real value.

Miscellaneous Queries.

1. A and B own farms side by side. Has B the right to cut trees down thai A has his line fence tacked to ? he the right to cut tree dowa line ha 3. Nine-year-old mare han (running) eyes, alternately, lasting about one month each. Referred case to my
veterinarian who said it was cold, and veterinarian who said it was cold, and
gave me treatment to cut coating ođ. gave me treatment to cut coating nd
This is the first trouble with her eypas. 4. Is the mare likely to go blind? 5. Are there any treatments? an Would alialia do well on gravelly
land, with good railway gravel underneath?

Would cement do to make a ceiling in a root-house?
Ans.-1 and 2. J. S. K. on the line? If the trees are on the property of $B$, it is more than likely that he would have the right to cut then down. If they are on the property of
A. he has no right to touch them is a mater which should be straightened out by the two parties, as trees of this kind. right on the line, and used for
fence posts, are of considerable value, and should not be cut down without a con terence between the two parties.
your mare has what is known as periodic ophthalmia. and it is also likely that the disease will develop, and that the mare will, in time, go, blind. It is a constibe prevented. All that can be done it in a partially -darkened stall. Kathe her eyes well three thmes daily with warm water, and atter bathing put a few drops
of the following lotion into each eye Sulphate of zinc, 15 grains: fluid extrac of bolladonna, 20 drops: distilled water
2 ounces.
4. As stated, the mare is auite likely 4s. As stated, the mare is quite likely
to go blind if the trouble continues.
G. Alfalla does beot 6. Alfalfa does best on rolling clay
land, but tit may do fairly well on the
gravelly soil gravelly soil. We would not hesitate to
try it it the land is rolling, but we seed. 7 and 8. Our root-house of Weldwo has a cement ceiling, but it is under the
barn approach, and the ceiling is the covering for the approarh, hut in this
way it requiles to be reinforced. We

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[^0]:    Len Jones,
    ohn Kemp, John Harper,

[^1]:    "How'd we give it to him, thour queried Mabel. "Put it in a basket and leave it on his "But a basket big enough to hold a pup, and a cover for it, would coot
    nearly nearly a dollar, and Judd Hope's pups
    are $\$ 3$ I am sure. are $\$ 3$ I am sure. I don't believe wot
    could scare up $\$ 4$ before Valentine's Day. no matter how much we try." ", Bob "Let's make a collection and see," Bob
    said. and when the collection had been made they had $\$ 1.75$. . The girls maid
    they could make up the rest of the $\$ 3$ Chey could make up the rest of the bas
    from their banks, but where was the bas ket to come from? "That's where it comes in." Len Jonees said, "Me've no money to gite, but inill
    dred learned to weave baskets from an dred learned to weave bagkets from nat
    old Indian woman who used to live next old Indian woman who used to live near
    door to us in town. Your Aunt Julia knows her well. So if you'll let us do our share that way, r'll go to Mr. Hom king' swamp for willows now, so Mildred
    Can make it this alternonn." ".Why, Len, you and Mildred are bricks through and through: we'll only to too glad to let you do it, and you can come. with us in the morning to buy the pup. With this arrangement,
    parted for dinner, feeling more lightparted for dinner, feeling more
    hearted than they had done since that valentine had been made.

    Valentine Day dawned bright and clear. To the children it seemed an ideal day. But to old Captain Ben, brooding all alone, it seemed to be getting lonelier
    and lonelier all the time. He missed and lonelier all the time. He missed
    the short, sharp bark of Pincher, as he gaily capered over the crusty snow atter squirrels, or the neighbor's cats; and the thump, thump of his tall on the floor as he lay watching his master, walking Four o'clock came, and made him feel worse than ever, as he saw the children worse than ever, 28 he saw the chidron
    hurrying home from school, bubbling

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