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JANUARY 29, 1914


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3 drum costs more to manufacture the pay no more fian the 2 drum, but you and get BETTER VALUE FOR YOUR MONEY. Yoll get heavier weight in the "Bissell" drums too

## The good points cannot all be told

 here. Ask your dealer about the2. mas ia niontione

$\sin _{-\infty}$ XIX.
EDITORIAL
The crying need of the city is more work and of the country more men, but it will take years for matters to adjust themselves.

Some of the cows will soon be freshening. Organize a vigilance committee and by careful testing catch the culls and discard them.

A good many people find the proceedings of the banking annual meetings more satisfactory
reading than the deliberations of Parliament.

The young -man who aspires to establish a home and a family in the city is finding the unillus. Quick and easy money making is the lure of that if the returns of the farm are less swift they are far more certain.

Business mien are "taking stock" at this season. Be one of them and take an inventory of keeping branch of farm operations.
Not how much was produced last year and at what profit but what was learned by experience
to aid to greater returns in the future should occopy the thoughtful minds just now.
$\qquad$
Farming has long been regarded as affording those engaged in it greater independence than fail this will be truer of the future than the past.
$\qquad$ get together one evening a week for a few weeks and discuss the problems of the community in
which you live? Community discussions are of ten the source of widespread influence.

The Toronto News has made a strong appeal for the thousands of that city to provide work der $t_{0}$ save them from starvation and preserve the good name of the city. The Globe joins in mont try to lessen immigration and take stover ward placing the people on the land. How to clear, there is another story. One thing seems land to stay there.
'Generally speaking, the farmer who can roll in wealth must either get himself into miraculingly thin." This and the statement that "A man is not necessarily richer because the wheat could be sold for twice corn he feeds his hogs fetched ten years ago' is part of a commend try for Agriculture in the United States recentAmerican by one of the most widely circulated stead of presenting an imposing statement of the to a discussion of means for improvement in both production and marketing, Not what was pro-

LONDON, ONTARIO, JANUARY 29, 1914.
Calling a Halt.
The published proceedings at the annual are reassuring in so far as they are an index of business conditions. But.through most of them runs an unusually strong note of continued agance. The President of the Bank of Commerce, Sir Edmund Walker, calls attention to a point, sometimes overlooked, that in time of stringency and rising prices, the prudent suffer to some extent with the spendthrift. Human interests are
so interlaced that penalties fall upon the innocent. He very properly cites the extravagance represented by motor cars, palatial houses, and social display beyond the capacity of incomes, and he might have traced the infection further among and towns, who are carried away with the cities and towns, who are carried away with the craze
for amusement. The enormous dividends and profits harvested by the moving-picture and vaudeville show fraternity reveal what a drain is going on daily and nightly upon the resources of multitudes who take no thought for the necescities of tomorrow as long as the craving for the sensation of the hour is satisfied. In ways
like these the earnings of the people. are frittered. away and then comes the winter appeal to the The Parliament of Canada, now in session, The Parliament of Canada, now in session,
would do well to heed the warning deducible from the deliverances of the bankers in regard to one of the chief causes of stringency, viz., as Sir Ed-
ward Walker puts it, ""the colossal expenditure in war and armaments and for many purposes which are useless from an industrial point of view." President David Coulson, of the Bank of Toronorly and pointedly called attention to "the inmense destruction of capital caused by the series of wars beginning with the Boer War and ending with the war in the Balkans, the large and inhoarding of money in continental countries as a hoarding of money in continental countries as a
result of the distrust and uncertainty engendered." Armaments, each conceded as necessary as a sort of world police system are yet a terrible
burden on industrialism and the rational policy of an enlightened statesmanship must be directed toward their reduction. This is due to humanity. What is the view of Hon. James Bryce,
lately designated a member of the British age, to which he lends distinction? The world has no truer citizen than James Bryce, nor one
whose knowledge and judgment is entitled to greater respect. He declares that the existence of immense land and sea forces upon practically a war footing increases the risk of strife and dianbefore the period that would otherwise elapse of nations fixed on the possibilities of war. He appeals to press and to people to throw their ;nfuence in support of the policies of peace and against those who engender strife. As a corres-
poudent of "The Farmer's Advocate" recently expressed it, the true policy of this peaceful new land of Canada whose foundation industry, agriculture, is handicapped for men and means, is the and the war spirit. The good sense of this cointry stands for the conservation and development history.

The Factory, the Farmer and the Cow.
Some striking figures relating to dairying were revealed at the recent Convention of the has been considerable discussion of late upon the changing conditions relative to Canadian dairying. Cheese factories have experienced considernels of outlet for the milk supply of the farm. The output of cheese from Eastern Canada this year was about 135,000 boxes short of that of 1912. This was accounted for by the fact that 1912, did not do so in 1913. When one considers there are nearly 900 factories in Eastern Ontario this does not seem such a large decrease, only about two patrons per factory, but when one looks at it from the other point of view and
knows that some forty factories discontinued the knows that some forty factories the changed conditions become more convincing.

A considerable quantity of the milk and cream which otherwise might have gone to the factories went across the border to the United States. It
is plain from these figures that the average dairy man is ready to sell where the immediate net returns seem highest.
One thousand six hundred patrons, making the change from cheese to whole milk or cream or possibly in a few cases butter in one season is a large enough number, when only Pastern Ontario circles. If this change continues the cheese industry in a few years will have dwindled very perceptibly. There is a redeeming feature, however, there being an increased output of butter manufactured in 1912 and the quality of the butter was much superior to that of former years. While goodimethods and cow testing have sue ceeded in raising the average production of the cow an analysis of the figures shows that the cows producing milk for Eastern Ontario factories
average only 3,274 pounds of milk yearly or 18.2 average only 3,274 pounds of milk yearly or 18.2
pounds per day. What must be the loss in the feeding of some of these cows which must show a production very much below this figure? It has been pointed out that while we have fewer production has increased 18 per cent. Given though this increase in production has been cbtained there is great room for improvement in most of the herds producing milk in this Province.
Three thousand two hundred and seventy-four pounds does not look like a very high yield be side that of the 10,000 -pound cow and is exceed-
ingly small when placed beside some of the yields made by cows forced to make and break records. But not considering excessive yields it should be possible to raise the average a great deal above
3,000 pounds. Five, six and seven thousand pound cows are not uncommon in many of the good herds of this country and by a judicious selection ing cows and from those which make even higher ing cows and from those which make even higher
records than this and which are at the present quite numerous, it should be possible if the right kind of sires are used to build up herds which would average up a great deal more than the
cows of Eastern Ontario now do. It would be far more profitable to keep half the cows at doufar more profitable to keep half the cows at lou-
ble the yield. This fact was pointed out to us

The Farmer's Advocate

## AND HOME MAGAZINE.

Fhe Limading agrictivitural journal in THE DOMINION.

## published werkiy by <br> THE WILITAM WELD COMPANY (LDITBD).

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adreso-THE FARMIRR'S ADVOCATEE or THE WILLLAM WELD COMPANY (LIUTTED),
london, canada
quite recently by a successful farmer in western Ontario, who believes in keeping good stock and keeping it well. He stated that he could keep on his own place twice as many cows as he is now doing, but that he could not do as well by them and he claims that he makes more out of he would do out of the larger number half starv ad and half tended.
There is room for great improvement in the breeding and caring for dairy cows. The average production has gradually increased, but with modern methods and care it should increase still further and a 5,000 or 6,000 -pound yield should not be the limit. What is true of Eastern Ontario is true of Canada.

## A Work Without End

Experimental work will never be completed. One who does not understand the possibilities of this work with respect to agriculture might think that in a few years there would be nothing left It is only duringters to discover; but not so. eral decades of the best work possible that several of the leading varieties of farm crops have been originated. It must have been a reveiation
to those not well versed in the amount of work that is being carried on by the Experimental Union to hear that no less than 72,495 distinct experments were conducted during the past season alone on farms of members of the Union in Ontario. One cannot estimate the value this is to Ontario's agriculture. Behind all this and forming the basis of it stands the experimental work of the Ontario Agricultural Coliege. Too much cannot be said in praise of the work of the tions thr at this college and at similar institutheir lives in endeavoring to produce varieties of creps which will out-yield any that have prebarley now grown in Ontario is said to be either barley now grown in Ontario is said to be either
O. A. C. No. 21 or Mandscheuri. A few years
ago neither was known to the Canadian farmer. They have yielded considerably more than the old-fashioned varieties and thus have replaced them. Now we are promised that O. A. C. No.
72 and O. A. C. No. 3 oats are likely to do for 72 and 0 . A. C. No. 3 oats are likely to do for
this crop what the two good varieties of barley have done for that cereal. Then there is the Marquis wheat, not originated at Guelph, but through the efforts of Dr. Wm. Saunders this good variety has been disseminated throughout the country. It is impossible to estimate the value of research work in varieties alone, but this is only a part of what experimenters are doing. Fertilizers are tested, different methods of cultivation tried and scores of other operations for the purpose of reaching the best methods for the average farmer on his farm at home.
All those engaged in the work should re ceive the hearty support of the farmers of Canada and of the Governments which supply the funds to maintain any further experimental re search work in the interest of Canadian agriculthorities. Prof. Zavitz, one of the greatest authorities on agronomy, said, we have too many evary reader familiarize himself with the varieties every reader familiarize himself with the varieties bave yielded highest grown on his farm which Provincial Experiment Station and on the farms of the experimenters belonging to the Union. These results should not be passed over hurriedly, but should be studied and acted upon. Fewer varieties and better varieties would be a good motto for the granary of the average farm.

## Nature's Diary.

It is not very often thet one picks spring flowers in bloom -just before Christmas, but this was the experience of my friend. E. J. Colgate, this winter. Near Toronto, on December 14, he found about half expanded. This plant is the true May而 other, a name which has been applied to many other plants in difierent parts of canada. In Ontario, the Hepatica is krown as the Mayflower in
some regions, and the Spring Beauty (Claytonia) goes under the same name in other localities. In New Brunswick, the common Blue Violet is often called MayCower


## Mayflower

The real Maytlower is a trailing, almost shrubby, plant, with the stems, leaf-stalks and mid-ribs are oval with are evergreen cordate (heart-shaped) bases, and borne in small clusters in the axils of the leaves and are very sweet-scented. It is one of the anest nowers to blossom in the spring. The May Hower has a wide range in North America, being found from Newfoundland to Saskat:howan and south to Kentucky and Florida. This species is a member of the Heath Family, to which be-
long the Blueberries Rhododendron, Bearberry, and the Laurels.

A winter visitor we are glad to welcome 18 the ed sub-species the Rocky and the Alaskan Pine Grosheak range Grosbeak adda from the Atlantic to the Pacific, broustry trees and up to the limit of winter and coming into the southern portions in winter.
Like most of our winter birds its visits to any locality are irregular, in some winters it to any pear early and remain until spring, or it may remay not make its appearance In other winters it
male of this species is a benutiten bird, vitig efl mine rod, paler on the abdomon, darker and atreaked with dusky on the back, with the winge ana tail dusky, edged with white. The winge
have two white bars. The female and
and male are ashy gray, paler bolow and anarked young brownish yollow on the head and rump. Their length is from eight to nine inches
While with us in the wintor the Pine Grise eeds upon a great variety of fruits and berriea Their favorite fare consists of fruits of the Mountain Ash, Nightshade, and Red Cedar, ant the buds of Maple and Spruce. Grinnel reports them as feeding in Alnska in September on Blueberries, Rosewhips and Cranberries, and in the winter on times on tender pine needles
When there has been a heavy
ion of these birds they a heavy southward mige til well on in April, and then the males mounto a tree-top and warble a rich but low and rather short song.
Speaking of the Pine Grosheak in Alaska, Grinnel says: "One morning, the 18th of February, found me across the river skirting the Wi--
lows in search of Ptarmigan. Although it fifty degrees below zero, a Pine Grosleak was the depths of a nearby thicket, suddenly lurse forth in a rich melodious strain. He continued, though in a more subdued fashion for several minutes. Such surroundings and conditions for a durd-song like this ! Again, one day in March, sang si:nilarly st intervals a bright red male from an alder thicket near the cabin, and as summer appronched their song was heant more and more frequently. Not until May 25th did I discover a nest. This was barely commenced, but on June 3rd, when 1 visited the locality exgs. The fain ogks. The amaie was incubating and remained eight feet above the ground on the nerizont lower branches of a small spruce srowing on the side of a wooded ridge. The nest wae a shallow affair, very much like a Tanacer's. It consisted of a looselv-laid platform of slender spruce twigs, on which rested a symmetrically-moulded sancer of pale Nile round-stemmed grasses. The eggs are dotted and snotted with possibe greenish tinge. and senia. The markings are very uneveniv dio tributed, the small ends of the egrs being nearly immaculate, while there is a conspicuous wreath about the large ends.

## Archie Bremner's Line Fence Dispute

Canadian journalism has yet to produce a par: agrapher as pungent, genial and versatile as the late Archie Bremner, for many years editor of The London Advertiscr." Older newspapermen can recall his ever ready-witted philosophy. For a long time his home was in one of the suburbs and next door resided a chronically cantanke individual never happy except when in acrap with somebody. One day efter dinner scrap sauntered for the Ofice with ald Aller ed at the regulation nele. But aik "Bon" was lying in wait for him leaning over his front
"Mr. Bremner, are you aware that your line "Well, no, to tell the truth lot
"Well, no, to tell the truth, I hadn't noticed "It is the dons answer
going to do about it want to know what you are
"Well, now," observed the imperturbable Ar-
ie, lifting his pipe from his mouth "if you ar going to move the fence just put it full six inches over on my lot and then there'll never be any
chance of troubl., chance of trouble. Arath there never was. Neighbor "Mone"s" risen and he discovered quickly than it had risen and he discovered a sudden engagement

## Living Up to Its Name

take for the farmers pleased with the stand 3 ou the name of your paper, "The Farmer's AdvoLambton Co., Ont. AMES BROWN.

The large cities are this winter swarming with the starving unemployed, but they decline to go done country where there is untold work unof little use on the land and not a few, like thetraditional tramp land and not a few, like the king that they may not find it-unless of a certain

## THE ANARMER'S ADVOCATET

A Monument to Enrolment
Editor "The Farmer's Advocate":
I noticed in the issue of Dec. 25th, 1913, your valuable paper that facts and opinions of several years to get passed by the best horsemen after one now in force in Australia. If the draft horses of Ontario will not compare very favorably with the product of any of the States or Provinces now governed by a "Red-Tape System" then some radical reviaion is istry is in jeopardy suggest that the grade or mongrel stallion, the unsound mares and the scrub bulls might as well be included, and be restricted from reproducing themselves. But I would say it would seem like a harsh measure to prohibit a good specimen o staniton that lacked a cross or two of being
eligible to record, or a cross-bred horse that was proving himself a good sire, and permit a imported or registered cull that would not make a good gelding, free to go on the road and carry a government recommend even though he was able to pass an examination for soundness. do not consider the government has any right, as
some suggest, to buy the mongrel or scrib horses some suggest, to buy the mongrel or scrub horses
or to remunerate their owners. as much money after castration as before sold under the hammer at any repository.
If the government appoints the inspectors chey should also pay them, grading the stalions 1,2 and 3 ; as some suggest, as to quality of individual, soundness and breeding, surely the stallion that would grade No. 1 as a stock. A s of vastly more value to a community than one that would grade No. 1 individually and sire a number of weedy colts. Then, if all the stallions are graded 1, 2 and 3 that are now in Ontario, the doors should not be left wide open to the importers, and everything in their hands should
public benefactors sime into oblivion withoad the if all the space is not taken wh they todrey land have the names of the the presence of the English sparrows in Canid also inscribed. fany-of the supporters or promoters of the Enrolment Act can point out where anyone, with the exception of the inspec to the extent of $\$ 1.00$, then everything said and acknowledge I have been looking at the wrong side of the picture. A meeting should be called in every county, and the representatives in Parliament have the wishes of every horse

## Middlesex

$\qquad$ ARTHUR F. O'NELL

## Weed Out the Scrubs

## Editor

I have noted with interest the communications re stallion enrolment, and although not wishing would identified with all the opinions expressed conspicuy that $I$ will readily endorse the most stands stands, is not effective. I was led to understand Government in-constructing the the Provincial the standard of horse breeding tot was to raise the standard of horse breeding to a higher plane compelling stallioners to hand over a two dolla bill in return for which they-receive a piece of paper with the name and breeding of their stal
lion printed on is more than I A horse may be a cummon graite can understand A horse miay be a cummon gradue scrub or he may to tramp our concession lines humbugring the farmers and leaving his trail of progeny behind If the government wishes to improve on the existing standard of our horses, why does it not make inspection compulsory, cutting out al horses that are not
pure-bred and as :those pure-bred which are found to be unsound, and
grading the sound pure-breds, accord ing to qualifications such as con-
formation and quality of feet and
imbs , etc., in classes one, two
and three, and see
ing that all. b i.118 and other advertisup by the owners tions. It seems to necessity is the extirpation of the
grade. Some, of
course, will say that there are graeding value than pure-breds, which but it will doubt
Anice but it will doubt such a grade is the offispring of an ex-
be graded and branded, and every horse that woulu not come up to the standard of No. $\mathbf{2}$ be excluded. Surely Ontario with all the imported
and Canadian-bred registered mares already here and Canadian-bred registered mares already Here could supply all the No. 3 horses required. If a small prescription would not hurt our Ontario breeders. The Enrolment Act somewhat resembles the
Education Department some years ago when deEducation Department some years ago when de-
siring to raise the standard of the teaching prosiring to raise the standard or the teaching pro-
fession in rural districts (with a growing demand for teachers in the West) they practically debarred the poor man's child from earning a livelihood in that profession, and which to-day has placed in the hands of the teachers the opportunity to demand a salary of $\$ 1,000$ instead of $\$ 500$ to $\$ 600$ without any alternative, and
have sidestepped
so often that both feet are have sidestepped so often that both feet are
badly burned. The only fair redress to dissat isfied stallion owners, if compulsory inspection and grading becomes law, would be to allow th stallion owners the choice of one of the inspec tors, the enrolment board one, and these to pick a disinterested 10 man. ine more suggestion if the $\$ 18,520$, part supplion some government the balance collected from the stallion owners last spring, is not at present all absorbed I think a monument should be erected in Toronto. the birthplace of this Enrolment Act and the would seem too bad to let the names of our
 cross. Before we are guilty, of such igross
rashness rashness
Ontario is not should stop and consider that pose the improvement of the horse my logislation. The western provinces as well as the leading horse-breeding states have taken the lead, and ll Ontario wishes to keep pace with the:progressive districts she must be progressive too.
selves the kind the farmers to choose for themselves the kind of horse to use, such a course would seem to me as ridiculious as placing locked. It is prison doors that were left untical and successful horseman who will a pracrecommend for use a mongrel-bred sire, yot there are scores of farmers who, through indifference or to save a few dollars in service fee, will breed their mares. to almost anything that comes along. As ioals from, good, pure-bred sires sell anywhere for much bigger prices than do foals
from either grades or inferior pure-breds, the government in undertaking such a scheme, where by this class of horses will be exterminated, will prove a benefactor and not a malefactor to the armer horseman
Let the governiment make fingection compulsory, inspection, that will inspect, that will cull
out the dross, and let them send the inspectors
at the government's expense, then it will be sare in the quality of our horses. Essex Co., Ont.

## Stop the Grade.

Editor "The Farmer's Advocate"
Since reading the letters in
Since reading the letters in "The Farmer's Advocate", regarding stallion inspection and enrolment, as a new one in the business I would
also like to give a few of ny opinions. I think the Act has only partly finished the work it started out to do. In this vicinity it has driven two grades out of business, but there is still one at large doing business at the rate
of ninety -mares a season. This latter trade might better have been given to a good registered horse, travelled at the same fee of $\$ 15.00$. Of course, this ho
lso approved. The part of the Act that "gets me", is why a
government, setting out to improve the horses government, setting out to improve the horses
of this province, should tax all stallion owners
$\$ 2.00$ for entrolment $\$ 2.00$ for enrolment when every other branch of agriculture is being advanced by experiments at great cost to the government. Let them also pay for, horse experiments, which no doubt would
like others prove expensive, and yet it would like others prove expensive, and yet it would some other lines. My idea is that it should
drive every grade stallion of the road, thereby drive every grade stallion off the road, thereby
compelling his owner to buy a pure-bred horse which would benefit the public and also the wner in the long run.
How would it do to
such a way that when an entire colt is registered his pedigree or registration certificate would be also his enrolment certificate? This would
shut out all grades, but would still leave the pure-bred scrubs, not uncommon either, to rul the roads with free grace. Yet I consider pure-bred scrub better than most grade stallions only for the breeding being pure, with which he is more likely to produce a finer specimen o hill ever be able to control the the governmen industry to any great extent until they own all the horses.
Like all other stallion owners I have cast my seven dollars to further the cause, and so far privilege of saying he is enrolled, and that I fulfilled my obligations regarding the Act. It doe not seem "value received" for the money nor yet
will inspection, with its chances in the hands of will inspection, with its chances in the hands of
these appointed men, really seem seven dollars' these
worth.
it would astandard to grade all pure-breds by proven at the vext various impossible, as has been out the province, when difference of opinion is from competition with grades it is about pure-breds can be expected, and the mare owners should judge the pure-breds.
Wentworth Co., Ont.

## Horse Stable Construction.

 ning to build a horse stable or many are plan one, a discussion of the matter may not be considered out of place or untimely.Many horse stables
built in horse stables, both new and old, are and if properly arranged bive good of the barn, Where expedient, we think greater satisfaction is given where a special and detached or semi-de tached building is erected. We will discuss the matter with this ideal but so far as the internal arrangements are
ried out in either

The site should be selected with a tow
renience and ensy drainage. the horse stable should be at considernite that in case of the other outbuildings, save This, of course, results in lack of convenience in procuring bedding, feed, etc., and also in loss of time, as when all buildings are connected it requires less time to attend to all the stock, and ings attached. The material to be used will de pend greatly on local conditions and the amoun of money the builder intends to spend upon the construction. In most cases wood is used, but and proiably a more durable building. If brick be used, the wall should be about 16 inches thick, with an air space. It concrete, it should be it blocks with air spaces. If stone be used, it is practically impossible to leave an air space, and line it inside with lumber to provide one. A air space in the wall tends to lessen the accumu lation of moisture upon the walls, thereby avoid ing the disagreeable dampness so often noticed in cold weather. Of course, if ventilation be per rect, there is little tendency to this trouble, but
it is practioally impossible to tion. Whatever material is used, the walls should be carefully built with the idea of warmth and comfort. If a stable could be so construct ed that the temperature would remain, in al Finds of weather, between 40 and 60 degroe Fahr. it might be said to be perfect in that re
spect, but we dorit think this possible witho artificial heat in cold weather and some system of fans in hot weather. Whatever material is used, the foundation should be of concrete or
stone. stone.
The question of size must, of course, be deter mined before the plans can be drawn. The nece sary size will depend not only upon the number commodation thescommodated, but upon the ac of arranging the stalls. Where space manne economized, a row of stalls can be made on each side with the horses facing the walls and a passageway of at least eight feet between. When space is not so valuable, a passage of, say, five stalls with the horses' heads facing this passage and a space of eight feet between the stalls and the opposite wall. The first system is no handy, as all food and bedding must be carried from the passage way up to the horses (as we do or mancers should bing hay from above into rack or mangers should be considered), and this in ad-
dition neeessitates
more sweeping and dusting in order to keep the passage clean. Where shace vill admit, we favor the second plan.
Having decided the number and arrangement the stalls required, we must decide the kinds and size of the stallis. Ats regards kinds of single open stalls. Double stall box stalls an commodate a pair of horses should mot to ac sidered, as it is unsafe to tie two horses in one tall. They may agree for years, but at any ime something may occur to excite them and they will fight with mouth and heels, often with the value of space again appears young or old, light or heavy, work or pleasur horse, will do better and be more comfortable in a box stall than tied in a single one, but, while we recognize the impracticability of providing the fact, that no stable, we wish to emphasiza completeness without one or be aid to approach more if possible, but at least one. It is necas sary in case of sickness, lameness, or in any casc where a horse accustorned to regular work is to
have a few days of idleness.
In the latter coses have a few days of idleness. In the latter cases.
it has a great tendency to prevent diseases


Horsemen at the Recent Guelph Winter Fair.
difforent kinds that are liable to result under such conditions unless the amount of food be mal-
terially reduced. When in a box stall, a horso terially reduced. When in a box stall, a horso healthy, idle and well fed is necossary in order to retain health. It is convenient for the pregsary during the later stages of prognancy, necesespecially necessary during parturition, and and terwards until the weather will permit of damand foal being left on pasture.
they cannot be too large, the large we may say ten by twelve feet is a fair size ther the better; eight feet is much better than none.

Single stalls may be towwide, in which case ing halter cast. At the same rolling and becong too narrow, which leaves too little room for, the groom to do the necessary work beside the hore in the stall, and also prevents the horse fiom ying in comfort. For ordinary-sized horses, more than six at least ive feet wide and not or very large horses may be smaller or very small cording to their specific purposes. Targer acshould be about nine feet deep, exclusive of man:gers, and the partitions should be strong and about seven feet high, especially in front, and celling should bwards to or five feet. The decided upon the number finds, high. Having rangement of stalls and pasages, the nend ar size of the building can readily be determined VENTILATION
Ventilation is a very important point that in many cases gets very little attention and is more ther, ventilation is not difficult, but in mild weavision involves a question of temperature. Proor the introduction of contaminated air and which air must be artificin air into the stable, fore or after its introduction, must either bePerfect ventilation consists in the removal of oul air as soon as it is formed and at the same air at replacing it with an equal amount of fresh cally impossible, and wertis something less than perfection satisfied with warmed it has a tendency to expand hence ir be comes lighter and ascends, and is replaced by ooler air, which either descends from above or bodies of the from below. The heat from the the lungs warms the air in expelled from with the animal hence this rangements are correct will escape from the stable. The problem then is to introduce fresh ing ithout drafts and without materially lowerit necessarily follows As heat expands the air, for its escape from the the spaces or openings what larger than those through which the some air is admitted. It is estimated that it requires about 25 square inches of space to allow entrance space allent air for each horse and that the larger. It and an outlet for ach be wise to make an inlet a number of each gives better results same time of each which by the estimate would be sufficient rent. There are many different systems of ture of One system to raise the temperaby an undergreund pip the stable is to conduct tance before reaching ther a considerable dison account of the cost and the fact This system, here be a wind to force air into the pipe through the cowl that stands up a few feet above he introduced commencement, insufficient air will cases there are several inlets on each siỡê of the building, two to three feet above the floor. If the bu lding be brick, stone or ave the floor. If also of wood. The a wooden building, they are is much greater than the space actually required and they are arranged with shate actually required the wind be strong those on the windy side can air can enter through thosed and the necessary Sigure as the outlets are concerned, it is wise to this about what capacity is needed and divide These are as many as is considered necessary. walls and in the ceiling should have an opening threose along the walls the ceiling and another at the ceiling. In some common centre just bese pipes are conducted to a where an opening of sufficient size extends through ture bit on placed that while it allows escape of the air it will not allow too free entrance of air in case is to have each pipe open individually just under the eaves. This practically prevents the en-


Sheep Breeders at Guelph, 1913
trance of cold air, as it is practically protected
from the effects of wind. As stated, there are many systems of ventilation, but all are designed opinion exist as to which and many dive best resulte DRAINAGE.
The site of the building is supposed to be such that drainage from the outside is natural or cas inside must be then considered. In most cases this is left to soakage of the bedding, and reaoval by fork or broom ; and when we conside hat this gives reasonable satisfaction and that any regular system of drainage is expensive and to trust to the former. A system can be ar ranged by having iron troughs behind the be or hey being covered by perforated iron flat pieces on a level with the foor. The doors of the tox stalls being hopper-shaped, with a grating in the to iron pipes, which, with the troughs, incline to a given centre, from which an iron pipe which passes out of the building and empties into a cesspool, from which the liquid can be pumpod into a wagon tank and drawn to the fields and it must be flushed out occosion system is used, forations opened up, else the wholl and the, perbecome clogged, as the flow of fluids is stem wil cient to carry with them the solids that enter. FLOORS.
Few horsemen will deny that wood is the best material for a horse to stand and lie on. Bricks impossible are very hard on the shoes and it is time, and if he has the habit of pawing he is very liable to injure his feet. In addition, unless bedding is plentifully supplied, floors of this kind have largely the to lie upon. Cement floors in addition the same objectionable points, and are probably the bery slippery. Earthen fioors possible to keep amnt of moisture, but it is yot possible to keep them dry and clean and avoid largely in one place it is not possible to keep it level. The ideal stable fioor consists in a cement passageeply creased in both directions in the passageway; the floors of the single stalls about covered with plank. front than behind and then also given a slight incline towards the box stalls way and covered with plank. The incline in either stall should not be greater than sufficient age. Have the liquids running towards the passage. He the floors as nearly level as possible. LIGHT.
Many stables are poorly lighted. There should parts thoroughly. A number of small windows is probably better than a few large ones. They
should should be on both sides of the stable, so high that when the sun shines the rays will not strike can be partially or wholly opened, either by sliding into the wall or hinged at the bottom, so air and wind and when those on both entrance of opened will create a draft that tends sides are temperature in hot weather and at the same lower the draft so high that it will not same time the There is MANGERS.
There is no question about the fact that the

A system by which good water can be kept
before the horses at all times is advisable, but
if this is not practicable, there at least shoutd be a vessel containing good water so placed that they can get a drink when either entering or leaving the stable.

PLACE FOR HARNESS. The ordinary system of hanging the harness posts is convenient, and while or on the stan able satisfaction it is better to have a dry and proper or even compartment outside the stable proper or even a closet in the stable. This progases that form, especially in poorly-ventilated tables. Both the leather and the mountings continue to look better and will last longer under these conditions. While probably the con-
venience of the ordinary method may venience of the ordinary method may warrant its
adoption for the work harness, there certainly should be a separate compartment in which to keep the good harness, whether heavy or light, new in the construction of suggested anything that the ideas we have given are the only, nor nes, nor even the hest, given are the only good cause prospective builders to think and acquire che knowledge they can before adopting plans.

## LIVE STOCK.

## Ventilation and Lighting of

 Modern Barns.
## ditor "The Farmer's Advocate"

The two all important subjects of light and of ours. During a short tour through Weste Ontario lately, the writer was surprised at th lack of proper ventilation and sanitation of farm buildings of all kinds. On entering some of these barns, on a cold morning, one is almos usually far above what it should be, or corres pondingly lower than what is right. If there should happen to be two doors in the stable, on often finds a pile of manure banked up to keap the frost out, a system that should be strongly never cleaned from one year's end to which err cobwebs, etc., and dust galore on every beam yet people are surprised that animals do rot grow faster, even under these adverse conditions It is interesting to note that 600 to 800 cubic feet keep the air fresh, and the amount required to state that in fifty per cent. of the barns in on tario this amiount is impossible and in some cases impracticable. Modern up-to-date farmers are seriously considering this problem and trying to improve matters in this respect. Old barns, new windows were installed, with the upper ansh hinged to swing in, thereby doing away with any fear of direct draft on animals, it would be bet ter than none. This system of ventilation is crude, the cold air receiving an upward thrust tends to condense on ceiling, and causes damp One often finds threeinch
placed in cement walls about or four-inch tiles often in winter these are stuffed with straw, urd ing away with any usefulness that they straw. do This idea of intake by hinging windows is a right up to a certain point, but in the majority than, possibly, a hay chute, which in outlet other


Some Swine Breeders Who Exhibited at Guelph
asually dogged with hay, and oven it not, the area is usually of such a size as to negative a,y or joists should be coiled with tongued and grooved lumber, especially underneath arive foor, If any, as an open floor forms all kinds of jut fitted, mode of good soesonted lumber, primed and


Fig.
palinted, and replaced every two years. Thin of otherwise.

The subject of cleanliness may be an' old one to preach, but nevertheless it loses nothing by beling repeatod. Theoretically spealding, from the amount of impurity added to the atmosphere by animals, each cow or horse, as the case may le, would require 3,000 to 7,000 cubic feet, but this foet motite be the emount simed ot ; in most

Nghter than rising as colder air rushes in, causen circulation all the time.
This now brings us to the question of outlot. The section of barn, Fig. 3, shows probably the best position for these. In barns, such as dairy barns, their outlet should be four feet from cun-
tre of barn, and zig-zagged, as in plan; that is to say, no two outlets ahould be directly opposite each other, but one every so many feet.

The abridged plan, Fig. 4, will show more clearly what is meent. The outlet fues are constructed of two layers of sheeting, with tar-paper or other air-tight composition. The main wall is composed of $\frac{f}{t}$-inch lumber, as tightly fitting
as is convenient with rough lumber, then a layer as is convenient with rough lumber, then a layer to overlap well at joints, then finish with good tongued and grooved lining, making as airtight as possible. This outlet terminates at roof in a ventilator of approved design. There are many
of these ventilators on the market, but I would advocate one with movable cowl on top (Fig. 6), varying according to direction of wind. Several of these are preferable to one large immovable ventilator. As previously stated, 28 square inches per head of outlet is the theoretical amount all that is required, so that it is an easy matter to calculate one ventilating outlet for each pair of intakes, or possibly one of sufficient area to three intakes, etc.
Another great feature in sanitation is the one of light. In looking at some of the older barns, one is inclined to think that the idea was that
darkness was necessary to improve health in stock. Fresh air and sunlight are two of the greatest opponents that tuherculosis has, and it is only right in this enlightened age, to try and isve up to these ideals. Four mquare feet of light by 4 feet window is installed for every three cows it will improve matters. My rule is to have a three-foot-wide window every six feet, thus mak-
ing a three-loat butt of concrete or stone betwee sach pair of whitdons. Windows should be designed with as fow antragals as possible, as every unnecessary astragal means Just so much more space for dust not be brought out square, but finithows the angle or round as per Itlustration No. 5 a also all rybats or jambs rounded, or splayed, it at all posifible. It certainly means a littlo more labor at the time of erecting, but pays in increas. ed distribution of light.

The question of lime or whitewashing is so of ten dealt with that it is unnecessary for me to that, in most countrios I may state in passing ture of the dairy business, it is comitan is a fenhave the walls a year. The following is washed at least wash and will not rub ofl : Dissolve two pounds


Fig.
of ordinary glue in eeven pints of water and whem potassium dissolved in a pint of bichromato the mixture up well, then add sufficient whiting to make it up to the usual consistency and apply with a brush in the ordinary manner, and a quickly as possible. This dries in a very thort verted into a perfectly insoluble waterproof substance which does not wash of even with hot ter, and at the same time does not give rise to


Fig. 2.


Fig. 8.
6ifec thowever, 800 is deemed suffeient. Fourteen square inches of intake and twenty-ei, ht square inches of outlet per head is probably the maximum, and for all practical purposes ton inches to twelve inches of intake and twenty
inches to twenty-four inches of outlet will be sufinches to twenty-four inches of outlet will be sufas in Fig. 1, would supply sufficient air for three animals. Fig. 1 fitows an inlet built of either tile or iron pipe and put in when wall is being constructed. Wire guairds are provided at either outlet to prevent either snow or rubbish falling
interfering with intake of air
Another, and possibly a better intake, is being censtructed by \& well-known firm. whose ad zine. It is composed of galvanized iron and theoretically, one of these ventilators is sufficien for three cows. Built in the wall, with bottom of ventilator at floor level, as in Fig. 2. This sketch. The main advantage is, the snow does not drift in so much, thereby causing obstruc tion to draft, it is easier to instal, does not have the same projection into passages or ontside wall, and is practically indestructible with ordinary care. This system of having the intake perts, the best. The cold air being heavier, keeps close to the floor until difused with foetid
air, which being warmer and air, which being warmer and correspondingly



Fig. 5
mold growth as whitewash made with size ofter by the It may be colored to any desired shace coloring, while by the addition of a small proportion of calcic sulphite its anseptic power much increased. JOHN C. COLTHART

Wellington Co., Ont.

## Our English Correspondence.

 ENGLISH LIVE STUCK TOPICS. 1018 proved a veritable Stock Show season of 1928 Aberdeen-Angus breed of cattle and its crosses. Scarcely a show of any importance passed which that breed occupying the place of honor, and to a greater degree than ever before perhaps has the cross between Aberdeen-Angus and Shorthorn lines of breeding dominated the cross-bred classes at the various shows. The greatest triumphs A pure-bred Aberdeen-Angus heifer was champion of the exhibition, and a black polled heifer by ${ }^{\circ}$ Shorthorn sire and out of an Aberdeen-Angue dam was reserve. Then the best steer of the blood, while the reserve to him was a pure-bred Aberdeen-Angus. A blue-grey by an AberdeenAngus bull won the championship for the best yearling, and a pure-bred Aberdebn-Angus was re
## D. Maria

THE FARMER'S ADVOCATE.
the championship rent to the carcans of an Aberdeen-Angue hoilor, pronouncod. by butchers to be as near perfection of roasting meat was extraordinary: The drossed carcass weight was 66.4 per cent. of deed to live weight. The re-
serve for the ohamplonship went to the carcass of e cross-bred bullock combining Shorthorn and
ond
ond
At of a cross-bred bulock. At Smithitild Show in
Aberdeen-Angus blod
the various classes for crosebred cattle there the various classes for crose-bred cattle there
were in all soventy entrles. Of these no fewer wore in all seventy entries. Shorthorn and Aberdeenalso shown in combinations with Devons, Red Lincolns, sussex, Red Polls, etc., on the block.
The butchers who bougat the Smithfeld champion The butchers killed it for their customer's consump, made the following
Obviously it is early maturity which is doing
The days of slowiy grown meat are quickly passing, and early maturity is the great aim of all enlightened stock keepers. By early matur-
ity is meant the capacity of stock to be ready ity is meant the capacity or stock to be ready formerly. The advantages of it are substantial. namely, the great saving in food and expense
owing to the reduced period of fattening ; the owing to the reduced period of fattening ; the
securing of bitter prices by the animals being年 money and having the space the stock occupied available for other animals.
Early meturity is promoted in stock partly
management and partly by heredity. Breeding from stock at a younger age than usual, and come under the first category; well them birth, consists in selecting the males from breeds noted for their capacity to mature early. It is not
diffeult to ascertain what breeds of sheep and difficult to ascertain what breeds of sheep and
cattle mature early, but one cannot select a ram cattle mature early, but one cannot select a ram
or bull for use in the fock or herd merely be cause it belongs to a quickly maturing breed, as it may be unsuitable in other ways for crossing with the animals in question. It has to be considered from what breed it will be advisable to
have a sire in order to tranemit his early maturing propensities to his offspring without dotriment in other ways.

THE LAMBING SEASON
We, in southern England, are in the midst of lambing, or nearly so at any rate. Old customs ing lambing pens varies a good deal, according local tramtions or requirement
The site chosen for the lambing pen should be a dry, sunny spot, and should be sheltered from straw are all the building materials required,
and these are quickly converted into cosy shelters. Very often the pen is built either which will afford the material for litter. For a flock of 500 ewes an onciosure of this kind should be made sufficiently spacious to ac
flock without too much crowding.
The greater part of the pen may be open,
while it will be found convenient to have the lambing pens in the interior, these being about siorming a square-that is to say, three hurdles
ormiging original wall or hurdle fence, and for cover two more hurdles laced with straw, or covered with
furze or other rough stuff to keep out the weather. Or another plan is to have around the inside of the pen small coops or compartments can be isolated if necessary.
In the eastern counties.
In the eastern counties of England a lot of flock of 500 ewes. At harvest time a stack of sentre oin che intended yard, and are threshed a week or two before the ewes begin to lamb. On
the coldest side of the yard is built a long stack piece can be cut daily for bedding in the pens. double row of pens, the two rows being parallel and about three feet apart. This double
row of pens must be set up before threshing the wheat stack. A large number of hurdles are required, and they should be wattled or have at least five ledges besides the back, so that the
young lambs may not get through to the next young lambs may not get through to the next
Den. A yard for 500 ewes will be fifteen hurd square, and if the pens are properly set
out there will, of course, be fifteen on each of the three insides of the yard, and also fifteen on ing accommodation for from 90 to 120 ewes, the three-fourths of a hurdle wide, this being found
A shower does not hurt a lamb as much as a continuation of wet, and if the roof of the pen
is insufficient, it will not only run with water after the shower, but will continue to "Ieak" over. and especially if it from hurdle to hurdle along the half of each
hurdle next the three feet space that extends be-
tween the double row of pens. The wheat stacls is now threshed, but the straw elevator is replaced by about three extra men, who build the rick, as it were, in the three foot space between
the double rows of hurdles, the roof being the double rows of hurdles, the roof being ex-
tended out over the kalf of the hurdles on each tended out over the half of the hurdles on each
side adjoining, and carried to a ridge, and is
carefully wind. By this down and secured against the the straw is preserved as well as if stacked in the usual way

Lambing cloths about 25 yards long and three leet deep are very handy, and can easily be hung
before a row of pens, and as easily shifted whe the wind changes. It is always advisable to find a fresh site each year. There is then no danger
from contaminated land. rom contaminated land. G. T. BURROWS.
London, England.

Artificial Fertilizers: Their Nature and Use-IX.
VALUATION AND PURCHASE OF FERTLL
rtilizer
The Dominion
e registration of every fertilizer offered requires as such in Canada. A registration number is given and this number serves as a means of identification, since the Act provides that the
guaranteed analysis, together with the registraguaranteed analysis, together with the registra-
tion number of the fertilizer for which it has been number of the fertilizer for which it has printed on a tag attached to the same. This measure affords the farmer a considerable degree
of protection from unscrupulous dealers, but, unof protection from unscrupulous dealers, but, un-
fortunately, many who purchase ready-mixed iortunately, many who purchase ready-mixed
goods do not fully avail themselves of this safoguard, since they examine only the price per ton and disregard the analysis.
The fact was recently brought to the writer's
attention that certain brands of ready-mixed fertilizers, manufactured by a firm in the United States, were being sold to Canadian farmers at prices ranging from 50 to 100 per cent. more the analyses, and in many cases the fertilizers were quite unsuited for the purpose for which they had been recommended by the agents of the firm in question. In view of this fact, it bebeing able to estimate the value of a fertilizer from its analysis.
Brand Names of Ready-Mixed Fertilizers.-In striking contrast to the farmers of Europe, who have long followed the practice of home-mixing,
our neighbors to the south of us purchase chiefly ready-mixed brands with more or less attractive names. The value (to the manufacturer) of a recent investigation by the $U$. $\mathbf{S}$. Government into the status of the various fertilizer com-
panies, by the fact that millions of dollars of panies, by the fact that millions of dollars of names. Do not allow yourself to be influenced by a name, nor imagine that "Jones' Excelsior Potato Fertilizer' is just what you want for your potato crop, nor that "Smith's Corn Grower
amine the analysis, decide whether the ingredients are in the proper proportion and then figure cut its value. To show that a brand name has no significance, we shall give the analyses of two fertilizers, each branded as suitable for potatoes, and both taken from the same page of the DomBrand No. 1.-2.87 per cent. nitrogen; 9.05 per cent. available phosphoric acid; 12.40 per

Brand No. 2.-2.09 per cent. nitrogen; 9.10
per cent. available phosphoric acidi; 3.43 per
cent. potash. cent. potash.
Brand No. 1 is a high-grade fertilizer, containing a large percentage of potash, which is the dominant ingredient in a fertilizer for pota-
toes, and, besides being adapted to its intended purpose, has a commercial value of about $\$ 35.00$ per ton. But look at the potash content of No, amount of potash contained in No. 1, yet it is also styled a potato fertilizer. ' Its commercial a potato fertilizer is much less, since it is quite unsuitable for that crop.
Although more striking instances could have been selected, the example suffices to show the absurdity of relying on a brand name as an iden tification of the fertilizer's adaptability to a cer
ain crop.
It has
It has already been remarked that purchasers of fertilizers often do not consider even the
analysis. Recently, in conversation with an Fissex County farmer, the writer was informed by
him that he had been using fertilizers, but with him that he had been using fertilizers, but with
indifferent success. On the writer's enquiring as been using, the reply wam: "Oh, but I couldn't
tell you that." Writer: "Then how do you
know whether it is suited to your crops and concnow whether it is suited to your crops and con-
ditions?" Farpmer : "Oh, the agent always ditions?" Farmer: "Oh, the agent always trouble ; too many farmers take the agent's word for it and the agent very often knows as little about the matter as you do yourselves; probably all he cares about is his commission on sales. different separate fertilizer materials, we of the ered only their percentage of nitrogen, arailable phosphoric acid and potash, but the statement of analysis, used to describe the average ready-mixed fertilizer, is much more elaborate. Besides the percentage of nitrogen, its equivalent in the form of ammonia is also given, while phosphoric
acid is quoted in terms of "water-soluble" "cit-ric-soluble," "sinsoluble"" "available" ani "cittal," and potash as "equal to" so much "sulphate of potash." The original object of this system can only have been to delude the farmer into the belief that he was getting more for his indicate.
We shall give here a sample of statement of analysis :
$\qquad$ Citric-soluble phosphoric acid Available phosphozic acid Insoluble phosphoric acid
Total phosphoric acid Potash Per Cent.
1.64 to 2.00 Eqqual to sulphate of potash 2.00 to 2.50 6.00 to 7.00
2.00 to -8.00 8.00 to 10.00 to sulphate of potasi .... 2.00 to 4.00 We can imagine the mingled feelings of a for mer when first confronted with such a statement. manufacturer, who can prepare such an elaborate bill of fare for plant appetites, alternates with one of despair of ever being able to fathom the meaning of the mystic symbols or the depths of the manufacturer's mind. It is small wondor his agent to tell them what they require:
man," but if se wish that "Clothes make the man," but if we wish for some purpose, to give a
man's net weight, we do not state it as follows Whaight with coat, we do not state it as follows \&
Wend trousers.... 160 1bs Weight with suit and overcoat ...... Weight stripped 170 lbs .
145 lbs . The latter statement is the only one required and the others are valueless. If, then, we procoed to disrobe the statement of analysis under and find:
Nitrogen ..... .......... ..... ...... ... 1.64 per cent.
Available phosphoric acid ..... ..... 8.00 per cent. Avallable phosphoric acid ...... ..... 8.00 per cent.
"Oh mighty Caesar I Dost, thou lie so. low ? Are all thy conquests, glories, triumphs, spoils

Small measure indeed, but it is the only part of the analysis which concerns us. Of course, it
must not be imagined that all fertilizer manufac must not be imagined that all fertilizer manufacturers adopt this ambiguous form of quoting the In fact there are many who would prefer the simpler form, were its general adoption enforced but since others use the more elaborate one, they do not wish their goods to run any risk of ap pearing at a disadvantage. Let us further ures, giving the higher percentages, may at once be dismissed from our notice. The lower percentages are those which are guaranteed and you may be sure the manufacturer will keep as close to these as his skill in compounding mixtures ammonia." Now, ammonia is just another to of quoting the same thing ; it represents nitrogen combined with three parts of hydrogen, and four pounds of nitrogen will be approximately equal to five pounds of ammonia. You will note "water-soluble" "cic-soluble" has been added to the whoric acid, which is the "available? phosWe find potash quoted as "we wish to know potash" and this is very misleading, since it $m$ ght that particular form that the potash is present in mat particular form, which it seldom ts ; the Last year the writer took this matter up
the Minister and other officials of the Department of Inland Revenue, recommending that the guar anteed analyses should be stated in the simplified this and the source of each ingredient given. In facturers posal several prominent Canadian manufacturers concurred, but
teration has been made.
analysis, the manufacturer quete his goods as a "two-eight-ten" or "two-eight-six," etc., meanng the percentages of and raia (usually, avail Veluation of a Ready-Mdred Fortilisor,-Tek

 in sit ton and, in this pound of acoh ibsgredient gen, 100 line, phosphoric acid (available) and to Ite. potash. IIf in our locollty nitrate of soda (ass pert oni. TV.) costs 880 oalty nitrate of soda


 potah 1.5 vantable phosphoric acid 6 cents and caleulation as follows

Nitrogea
Atrogen Pas. Acie

## 景

 . $00 \times 20=40$. $\times 4=9.5=9$Total value per ton mer, containing that this is a low-grade fertilcould appeal longy to the uninitiated on account of its low price. . Low-grade goods 'will never be purchased by "farmers who koods 'will never b handling. The unnecessary costs of freight and handling. The price of low-grade goods is always more per unit of plant food than the high ner too often selects his fertilizer by the far ithout regard to the analysis.
This argument will be continued in the next article. In order to follow the thread of the hand the back numbers of that readers keep on cate," in which the previous "The Farmer's Advo or reference.

## (To be continued)

## A Vitrified Block Silo.

Ansong the newer styles of silos in use in hollow vitrified clay blocks. "aThe Farmer's Ad vocate" has received particulars of one of these erected during the past season on one of these Thos. Jenken. Westminister Township; Middlesex Co., Ont., filled in the autumn and now being fed from. The blocks being glazed and being by capable masons it presents an and laid up pearance, and the galvanized roofing supported n pine rafters aids in preserving the silage, out in the best of condition. The blocks are 16 inches high by eight and a half inches thick, one way and seven and a half inches the other, so moulded in manufacture as to form a circle When laid. Each block weighs about 34 pounds. aach course of the large blocks is laid a course of what are called channel blocks, three inches high, through a groove of which are laid in inches which extend around the circinch by 1s the silo for strength. Around the circumiference of by the masons in laying the blocks, the was used ing begun 21 feet below the surface of the ground 12 feet. The 32 feet high with a diameter o sharp sand and Portland was made of good tions of three to one with a little lime adder About 55 blocks made one course around the circle. A door space was left through which the in light sections of two feet thre The doors ar feet five inches, and for strength inches by thre vanized iron piping were put in 20 inches apar across the door space. Each end of the pipe o bands, so that the wall is the steel reinforcing bith st so that the wall is completely encircled
witeel every 20 inches. Two were embedded 3, feet apart Two rows of bolts door space on which to fasten the chute
The blocks on each side of the opening are Two masons with to receive the wooden doors five courses per day. Not including laid about required for the floor about including what was cement were used. The vitrified blocks, reinforcing irons and pine doors and rafters were sup plaid down the company making the blocks at $\$ 288$ terials, mason work, teaming, and home labor involved would wring, the total cost up to labor
$\$ 400$. Mr. Jenken is well pleased with theut and the silage has kept perfectly to the the job, Owing to the large area of air space in the wall he regards it as much preferable to a solid wal or
wooden wall silo, especially in very frosty
weather. During the severin weather. During the severe dip of cold in frosty
ary the frost did not show through in trength and durability.

## The Cost of Carelessness.

## Dditor '"The Farmer's Advocate

A barn door blew off with the wind for want of being properly fastened on. The door was left around and one night a horse strayed into the barn and stepped off the hard floor on to the empty mow. He went through and was found dead next morning. Loss \$150.

- boar pig with ugly long tusks was allowed out in the yard. He went for a very fine registered mare, heavy in foal, and tore her badd. The veterinarian came at once, but could do nothing, and the fine animal died. Loss $\$ 400$.

A pasture-field gate was insufficiently fastened
and five horses got out, and strayed on to the railway track and were caught by the "Flyer" and killed. Loss estimated about $\$ 850$.
Another farmer had a poor fence and three of his horses got out and strayed on the railway track and were killed. Loss $\$ 750$
Still another farmer neglected to have his gate properly fastened and three of his horses track $\$ 600$ and were killed by the train. Loss about
Another man turned some of his horses into got on the road and wandered up to the railway cracks, being on the crossing when the "Flyer" wame along,
Now, reader, is that not a terrible list of losses? They are not imaginary but actually, six years. If we knew all the other losees, causd by barbed wire left carelessly around cutting of being properlys, by milk getting sour for want ould probably run up, etc., the total of losses all this loss was preventable. Because the And way company had not sufficient cattle ghe rail the crossing they paid for some of the horses cilled. In the days of horse-power threshing a to thresh ; at noon the neighbor came to help me leeding his horses, and he asked him. "Do man leed the horses that much oats every day ?" Mou Now replied, "Ah, but these bain't our oats." Now, although it was the railway company's loss of the horses, farmer's that paid for the carelessness that allowed the horse farmer's eway on the track and get killed. Every boar he cannot escape, ined in a strong pen from which get out, his tusks should he should accidentally This is easily done by blipe kept trimmed short, upper jaw and pulling him up to rope over his dehorning clippers the tusks can be easily Wit and killed ever How many people are maimed been dehorned. Efy year by bulls that have not and have a good strong ring in his be dehorned confined in a strong box stall. his nose und be helping farmers to make and very desirous of every lawful means, and that is the reason that every year by carelessness the great loss caused The beauty of carefulness altogether preventable. saved and made without and other person suffer ing the slightest liss. A great amount of money ness were properly carmers every year if the her ness were properly cared for. It should be wash-

been on duty for 80 yeara and, with a Uitle fix-
ing, will do service for a few years unore because it has been taken care of., if wagons and implements were kept out of. the wegons
when not in use and carefully cleaned painted every ten years they would last much down from a wagon 40 years old that were made they might last 20 years more. that look as if an old lady the secret of a certain farmer, cess and she told it in one word, carefulme ow, what are we going to do about it? A. we going to take warning by the losses of others and see that the like does not happen to us ? great habit of putting thegs off, saying, "Oh a will do that to-morrow." He was not very gh cessful, and one day he went into a friendin advice that would enable him to succeed bome The lawyer wrote a lines to succeed better. put it in an envelope and sealed it sheet of paper, the farmer to read it when he got home paid the fee, and when he opened the letter Ho read these words. "Never put ofl till to-morrom what you can do to-day." At first he was of work in earnest to carry out the ${ }^{\text {a }}$ few years his ambition to succeed was realised

WELL WISHHER.

## THE DAIRY.

## Watch the Oleo Game.

Dairymen and all concerned for the supplying of honest food products in Canada do well to be on the alert. The warnings in "The Farmer'e Advocate" for some time past in regard to de signs on the wise Canadian statutes prohibitin butterine, oleo, or other butter substitutes, wero none too early nor pointed. Talcing advantage market and concerning the cost of living, the newspaper was recelly departion cious pleas for the "'cheap." ." tasty ". '" the ap substitute, "harmlesely colored" sumer "could not tell from butter." The con was soothed with the reader where the oleo interests are entrenched stringent laws make deception impracticable a The benc ducts are would-be makers of the imitation pro to the farmer that his cut with the usual beit more per head through cattle would be worth $\$ 2$ to "oleo." These claims, that being turned inguise of news, have already been answered in these columns. By more than a answer century's faithful efforts, both public and private Canada has built up a reputation at home and are advised to lose no products and dairymen who represent them officially or in Parlisment nip in the bud designs either open or covert which would inevitably result here as elsewhere in the deception of consumers under the guise of at dairy farming which in time strike a blow ting upon its feet. The advent of is now get ducts would multiply the difficulties of agriculture, probably double the work and cost of inspecting the imitation butter traffic and put the ceo interests iny generally in confusion. The elsewhere they have widespread and strong and

## D. Maria

JANUARY 29, 1914
THE FARMER'S ADVOCATE.

How Successful Herds are Managed The dairy-herd competition conducted by the Wested at the time of the recent convention, when the awards were presented. It is interesting to know how those herds were managed that gave the best results and the following is a short de scription of how three winning herds were fed owners:
In regard to the care and feeding of my herd for the winter months, I may say the cows ar kept in the stable and groomed each day. The night; nothing is fed atmnoon, and the watering ${ }^{1 g}$ done arte
to te feed consists of silage, oat chop 150 lbs . gluten foed, oflcake and cotton seed bixan and time of feeding, along with good alfalfa o clover hay and roots, mangeis preferred.
The ration that I am feeding is composed of
the following: the following
Two liss. of oat chop and shorts mixed; 2
bran ; 2 lbs. bran; 2 lbs. gtuton feed; 11 1bs. oilcake; 11
lbs. cotton-seed meal; mangels, 20 lbs. silage $10 \mathrm{lbs} .$, it each feeding.
milking three times a day has a lot to do with wind winter care of the her has a lot to do with the summer milking, also in grain composed of oat chop and bran. I tur my cows on pasture about the 24th of May, feeding hay and some grain at night and morning.
also keeping cows in stable at night for a week With this method they do not mind the change at all. I also feed bran and oat chop or shorts eoding silage twice from about the middle of July. F. PATTERSON. Brant Co., Ont.
$M y$ present herd consists of seven veterans of the year 1910 and three younger cows, all grade Shorthorn dams and a pure-bred Holstein sire The three are from grade Holstein dams and pure bred Holstein sir
strain figures largely
Good clover pasture constituted a great part of the summer feeding. When this began to dry was ready and helped out the failing pasture quite acceptably. This oat pasture lasted until the first week of September, when sweet corn
took its place. Very little grain was fed during the summer months, perhaps about three pounds per cow per day. This was in the form of oat

We try to milk at regular hours. We stop the ther work of the farm a little early in order distant from that of the morning. in too far ways carried out this plan and it seems to be a good one. A good supply of fresh, cool well or hods quality of the herd, backed by these me the splendid troy reason I can give for winning this year.
JOHN W. VAN. SLYKE.

## EIgin Co., Ont.

Our herd is a dual-purpose herd, kept up part partly by buying what seem good-producing and whole milk for two weeks and then very them the alty change to the seeparated then very graduend of for or or five seperks the milk until at the
out, at which milk is left chap and forme they are eating a little cat calpes, with the exception of those heeded for and are fattened for the market at two to two that is not needed ord. To make use of the milk wo to three brood for the rearing of the calvos ters are fed the balance of the separated milk to-
wo and to have the heifers freshen at about liberally up to this years old. They have been fed heart at the time time and are always in good keep them milking of calving. It is my aim to milking first time. This trains them to a longer Most seatson than if they are let dry too soon May. We have not aimed in April or early in at this season. not aimed to have them freshen reshen warlier in the winter. There they would ways before them. In the cold weather they are
not turnater having Clirm bred very often and therefore we miss allow a cow to frearlier in the season. I never if she is in low flesh when in a thin condition. fed enouyh grain with when she goos dry she in her in prime condition. This
portant, $I$ and hay to puink is very important, because every good-producmg in oow will
fail in flosh when in full flow of mille.
are thin when they freshen they will soon weaken My success during the past season was per haps partly due to circumstances. We was perother cattle on the farm and as a result the cows point I pastures. Another very important field quite often. Another thing the anothe production and helped to keep the cows well ground oats, barley and of about two quarts ol came in for milking, and at each time they which is very important, the cows ather thing have access to a running stream of spring water fold which it is so arranged they can go from any I insist farm.
milking, with kindness, regularity and careful can go to at any time. Brant Co., Ont.
A. W. Van sickle.

## Two Dairy Barn Plans.

Herewith we are publishing two barn plans try. Number one is a barn which has been recommended both in this country and in the United States as suitable for an eighty-acre dairy arm. It is 84 feet long and 86 feet wide and, tied and provision is made for calvead of cows box stall. There is also a hospital which a large no cows are needing it, might be used for calves
wide. There is room to tie in the extension 50 a box stall, two calf proper and space for 11 pow, aied, leaving room for six horses tied 11 cows sized box stall and a harness room. The root cellar is in the far side of the barn and under the approach. This burn is suitable for a largesized farm and may be used as a dairy barn or as a general stock barn. Two silos are nlaced
between the barn proper and the extension between the barn proper and the extension and
the feed room is built in between these. This is a very good plan and one which may be used in building barns of smaller or greater size. The extension being separate from the main barn is is handy to both. The size of the stalls, width of passages and all dimensions are given on the plan. We would advise readers to look over these two plans and others illustrated in this issue and keep them in mind when planning their
now barns or remodelling old or remodelling old buildings.
In this larger barn the driveway to the seche matn barn. The grain bins are situated in this extension and the feed chute runs down from

## HORTICULTURE.

## Pre-Cooling of Fruit.

truit will be very much markets for home grown fruit will be very much extended by a system of
distribution which will place our small perishable iruits perishable hands of those the hands of those in the western pro-
vinces and northern towns, In order to do this the fruit nust be carefuly ars mist be the and well ventilated. countries, in other ing of ir are cool
ado
ingted in order to prolong the lifere to
the fruit. which gruito which is or young stock, and a 1 bull. The horse stable is plenty large enough tion for four this size, there being accommodalor colts or hrood thed and wash room handy in There is a feed room the illustration. This one end, as shown in barn and quite large enough for a farm of more than 80 acres, many 100 or 125 -acre farms not arrying more stock than may be comfortably Note in the basement of this barn.
Note the number of owindows, the provision tion of foul-air outlets and the general hacalayout of the barn. This barn could be used qually well for beef cattle as for dairy cattle and the plan is a very good one from which our hing building operations for the ideas in plan for the coming sum
In the second-lloor plan of this barn, which is ot shown, there is one large thresh floor ovier the horse stabie. The granaries are located over the feed room and wash room and box stall next cows is divided into bays.
The second barn is much larger and readera will note that there is an extension entirely separate from the main barn. This extension may be made any size. In this particular plan the while the extension is 100 feet long and 36 feet
gathered and rush

## Tre Farm

old storage does not stand up as well as frui which is brought to a low temperature through gradation system of precooling.
Fruit growing on the trees is undergoing conabout its ripening. After a cortain which bring these operations cease, and then the fruit is more subject to the attacks of fungus which from the trees and left in truit. is gathered the span of life is very much shortened and it is more subject to decomposition than whe th temperatures are used to prolong this span of

Pre-cooling is not a panacee for all the
troubles in connection with shipping fruit. the fruit is at all bruised or the fruit. II access to the fruit is given for the germs which cause decay, so in order to send the fruit for ward in the best possible condition too much handling. cannot be put upon careful intelligent
Extensive experiments have been conducted if re Southern States relative to the care of ranges, lemons, berries and many citrus fruits, esults fevorably to the they have culminated in When apples are being shipped system. nd sutumn and the cars are sufficiently iced ut in order tiated, no trouble should occur fruite to good advanitage it soems almost neces


Plan No. 2-Barn for a Larger Farm.
sary to have an extensive system of pre－cooling Enet

## Defective Grotches．

Broken crotches are observable sometimes in heavily leden orchards，and when the weight of the fruit has once borne the limbs down it is rather difficult to remedy it in that seeson．but trees the branches are probably back into their normal position．This defect is sometimes due to the weight of the apples，sometimes to the natural habits of the varieties，and sometimee the blame is due to the pruner or the man who formed the top of the trees．Before the foliage comes in the spring it is advisable to make a survey of the orchard and count and measure the defective trees．Oftenithe trees may be strength－ ened by chains from limbs above the crotches．
but as these limbs develop the chain is liable to to the growth．A better plan is to bolt zhese ordinary bolt purchased abt the hardware atore can be cut and spliced，leaving the large head on one end and a thread on the other to receive the nut．A spliced bit，in some cases，will also be considerable magnitude should be placed under the nut，and this can be screwed up so that the two parts of the trees will come together their normal condition．

The grafting season may be commenced early In the spring and it may be extended late int should be gathered during the early to be used fore the flow of sap starts．When these are firat． gathered they should be kept in soil in a dark place．Under these conditions they are kep fresh，and will keep over into the summer．The
most advantageous time to set these scion will be during the months of March and April．

FARM BULLETIN．
The two week＇e short course at the Nove Friday，Jan．16th．The enrolled attendence of 351，which is the record for the inntitution．wa this number about forty came from New Bruns wick，upwards of ten from various parts of Aus erica，and the balance from the Province of Nov ter of the work and enthusiasm the the chara 1914 stands out as the most successful of th series that have been held during the past to years．As time goes by one becomes more and more impressed，with the fact that the Mare and possibilities and that the movement toward thai improvement of agricultural conditions is gradu ally gaining force and will lead before many years pass to the Maritime Provinces taking the place which they were always intended to the among the foremost agricultural parts of Am

## Ottawa Winter Fair Has An Unhappy Ending．

What promised to be Ottawa＇s most success－ tul winter Fair was，in the brief period of a scoond＇s time，transformed into the most tragic calamity that has ever been visited upon any On the morning of January 20th，1914，the doors of Howick Paviion at the Central Canada phitition：Grounds，Ottawa，opened to the public．The Dairy Test had been completed，and the judges commenced their task of making the awards．The stock was all in prime condition， end the exhibitors were in high spirits．During the dey the sheep and swine were practically all judged，many of the awards had been placed on the beel cattle，and the competition in the horses was getting keen indeed．The night passed，but with the coming of the morning sun and aclvity in the builaing came the bursting of the boile in the basement，huring huge timbers alot， wrecking large structures，and transforming the lives of animals and men into mere history．It is needless to elaborate on what might have been，but suffice it to say that after the open－ ing of the Fair the accident could not have occurred at a moment when the loss of human life could possibly have been so small，and it seems that Providence timed an inevitable dis be farthest from a danger point
The outloom a danger point．bright． 900 horses oill with a grounds．This in itself was a strengthening leature of the Fair，and the number and quality was a topic for much comment on the clydesall were the all were well represented．The heaviest loser o Phe wher to Pepper，of Tiront，Nes ber of his Hunters．：R．Ness \＆Son，of Howick Cue．，also lost cosir Rir Spencer their aged stallion Clydesdales，but
came out of the thick of al
The cattle were a the horses most injury ocurred in the poultry pens，some of which were situated above the boiler

The dairy test was completed on Tuesday The dro morning belore andturbery stahles．The test was disturly satisfactory from a quality and production point of vie⿴囗十心 but the cold weather deterred point dien，from shipping their cattle Ottawa．who otherwise would have had then in the test．
The prize winner on this occasion was a Holstein cow，Daisy Posch，owned by W．J Bailey，Nober，Ont．，who won with a total score
of 259.09 points．The dairy test，determined by scales and Babcock test，has replaced the prize ring method of judging dairy cattle，as it brings
out all the possibilities within the cow，some of out all the possibilities within the cow，some o
which might not be recognized or discerned by a which might not be recognized or discerned by a
judge．The total number of points is made up judge．The total number of points is made up
from a certain number of points allowed for the

Ayrshire－Cow 48 Months or Over


A．S．Turner \＆Son，Ryckman＇s Corners ；White Flos Lbs．milk Por Total 3．R．Meharey Russell：Briery the 2nd of Springbank．． 4．R．Meharey：Barcheskie Helen．．．

## Cow 36 Months and Under 48

1．A．S．Turner \＆Son，Ryckman＇s Corners ；Wh ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 130.70
2．A．S．Turner \＆Son ；Pansy of Springbank．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 188.80
3．R．Meharey
8.4

Cow Under 36 Months．
1，A．S．Turner \＆Soni；Sppringbank Phyllis
2，A．S．Turner \＆Son；Queen Floss of Spri 1，A．S．Turner \＆Soni；Sppringbank Phyllis．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 187.40
2，A．S．Turner \＆Son；Queen Floss of Spring Maid．．．．．．．．．．．．．．．．．．．．．．．． 100.60
3．A．S．Turner \＆Son：Springbank Lily 116.80 3.5 .2

Holsteins－Cow 48 Months or Over
1．W．J．Bailey，Nober ：Daisy Posch．

252.10 Dowlar；Ossian Bell．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 36 Months and Under 48
1，L．Harwood，Vaudreuil，Que．；Mary Segis Reet 1，L．Harwood，Vaudreuil，Que．；Mary Segis Reet 3．L．Harwood：Lady Carmen Pontiac

Heifer 24 Months and Under 36


Heifer Under 24 Months
1．W．J．Bailey ；Ideal Daisy Faforit．
3，W．M．Holthy ；Francy Dutchland Hengerveld

4，L．Harwood ；Hit Loo Artis Pont
5，R．Dowlar ：Pet Posch．．．．．．．．．．．．．．．．．．．．．．．
6，R．M．Holtby ；La Fata Fayne Segis．．
Shorthorns－Cow 36 Months and Under 48.
1，Samuel Bray，Beathton：Primrose Maid
 Cow Under 36 Months
1，Samuel Bray ；Dairy Maid


2，Dowlar Bros．，Bellings Bri．．．．．．．．．．．．．．．．．．．．．．．．．

## ，T．A．Spratt；；Bessie．

Cow 36 Months and Under 48

## －BEEF CATTLE

BEEF CATTLE
The exhibit of beef cattle promised to be on systematic order when the explosion came． ever，the Shorthorns and Herefordame．How－ judged by John Gardhouse，of Highfield，Ont．， and the exhibitors and awards are given below： Shorthorns．－Exhibitors：D．A．Graham，Wan Ftead；Pritchard Bros．，Fergus；A．A．Armstron Fergus；T．A．Russell，Downsview；R．F．Duncan，
Ancaster；Wm．Knight，Jr．，Mull；W．A．Wallace，

## THE FARMER＇S ADVOCATE

## Wear： 1

Herefords．－L．O．Olifford，Oshawa，and A． Roynolds，of Elora，were the only exhibitors in helfer under one year and the remainder of the ther classes went to The judging of the beef grades and crosses swINE．
The exceedingly high prices paid for commer－ cial hogs and the attractive prices paid for breed－ scarcity so evident lall over the country was probably the chief factor in the decided falling gr in the entry this yoar，which was much below Wht of several years past in point of numbers． The quality，though，was fully up to the usual high standard so conspicuous at the Ottawa F＇all
and Winter Shows．Yorkshires were numerically the strongest of any of the breeds and some ex－ tra nice quality was out，exhibited by J．Feath－ erston \＆Son，Streetsville，Ont．，and Gramendyne Farm，Ottawa．Barrow，six months and under ine： 1 and Barrow under six months：Graman－ Gramandyne Farm； 2 and 4，Featherston．Sow， 8 months and under nibe； 1 and 2，Featherston； 8 and 4，Gramandyne Farm．Soim under six months： 1 and 4，Gramandyne Farm； 2 and 3， Featherston．Berkshires．－The only entry in E．Brien \＆Son，Ridgetown，Ont．，whose splen did exhibit lost much interest to the spectators from no competition，they getting all the awards． Tamworth．－In this class again chere were only Two exhibitors，E．Brien \＆Son and Gramandyne Farm．In．both the barrow classes，Brien cap－ ouds and thirds．In the sow classes，Graman－ dyne Farm had all the entries and received all the awards．Grades and crosses had the largest entries of any of the classes．Barrow，six months and under nine： 1 and 6，Featherston；2， Farm；5，J．MeK Fenzie，Beathton．Barrow under six months：1，8， 4 and 5，Gramandyne Farm；2， Pritchard；6，Featherston．Sow，six months and under nine：1，Gramandyne Farm；2，Featherston： 8，Gramandyne Farm；8，Pritchard；4，Feather－ ston．Three Export Bacon Hogs，－The quality of bacon hog exhibits was probably the best ever meen at an Ottawa show and reflected much credit on their exhifitors．Three pure－breds had an en－ try of eight lots of splendid uniformity and fit－ ter of registration，they were not judged on mat－ day evening，and the wrecking of the building on Wednesday morning by the explosion of the boiler， stopped all judging and ended the show．Thres grader or crosses in the bacon classses were judg－ dyne Farm； 2 and 4，Featherston；8，Gritchan－ 6．Ferguson． 2 and the Featherston；8，Pritchard； by D．C．Flatt，of Hamilton，with satisfaction to
all． SHEEP．
There was nothing left to be desired in the sheep exhibit，one of the choicest and strongest was most correct，the various show；the fitting istics seen in their perfection，they were judged by Col．McEwen，of London，with his customary ed by E．Brien \＆Son Cotswolds were exhibit－ Armstrong，Fergus．Armstrong，and A．A． on wother under one year，and 2 on three wethers under one year，Brien getting all the other awards．Lincolns had a much stronger repre－ entries made a close competical and well－fitted Jos．Linden，Denfield；John Kelly，Shakited by weth．A．Armstrong，the latter getting first on wether under one year and second on three weth－ ers under one year，Kelly getting third on wethyup awards．An exceptionden getting all the othor breed was An exceptionally choice entry in this Highgate，but owing to a mistake in enturing them in the name of E ．Brien \＆Son，they were quality and strong compete．Leicesters．－High in quality and strong in numbers，the Leicesters ham，Wanstead；John Kelly；A．\＆W．Whitelaw Guelph，and W．R．McDonald，Ridgetown．Weth－
er under er under one year： 1,2 and 4，Kelly； 3 and 5. Kelly；2，Whitelaw wethers under one year： 1 and 4；Whitelaw； 8 and 5 ，under one year：1， 2 under one year： 3 and 5，Kelly．Three ewes －One of the best exhibits of Oxfords seen in Ot－ tawa for some years was from the high－class flock of J．A．Cerswell，of Bond Head，and with ex－ year and third on class for wether under one Which went to An three wethers under one year， the awards．Shropshires，A hatrong Cerswell won al premacy came in the Shropshire classes for su－

Woodville，and J．of J．\＆D．J．Campbell，of the odds in favor of Campbell，of Burford，with one year and under： 1 and 5, Jones；2， 8 and 4， 4 ，
Camphell． Camppell．Three wethers under one year： 1 ， and 4，Campbell； 2 and 5，under one year：1， 8 and 4，Campbell； 2 and 5，Jones．Three 9wos downs．－Excellent fitting and superion quality was characteristic of the Southdowns exhibitity was Geo．Baker \＆Son，Burford；Iloyd－Jones，and A． Ayre，Bowmanville．Wether under one year：1， 2 and 8，Jones； 4 and 5，Baker．Three wethers un－ under one year： 1 and 5，Jones；2，Baker．Ewe， Jones．Three ewes under one year：1，Baker 4， Jones．Dorsets．－A．Ayre，of Bowmanville，had


The Wrecked Howick Pavilion
A view of a portion of the wrecked Howick Pavilio
Fair was boling held．
all the awards．Th same happened in Hatap had Long－woole entries and got all the awarils grades or crosses were not fully judged Tuesda evening，and owing to the boiler explosion Wed－ day morning no more judging was done．
POULTRY AT THE OTTAWA FATR．
The poultry department of the Ottawa Winter Fair is to be commended in spite of the unhappy utility are two outstanding features Quality and poultry exhibit and this year＇s assembly whole appeared like the consummation of an of birds make it useful as well as attractive and spectacu－ lar．In order to advance the genuine usefulness of what is generally a fancier＇s exhibit＂sales classes＂have been added to the prize list and scheme．The birds in these classes may be the chased by an ordinary poultry raiser at a price which one ordinary poultryman might quote or bid another．This makes it possible for a far－ mer，if he wishes，to obtain a bird or pen of new one．
The number of entries at the show has be surpassed on previous years，but the quality neen has been better．The strengthehing of the breed－ ing classes has proved beneficial and now it is a strong feature of the feathered exhibit．It seems nothing short of calamity to see so nice an ex excellence，


A Winning Calf Herd．
This excellent lot of Holstein calves are included in Hulet＇s sele

THE FARMER'S ADVOCATE.
FOLNDED 1860
sang was undor amball bird that futtored up and common here and often sing at such a height as to be invisible to the naked eye.
of the roughat legged variety and those hawks were with rou all winter are red-tailed hawks. Tio Mr. Yoore"s description I wish to add that they are apparently industrious mousers and should be encouraged.

Mr. James Marshall, of Wentwerth County, is the dempn rabbit I was laboring under a grievous irror. He has rabbits on his place and uver twelve thousand fruit trees and the rabbits hare tone no injury. I think the explanation is tha his trees are mostly cherry, plum, peach and pear, sark of these trees, but that they are fond of jrchands. that I see every day there are branches that were broken down during the November wy the rabbits. They peeled as white as bone y the rabbits. They seem to prefer apple-tree But I am told that they are also fond of mallows and where this weed is to be found will feed on it almost exclusively. Though the rabbits have not damaged any young apple trees on me, there roubled by them and a friend who has a large rechard in Virginia wrote to me some time ago raying that last winter the cotton-tail rabbits girdled and destroyed over five hundred of his poung trees. I am afraid the weight of evidenne reatures are pretty to have about they heve no sutstanding virtues that should lead anyone with in orchard to take chances with them.

There are several paragraphs in Mr. Marshall's etter which I shall leave to the editor to us olsewhere, but there is one that appeals to me so much I am going to quote it here. Speaking "A good mouse dog will clear orchards of nice. I had one that, while I was pruning trees cilled thirty mice in about two hours. This in another part of the orchard in was pruning, trees in another part of the orchard in frosty weather place to place and throw it down at the hole where he found the scent of mice and look at me Then I would walk to him and pick the frozen ground and he would perhaps get two field, mice. this way he caught about two hundred.
necdote reveals so

Toronto.
Receipts at the Union Stock-yards, West 118 cars, comprising 2,011 cattle, were hogs, 408 sheep and lambs, 72 calves, and 47 horses. The cattle trade was
very dull, and the prices certainly no very dull, and the prices certainly
bigher. Choice, $\$ 8.50$; good, $\$ 8$
 7 to $\$ 7.50$; stockers, $\$ 5.25$ to $\$ 6.50$; milkers, $\$ 60$ to $\$ 95$; calves, $\$ 6$ to $\$ 11.50$.
Sheep, $\$ 5$ to $\$ 7.35$. Sheep, $\$ 5$ to $\$ 7.35$; lambs, $\$ 9.15$ to 88.65 f. o. b. cars.

REVIEW OF LAST WEEK'S MARKETS The total receipts of live stock at the veek were: City. Union. Total.

telligence on the part of the dog that I am
tempted to ask readers to send me their best dog tempted to ask readers to send me their best dog dog stories to show that dogs can reason, but I do not think he has a better one than Mr. Mar
shall's. You would have to limit your definition shall's. You would have to limit your defnition
of reason to very narrow bounds before you c'uld say that a dog that would carry a pick for such a purpose was not capable of reasoning. Can anyone give a better instance of intelligence on the part of a dog? I have only one story to
give and, as I explained at the time it happerod, It is entirely puzzling. You may remember that It is entirely. puzzling. You may remember chat cel one night when returning from the village. It was missed before they turned the corner for home, so it must have been dropped some dishe would have to get up at daybreak and go back to look for the parcel, but at daybrcak Sheppy came to the door with the parcel in bis mouth. He was never trained to carry parcols and from that day to this has not been known to which is nother. Yet he went away from home, never been able to figure out how he came to do such a thing, for it is his one flash of unusual intelligence. I hope that if friends will go to the will give a little history of dog stories they gence of the dog. This sort of an enquiry raay not seem important, but dog stories always interest me and I think they may interest and amuse other people. Moreover, if we keep at serous things all the time we will get bilious. have been very serious for the past w
think that is what is ailing me to-day.

The Osler Holstein Sale.
The second public sale of pure-bred Holstein cattle at Lakeview Stock Farm, Bronte., Ont., was held January 20th. A crowd of abont five large sale pavilion thistein breeders flled the for the most part spirited and brisk, although at times it looked like a bargain day in heavy milkers. Colonel D. L. Perry, of Columbus, Ohio., was in extra good spirits, and his free run ly aided in the disposal of the thirty-one hat catalogued. Everything advertised was sold to the highest bidders, and on the whole prices were satisfactory. The eight-year-old Posch Inka Sylvia topped the scale at $\$ 325$, the second highest price being $\$ 310$ for the six-year-old lent records behind them, and are bred excel
averaged $\$ 104$ each, and twonty-three head with the buyers of all tho following is a liat with the buyers of all those selling above $\$ 100$ :
Lakeview Countess, John Richardson, Cale-
donia......... .............. ......... ...................... $82 e$ Hamilton Asylum Farm........ Dr. Engli............ 295 Lakeview Artis, F. Hamilton, St. Catharine. 295 Lakeview Valentine, K. R. Marshall, Dunbar-
Lakeview Hengerveld Aaggie 3rd, Mr. Follet, Saskatchewan...................................... Posch Inka Sylvia, Gordon Gooderham, Bo.. 200 ford Park Cherryvale Posch, w. \& Prouse, Tillson-
burg........................................... burg....
Canary
Canary Netherland, Dr. English.........................
Hamilton Asylum ( Bolbrook akeview Countess 3rd (twin), A. H. Teeple
Woodstock........... …........ ......... ..............
akeview Dutchland Hengerveld 2nd, W. G. 190
Bailey. Hamilton.................................
ton, St. Catharines
Cecil Wayne 2nd.......
Hakeview Countess Chase, W. G. Bailey
Hamilton
Hamilton ….. …....... ................. .....
Catharines
akeview King. Inka De Kol 3rd, R. W. Newton, Woodstock

Robbins, River Blend.
Arminta Canary, Biggar Bros., Oakville........ 265 Dunbarton......... ........... K. R. Marshall, Lakeview Beauty Hark, Frod Breckon, Mer-
 150
125 Toronto

## Lewis Toole Dies Suddenly.

ural retiring President of the Ontario AgriculMt. Alber Experimental Union, Lewis Toole, of his home. Deeply interested in advanced agriculture, he was one of the early graduates of the Ontio Agricultural College, getting his diploma of the Experimens instrumental in the founding ulturat Collowed closely the work of the Agrichosen calling. and the advancemente of hil own calling. He was a leader not only in his own community, where he operated a large !arm,
but in the agriculture of all Canada.

## THE FARMER'S ADVOCATE

##  Build a Reserve, Fund    exarpple to oform. <br> Sthci 1832 wo have provided the public asafe piace or or theidriunds. $\%$ sinterest, cocumpounded ed twice <br> The Bank of Nova Scotia   

## Buffalo.

## Cattle.-Cattle trade at Bufalo the part

 meok was somewnhat woaker, although ${ }^{\text {a }}$ generally satititactory market was had,tho weet showing lower lovels, and kinde of catle coming not moting tho demand
tor the well-anished
gracers.
Canadians Tore to very-ninghed graides. Chanadians ${ }^{\mathrm{ing}}$ over four or Ave Ioads from acrose
 tho weot, and the Eastern order buyers
came back and maind came back and maintan hed that they were
proving expenative, as compared with Chicago. tor the reason thampared they widid not show the percentage kill, and byyers in
tisted that they would have to get theed srades trom 1. Tc. to to 25c. lower, which price list Anally, prevalied. Some au-
thorithed the shipping steors coming now are not

 their good-weight sters and finish them
up right, ase the
the results more satiteactory. Generally spaketing

 Valueg, as compared with Western catile fuch the same, tew choice to prime steers
 ommener ones being Rofered, was a dime
 siven a little boost, orders being on file as high as for any thime during the year,


 soonding week, and last years for the corre-










## Montreal.

Live Stock- - Some very choice cattio





 ranged from $\$ 3$ to $\$ 15$ each, to cover all qualites. Hogs were 9ic. for selectso Some western stock ranged at 9 tc. to ${ }^{9}+\mathrm{c}$., weighed of carra
Hores. -There was very litulo change
in the horree market. Heary
dratet, velghing trom 1.500 to 1 ,roo iba, sold
 down, old animals, s75 to 8125 , and



 stock, sold at 14c. per lb., while country-

 Potatoes.-The market howed no change. Green Mountains wero quoted at 75 . to 800 . per bag, ex
rack, inscar lots, while Quebee variotiee
 higher, ex store. Bags weigh 90 lbs.
Honey and syuup.White- clover comb


 $\underset{\substack{\text { maple sugar, ge. to } 100 . ~ p e r ~}}{\text { Fen }}$ EEgs. Prices of oggs wero angin oatier
owing to the increased supplies of treat-


85c. to 80c.i. No. 1 candled at 30 c .
31c, and No. 2 canded
 ter. Chice mates, 2885., trade 200. per



 No. 3 were 41 c., and No. 1 yeod, $39{ }^{2}+0$. Flour-Manitoba irst-patent four wa
 ${ }^{2} 4.75$ to 8.85 tor patentar, and 84.50 , 8.4.0 per barrel, in wood, for straight

Killted. -Bran sold at $\$ 21$ per ton, and
 per ton for pure, and $\$ 27$ to $\$ 28$ tor mixeod.
Hed.
Her
Hap.-Prices were about steady. No.
preseded hay, car lots, Montroal,
ex presesed hay, car lots, Montreal, ex
track, $\$ 16$ per ton, while
No. 2 extre good was 814, and No. 3813.1 .
Seod. TTimothy sead was steady. Deal

 ${ }^{80.50}$ per busel.
 8.10 each, with horse hideas ranging (ivm ough, and 5c. to 6 j f . for renderod.

## Chicago



 צ8.10 to to s8.35; heary, 88.10 to 88.40 ;

 lambe, native, 86.20 to 8.8 .10 .

Gossip.
Attention is called to the change of atile, the property of wm. A. Rifo. The bull advertied in our Jannary 15th onsiders that for quick reantes The The Farmers. Advocate" giviee great batio-
Faction. action.

George Gier \& Son, breeders of Shorthorn cattle, inform us that they are
offering at present one of the very best frering at present one of the very best
roung bulls they ever bred-a beautiful oan, a year old next March-and not a Canadian cross in his pedigree except
Mildred's Hoyal. His dam is a grand Mildred's Royal. His dam is a grand
cow. a heavy milker and first-class cow. a heavy milker and first-class
breeder. Her ca:! in 1911 was one of the first-prize herd of calves in Toronto. ond-prize herd of calves. Any person in need of a young bull will do well to se

SALE DATES CLATMED.
February ${ }^{4 t h}$-T. H. Hassard, Mark-
ham, Ont.; imported Clydesdales and February 4th.-At Union Stock - yards Moronto. Annual ssale of Shorthorns,
Manager, Robert Miller, Stouffille, Ont February 9th and 10th.-Annual Com and Percherons, at Union Stock - yards Foronto.
February 11th.-A. E. Hulet, Norwich Ont.; Holsteins; dispersion.
February 10th.-Southern
ignment Sale Co., Tillsonburg, Ont
March 5th.-R. Nichol \& Son, Hager March 4th.-Annual Provincial sale March cattle, at Guelph. 1, Ont 1th.-G. H. McKenzie, Thorn March 10th--Norfolk Holstein-Friesian March 12th.-H. R. Patterson, Paris March 24th.-Bales Bros., Lansing
H. M. Vanderlip, proprietor of Thim
hurst
Stock Farim. Calnsvile, whers Shorthorn cattle and Berkshire pigs are sept, reports his stock wintering well, with a bright outlook for both breeds of
stocks. Through his advertisemient in "The Farmer's Advocate" he has recenty sold ten good sows and four boars to ada. J. H. Shephard, Woodstock, Ont., Chared the choice young bull, Elmhurst
Chancellor, out of Fliza (imp.), and sired by Chanicellor's. Model. Some grod young bulls, and a choice selection of
brood sows, are now befng offered. brood sows, are now beling offered.
Many orders are booked for spring deivery.
The, sale of Holsteins by the Southern sonburg, on Tuesday, February 10thpromises to be interesting in the extreme. There are 75 head of choice Holsteins for sale, and most of them are
in calf to the best bulls in Canads There will be absolutely bulls in Canada. troducing any disease into the herd through the purchase of this stock, as it
is all sold subject to inspection and the is all sold subject to inspection and the
tuberculin test. The cattle may be seen tuberculin test. The cattle may be seen chaser wishes, and the consignors will be at the Royal Hotel to give information
regarding the stock. R. J. Kelly, of regarding the stock. R. J. Kelly, of
Tillsonburg, will send a catalogue to any address, and everything will be done to give
sale.

Hodglinson \& Tisdale are consigning to the Clydesdale sale, to be held at the 9 th, their entire stock of imported and Canadian-bred Clydesdale mares, including the noted show mare, College Queen (imp.), a black four-year-old, supposed to be in foal, and good enough to show any-
where. She is a granddaughter Where. She is a granddaughter of Bain, a good brood and show mare, the mother of a fine filly to be sold. Miss Fotheringham (imp.) is a proven brood mare of merit, having raised two good
colts, one of which is included sale. She is again bred. Other choice mares of different ages are oflered. Cet a mare at your own price at this sale,
as Hodgkinson \& Tisialo are going to as Hodgkinson \& Tisdale are going to
conifine their horse-breeding operations to Percherons in future.

Duncan Brown \& Sons writo: "Since writing you last, we have sold to J. M.
Gardhouse, of Weston, Ont., a StandardGardhouse, of Weston, Ont., a Standard
bred mare, Queen Melrose, and she has done well for him in the show-ring. W
sold to Grant Collez, of Shedion, Ont Maggie C., which has certanly done well on the race-track for a young mare. We have one Standard-bred colt. Alvin think, coming one yot of, and will old, that we sonable price. In. Shorthorns, we sold one bull to John R. Gow \& Son, of Wallacetown, which toolk Arrst prize wherever shown; also sold one bull to Moore Middlemarch, a bull to A. McArthur, Lawrence Station, a bull to B. M. Gritfith, Thamesville: a bull to R. G. Reid, of Puslinch. All of those were got by
Trout Creel Wonder, and all the pin Trout Creek Wonder, and all the pur-
chasers are delighted with them. We have a few more, but they are young
Scottish Roses, Bruce Mayllowers, and Strathallan families.

## Trade Topic

Province by Province, the business con-
ditions of Canada were reviewed by Sir Edmund Walker the anial metins the Canadian Bank of Commerce, and while there is a spirit of optimism shown in- connection with each Province, refer ring to the period of "tight money" the
President said, "The world-wide deprecie tion of national credit continues, and nothing but a rigorous curtailment of expenditure, coupled with a return o easy money can improve the present con-
dition of affairs." With all the tightness, the demand for fresh capital is unabated, and this leads to the bellief that capital again accumulates in some volume. Money is likely to be dear, but to be yet, with any reduction in the volume of business, large sums may soon be diverted to the security market.


The Turn of the Road temp be By Anna Sterns mey bo $=$ long way to the turn in the The path may be rugged and heavy our Our hearts.
And sad with needless yearning.

> But some dappar
> Then will va
> Our hearts will
> And strength

The sky overhead may be leaden and
The wind cold and chilling. and dreary
Not a glint of
To relieve the day's dull seeming.
But a ritt in the clouds will some day The bright, eager sunt
Giving glimpses beyond of the clear azure
And a brighter to-morrow revealing.
Our hearts may be burdened with sorrow Too sad for a
prayer :
Dismayed at the troubles we meet every While our

But some day, faint heart, comes a tur God's love is so deep. His mercy so Teither sunshine nor storm can forever Fach one,

Then let's travel joyously, blithely along, With sometimes a prayer, and often And always, a lift for the weak in the Till we come

## The Passing of Lord Strathcona.

Aquare, his London home. 28 Grosvenor Royal, passed quietly into and Mount on the 21st of January, and Canada of her brigade of the grand old men who of her brigade of the grand old men who
have made the great Dominion what it is.
The immediate cause of the statesman's death was an attack of catarrh. although he had never recovered from the shock of Lady Strathcona's death in November his last public appearance, the occasion being a meeting of the Hudson's Bay Company, at which he presided: but until two months ago he attended his office very day, remaining often, as had bee His last visit to Canada night. ust, 1913, when he came to attend the
meeting of the American Bar Association in Montreal.
 Hon. Col. The Right Hon. Sir Donald Alexander Smith, First Baron Strathcona
and Mount Royal, philanthropist, capitalist, and statesman, was born in 6th, 1820, and when quite young entered the service of the Hudson's Bay Com-
pany as a cadet, coming to Canada in

Thirteen years of his life were spent on causes in Canada, were they related in
the bleak Labrador coast. then he was detail, would require page to themtransferred to the Northwest Territory, selves. In 1887, with Lord Mount where promotions were showered upon Stephen, he gave $\$ 1,000,000$ to butld and him. He became chisef factor, then resi- endow the Royal Victoria Hospital in the company in Canada, but it was the Montreal, following up the initial gift by
ther donation of $\$ 800,000$. To McRed River Settlement insurrection of IGill University. Montreal, he has given 1869-70 which launched himi upon the sea in sll, over $\$ 1,000,000$, whlle his wes the of public life in the Dominion. He was ap- honor of being the first founder of a pointed a special commissioner to enquire into the causes of the rebellion, and so great was the tact and ability which he
displayed in connection with the work that henceforth he was slated for prominence.
In 1870 he was returned to thy Legislature for Winnipeg and St. Joh And
was also returned for Selkirk The


The Late Lord Strathcona and Mount Royal
House of Commons, a seat that he re tained until 1880, when he was defated was increasing. In 1887 he was returned to the Commons for Montreal West, by a majority of 1,450 , and in 1891 was re-
elected by a majority of 3,706 . At the elected by a majority of 3, ion. At the
beginning of his political career, it is béginning of his political career, it is
necessary to remark, he was a supporter of Sir John A. Macdonald, but in 1873, at the time of the "Pacific Scandal," h
hent over to the Liberals, giving Sir John an independent support, however 1878 . Lord Strathcona's ability especially manifested itself in the pushing through Canadian Pacific Railway, and one of his red-letter days was the one upon which that marked the joining of the the tie that marked the joining of the C. P. R
rails from the East and the West at Craigellachie, B. C. one person to whose eflorts and to whose confidence in the growth of our country is due. is Sir Donald A. Smith," and it was in recognition of this that Queen Commander of the order him a Knight and St. George. Ten years later she
advanced Cross in the same order. and in 1897
raised him Strathcona and Mount Royal as Baron came a Fellow of the Royal Soci.ty be From 1896, at which time he was Canada as High Commissioner in Lonfrom politics, but his numberless chaty ties and his ceaseless devotion to the land of his adoption never ceased. In-
deed, the list of his donations to various

## D. Maria n

JANUARY 29, 1914

## THE FARMER'S ADVÓCATE

## Hope's Quiet Hour.

## A Great Company.

The Lord gave the word: great was
the Company of those that published it.-Pompany of thelii : 11.

## Gathering strength from every natio Every kindred, tribe, and tongue,

 Every kindred, tribe, and tongue, Hark, that glorious tide of song, Floods the valleys with its musi Echoes from the lasting hi ls, Onward, upward, till the templeOf the living GOD it fills."
"The Lord gave the Word," the Divine human lips in the quiet fields of Galilee and the narrow, crowded streets of
Jerusalem. His message-the Jerusalem. His message-the faith once
delivered to chosen witnesses delivered to chosen witnesses-has proved
its power to carry light into the dark

" The Loveliest of Raphael's Virgins."
This Madonna, by Raphael, was recently sold for over $\$ 500,000$, to Duveen Bros., of London, New York, and Paris. It measures $23 \times 17$ inches, and was painted in 1505. Since 1835 it has been in the famous Panshanger collection
of the late Earl Cowper, hence the name by which it is known, "The Cowper of the late
places of the earth. How is it to get had his head shaved in front, and even Whow "Howhal shall they hear without a preacher ?" missionary work, his health gave out and asks St. Paul. The Lord gave the word he had to return to England, but his and great is the Company of those who are publishing
Yesterday I heard a missionary speak of the wonderful changes which the Word God had wrought among the Esqui-
anax on Herschel Island, at the mouth of the Mackenzie River. He had worked there for seventeen years, shut in by ice during nine months of every year. He said that twenty years ago in body-as well as spiritually. Polygamy was common, and if too many girl-babies were born, they were thrown out on the snow
He said that through the knowledge of God's love in Christ the people had been transformed, murderers had become kind and aflectionate, the people were no longer disgusting.
bath was an unheard-of thing there twenty years ago, now they take their
Saturday bath and dress in clean clothes for the Sunday services. If no regular services can be attended, they' meet in a house for prayer. For many years the teaching, but suddenly-during the their four years-a great change came. The natives are eager to do their share in publishing the Word of God. Last year they contributed $\$ 600$ out of their scanty
funds; and when another tribe was disfunds; and when another tribe was dis-
covered, 1,000 miles away, twelve of them volunteered to go with a missionlove. They started good tidings of God' by the cold of winter. Next summer they hope to be able to reach those who
have not heard the wonderful news.
I have lately been reading the story of Hudson Taylor's fearless preaching in great discomerts mountable difficulties. He arenty insurous to reach the Chinese with his message that he became as far as possible
one of themselves. He wore thoir dress,
... And as to money, what fiight of liori and e hall have suggested a mill to prayer within filty years? in million five hundred thousand pounds, not dollers, put into their hands for the spread of the Gospel in China, and that without a collection or a single appeal for innancial help. . . . No, they only prayed and All that Hudson Taylor saw was the great need and the unutterable privilege of giving oneself, one's all, to meet it, in fellowship with Christ.
The Company of those that publish the
Word of God is not only great, it is inWord of God is not only great, it is increasing all the time. Those who gladly at home and abroad. Sometimes they are very unlikely messengers. On the 13th of July, 1909, the "Catch-my-Pal Society" sprang into existence. A Preaby terian minister in Ireland persuaded six men, who were. lounging near a lamp post, to sign the pledge. He told them
they could do far more to solve the drink problom in their eity than any six ministers. He sent them out to eatch men, asking each to bring another fellow the following week. They succeeded, and errand. At the next meeting thirty-one men turned up, and all went away fired with the idea of catching others to tak the pledge of total abstinence. The next meeting lound the new society stil There were 105 men growing rapidly " 67 new men signed the pledge that night, and among these were some of the biggest drinkers in the city. The scene was most hilarious as these men came forward to put down their names." Men Who had been accustomed to spend their
evenings drinking in varlous taverns, no only signed the pledge, but were eager to catch their intemperate comrades. They wore a button, with clasped hands across it, and new members were said to "take the button. Total abstinence became the fashion in Armagh, and men bought
beefstealk instead of drink. They began to go to church. The firat Catch-my-Pal Church Parade illed the church
to overlowing. Mr. Patterson, the founder of the newr. Pattersion, the lounder of the new society, says: have seen more gratitude in women's eyee
since July, 1909, than I saw during the whole of my ministry of seventeen yeara whofore that.
had gathered becaere the first sif men total Lamp." One known as "The Tee terson: "D'ye know, yir rivirfnce, who haven't taken the button Armagh they're afraid ov their lives to go near that lamp-post, for fear they'd catch the infecshun
Mr. Patterson went from town to town starting branches of the popular Soclety, which took so effectually in Lurgan thai I preached at the first church parade the Lurgan Branch. Eleven hundred men marched in a solemn procession through the streets to the church, and it was said that a publican who usually "took about fifty pounds a week, acknowledged that, on the Friday after the parade only one
counter."
In one town, 84 men were at the first meeting. These not only "took the butweekly meeting. caught 87 before the next more were brought in.
"About 130,000 men and women Joined land." declares Mr. Patterson, "隹 lieland," declares Mr. Patterson, "and at
most 500 branches were formed in lean than two years." At the first Annt versary Demonstration in Armagh, July 16, 1910, about 5,000 membere attended You see how soon the men who discovered that sobriety was a good thing tried to pass an thsir knoledre to
We have heard the Word of God, and we are bound to do something to pub-
lish it. Are we helping forward the lish it. Are we helping forward the kingdom of Christ by example, by money,
by words? If we are doing nothing to by words? If we are doing nothing to help the work, we are certainly hindor
ing it. It is everybody's business. ing it. It is everybody's business. Wo right to hug our religion to have no right to hug our reigion to text, as given in the R. V. read
"The Lord giveth the Word:
"The Lord giveth the Word:
The women that publish the tidings are
The women that publish the tidings are
"Speak Thou for us, O LORD, According to Thy Word According to Thy Word

DORA FARNCOMB.
The Ingle Nook.


## Madame Curie.

 Whem writing about Helen Kelier, I man- tately wonderful, Helen Keller, ber Curie, of Parise so. heving told some. thing of the first two, it sems natural to tura to Modame Curle.
she we bora in 1866 ,
two daughtere in 1866, the second of two daughters, in the home of M. Sklo-

Parhaps Warsan did not pay high malaries to it professors, or perhaps, as Is quite likely, Professor Sklodovaka spent much of his income in prosecuting
original investigations in chemistry. At original investigations in chomistry. At fin the little Polish household, and so, at have been playing with their dolls, the Hittle Marie was required to work with her father in his laboratory to save the ealary of an assistant." Those who thought it "hard" that the child should have been thus obliged to busy herself with
tubes and retorts and chemicals and long names, but the path to great an original work is seldom easy. Had it not been lor
doubt, interesting days, the world might never have heard of Madame Marie Sklo dovke Curie.
When Marie was fourteen years of age,
her father died, leaving -his daughters her father died, leaving his daughter practically penniless, and forced to make
thefr own way in the world. The elder cheir own way in the world. The elde
oventually studied medicine and became a well-known doctor in Austria, but the mysteries of the laboratory, with its promise of wonderful revelations and transformations, beckoned to Marie, and even then she determined to follow in
the footsteps of her father. The only trouble was lack of funds, and to secure trouble was lack of funds, and to secure Russian family, hating every minute of the work
Slowly
Slowly the little hoard increased, but before it was nearly large enough to
offer security, an unlooked-for occurrence offer security, an unlooked-for occurrence
brought a new chapter into the girl's Hrought She had had, it appears, some
Hifenection with a somewhat revolutionary club, and the possibility of her be
ing called as witness against students Ing called as witness against students who were members of it seemed immi-
nent. To avoid the ordeal she fled to Paris, and at the next turn of the whee Latin Quarter-that rendezvous of struggling ambition and slender purses-in a In the hallway before the door, froze in Its bottle. The room contained a chai
and cot, but no table, and the dejecte and cot, but no table, and the dejected
girl who occupied it, looked cold and
colorless as her surroundings. "At no time during her residence in this bare and frigid garret," we are told, "could she afford herself such necessities as an
umbrella or an extra pair of shoes. Her diet was bread and milk for so long that, as she remarked with reference to this
experience later, she had to acquire a taste for wine and meat. Its opportunities, was within reach, but
the young student could not afford to so there. Indeed, for long enough the weary days were apent in a irutess
hearch for work by which she mignt earn
From door after door she her living. From door after door she
was turned away, then at last she was siven the pitiful privilige of preparing laboratory. and botties in a large
week her wonderful ability had attracted the attention of Professor Lippman, and her progress at the municipal working-
class technical school confirmed the idea class technical school confirmed the idea
that she was no ordinary student Finally, Professor Lippman introduced to her II. Pierre Curie, a young professo of chemistry who eventually engaged her
as his assistant.
Henceforth there was congenial work for the brilliant young Polish girl, and she was no longer obliged to live, as she had been, on an
expenditure of less than ten cents per


Madame Curie.
pinquity ast inevitable happoned. Fropinquity and similarity in tastes and Curie that the light of the new aplection first dawned. One day he asked the scientist's soul to be his wife, and it was perhaps characteristic of her that
the first thing she did was to flee,


Madame Curie, with a group of distinguished scientists. The photo was taken Science, at which time a doctorate was conferred upon Madame Advancement of
Curie Wiversity of Birmingham. Those standing, from left to right, are: Prof. R. of Leiden, Holland; Prof. Svante Arrhenius, of the Nobel Oliver Lodge sits at Madame Curie's right (the man with the beard), and Prof. straight to Poland at that. "At the In the same year athe Royal straight to Poland at that. "At the In the same year, the Royal Institute
thought of permanently leaving her coun- awarded them the Davy medal for re-
try," it is explained, "all her love for search, and Sweden faver it had flamed up anew," and so she between them and Becquerel the Nobel long before decided to devote her life to prize for chemistry. acience. He, however, was not to be so Curie the Cross of the Legion of Honor, loneliness, and spoke with such vision of but it was declined. In the words of the life they might live together and the how he refused the honor because a Work they might accomplish, that her lar decoration was not offered to his heart was touched. In just two weeks wife." About the same time, however,
they were married.
the slight to the lady was, in part, re-
was a tiny cottage at Sceaux, nine miles
from Paris, but they found that so much time was lost going in and out on cars that they soon removed to the Rue de la Glaciere, near the School of Physica and its laboratories. Madame Curie, by the
way, was the arst woman ever permitted to use the latter.
Here the husband and wife studied and experimented, side by side, sometimes toone day in 1898, Madame Curie, following up indopendently a period of joint study with her husband on the radioactive properties of uranium, discovered by Henri Becquerel in 1896, showed her
husband a substance she had succeeded in segregating from pitchblende, an oxide of uranium. So wonderful was this that M. Curie immediately dropped all his other experiments to help her, and, after some months work, between them, they managed to extract a single grain
of another more mysterious substance, which glowed in the dark, and gave of heat without growing cooler or smaller, radium.

Quietly the discovery was announced, and immediately the scientific world was ell egog. Other brilliant minds set themselves to work upon the wonder. It was
found that the substance emitted mysterious rays that acted destructively, upon tissue, and some of the experimenters
gave up in terror of their lives. Others. however, persevered, and before long radium was found to have a deatructiv effect upon cancer tissue as well as any other. It was hailed as a cure, hypothesis which seems to beadil gaining firm ground, and honors poured but their own.
In May, 1903, the Royal Institute of scientist, Lord Kelvin, inited them lecture, and hence it was that in England they received their first pyblic applause.

Madame Curie, with a group of distinguished scientist W. Wood, of Johns Hopkins University; Prof. Henrik Lorentz, of the Universil ut it was declined. In the words of a
biographer, "Paris has never forgotten
given to her, and hencelorth poverty me
M. Curie, it may be mentioned, one of the lecturers at the Sorbonase and now invitations to lecture elemphore, professor, but also his illustrious the With characteristic modesty, however, the two steadily refused the latter invithtions. Upon one occasion only did they yield, and that almost onded in disaster.
That was when the Shah of Perais vieried Paris. He was permitted to vialt into the hall of the myatery and hear about radium, but when the glass jar containing the bit of wonderful glowing substance was brought into the darkened
room, he became frightened, and in room, he became frightened, and in hif excitement upset the table, spilling out radium worth 830,000 , buis, not only sult of a period of infinite labor. protected radium, too, was, because of its elin rays, none too safo a wanderer to be about, 80 no wonder the occurrence caused consternation. Overwhelmed bs mond ringe and offered them on hie diaof the loss, but before long the capeule was found and serenity wes restored, the delighted Shah insiating on plining hie orders to the gown of the embarraseed .

On the 19th of April, 1906, M. Curie was knocked down by a dray in Parle and killed instantly, and henceforth Madmene Curle had to take up the burdem
alone-the burden felt by overyone of originality that he muat give that whicb the possesses, or can evolve, though by bloody sweat, to the world.
She was given her husband's chalr at the Sorbonne, and, after some hesitetion because of her ohyness, accepted it. est room in the building, but before longperhaps not altogether to her plensure, she found Paris flocking to her lectures, butterlijes of fashion, as well as men of science, and upon occasion, even royalty tself.
"In a voice quite low and free from the biographer, "Madame Curie olucidates to her Sorbonne classes the mysteries of that new knowledge which she hes mas tered, but which has not mastered her. Her manner is as cold as her aspect.
She never waves her arms, long and they are. She ly about her desk as did that genius of physics, the late Professor Berthler. She announces the most wonderful and least expected of developments with the mat er-of-factness of a business man reading accents betray her Polish origin, but she expresses every idea in perfectly idiomatic French. In
of exposition she ts unsurpassed.

Henceforth the life of Madame Curie was divided into two parts, one part of the Sorbonne, the other part in the the care of a cousin from where, under the care of a cousin from Poland, her been growing up. Private indeed is that home. It is surrounded by a high wall, mitted to pass beyond the outer gate. Those who are so privileged, find that
when out of the laboratory Madame Curie is a thoroughly domestic wonan. She teaches her daughters, one of whom
has a decided inclination towards science. She has made their clothes and knitted their mufflers. She is an accomplished marketer, and even yet, it is said, washes and irons with her own hands hy the members of her little family."But we must return.

Since her husband's death, Madame chief has made valuable discoveries, of polonium, called so after her beloved Poland. Something of the propertles of polonium was known before radium itself, Professor Rutherfandormation, but, aill says, "It was, however, the frat of the active aubstances separated from pitehous residues by Madame Curie. Varl ous mothods of
thons of polonfum mixed with blsmuth Tere early obtained, many thousan
umes more active than uranium." Polonium is much more difficult Polonium is much, more dimcult to ob-
tain than radium, because it breaks up Ave thousand times esester, nevertheless Madame Curie succeeded in obtaining weighable quantity of it in a pure state She and Professor Debierne have also
working together, succeeded in producing helium from a preparation of polonium. It may be interesting here to mentio that âve tons of pitchblende were treated with hot hydrochloric acid in isolating the one-tenth of a milligramme of polon lum first obtained by Madame Curie.
An 1911, Madame Curie was refused admises was a woman; but other countries, Russia, Sweden, England, and America, hastened to elect her to membership in their academies and chemical societies. In 1912, a convention of famous acipointed her to prepare for the use of laboratorlen everywhore, the international standard of radio-activity. In 1918, she was awarded the Nobel Prize for achieve ment in chemistry, and so has been, so coive ony per prinee the world to re ceive University of Birmingham conterred Soctorate on her. pale, quiet roman coes on thinking and doing, and the world has not heard the last of her yet. She jots down in her note-books, from time to time, daring theories, and, if she premises. more one learns to recognize in Madame Marie Sklodoveka Curie, one of the most remarkable women the world has ever

Economy in Dress.
Miss Rowena is not pretty, but she is
"cute," a slang word, but a very exprescute, a slang word, but a very expres-
sive one. She is, moreover, a girl who
looks invartably well - dressed, -wellgroomed, immaculate, trim, without be Ing too trim, and above all things, al
ways dressed for the occasion. She never goes to church in an outit that makes her look as if she were arrayed for party, and she never goes to a party in
a. shirtwaist suit. When she takes an outing she looks like a regular outdoor
girl, and when she makes a call she looks girl, and when she makes a call she looks
just the bright little lady she can be on such social ventures.
To "cap it all." Miss Rowena is said other girl on the street. Indeed, she admits the fact, and admits it triumph-
antly, so she was not at all offended when we asked her bluntly how she man ges.
Indeed, she laughed in an amused way, as she plopped down into a pile of
cushions and made herself comfortable for her "lecture," as she styled th. querted
"How do I manage ?" she qued "Well, I don't know whether I always
look just right. as you say, but I do look just right, as you say, but I do
know that I have to 'navigate,' and is my experience is worth passing on, why "In the first place, as you may notice, and summer I wear chiefly blues and white; they suit me, and look cool in hot
weather. When fall comes I rather inweather. When fall comes I rather into go with the autumn coloring every where, and are good warm colors to wear right through the wintor. You see, one or two colors in a seasom; one hat one pair of kid gloves, and so on, may
be made to go with all the clothes one has. Maud Adams, I have heard, during gling for recognition-and dollarg-kept to just black and white. She found Of course, I do think one should fix upon Whatr-skinner is most becoming. Gray suits is a good, quiet color pink cheoks, and girl, you know, must always rely upon for the quiet shades for the background, touches of red, and rose, and reyal blue, and yellow and burnt orange, in amall unusual eolors for thole to choose odd or
may be,- $\mathbf{Y}$ mean, of course, unless one Sylvia Lennox. Three years Now, there's a lovely amethyst dress; I do think amethyst is a lovely color. But, dear me, she's worn it every spring and fall aince, and now it's fairly shrieking its age. It's the same with old rose, ga
net, and some of the pretty at, and some of the pretty greens. things, if one has to be careful about spending. It pays. A good piece cloth looks well as long as it lasts; poor one looks like cheap vaudeville next to no time. I wear my suits a long time, freshening them up towards collar and cuffs, maybe. I'd rather have good cotton than cheap silk any day good cotton dress looks well even after two summers' wear; a cheap sille looks cawdry by the end of the first season, cut, maybe, and spotted. Cotton dresses may have
"No. I spend very little in trimming. rd rather put the money into material Thank goodness, trimming doesn't count count, and the best-dressed women see best style' in plain things not all broken and spotted by meaningless dabs here good lace near the throat and at the odges of the sleeves, but then good lace an investment. You never grow tired of it. I don't take much stock in the constant changes of extreme styles in neckwear that one sees, in the shops Arat, them on every other girl (or more)
on the street. For instance, lest apring everybody was wearing a Robespierre collar; by fall there wasn't one to be eeen, and the whole flock, 'like sheep,' had run to net frills around the neck of their coats. Or course, the manufac turers are at the back of such fads; one can spend a lot of money on them, and keeps to a bit of good lace, or to pretty collars and stocks, never looks out o atyle at all. In lact, I think she looks rather distinguee because not like every Chiff else.-And $1 t$ so much cheaper very perishable. Anyway, they 'go out very perishable. Anyway, they 'go out. Extreme things always go out soon. Who wears a Directoire gown now ? Who will be wearing a split skirt two year waists now lo sha shar dresses, never go really out, so I cling to them for dear life. Of course, I try to give them some little touch that will be individual, and give 'style' to them. That's a knack. Oh, yes, I suppose have it; at least, folk say I have. peated, are the main thing, whether for uils, dresses, or hats. Nothing else counts for nearly so much. If you got something that really neeme to be an expression of you, that is really becoming without being tired of it. without being tired of
Get a good, graceful shape to bin with then you can have it stained, sho blacked, or blocked over meason after season. Don't buy an ostrich feather-at all unless you can get good one; good one is, of course, an investment they blow to pieces before half their rac is run, and anyhow they're rather bar barous, when you really think about it Loops of silk and velvet are reliable and look well, and I am very fond of really good lowers. Whem they fade,
"Oh, yes, there are loth of little way In which one can save. Hundreds of city girls are making all thair own clothes ing, len't it? Why, I know three girls ang, lean't it ? Why, I kno thre make all their suits and separate coats. Of course, they have adjustable dressmaking forms, and that's great help. I m going to have on some day, if it does cost $\$ 15$.
"But the little ways ? Well, to begin with, I never wear extra-fine flmy underwoar. It's dainty, but it's not for the girl who has to count her pennies. Good, frm cotton, is just as clean as batiste, and it wears so much longer. It looks very woll, too, when trimmed with Torchon. I always keep odd bits of la


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 genuity, they may bo made to look very-
well, too. I never buy readymade nilghtdresses. As a rule, they do not wear nelf. "Here's an idea for old shirtwaists.
When they wear ouf around the neckfrom the rubbing of collars, you knowcut of the neckband and make the sleeves
elbow length, scallop the edges, and work them with blue cotton. Really, they
look very well. Old, white, fancy waists I invariably make into corset covers.
"If you want to save on gloves, den't
 iron,
ones. ones.
extravagant, like all other filmy things and they are hard on the eyes. After all, one can keep one's hair in very well
with invisible hairpins. I am old and have wrinkles and things to cover up, I may take to white-net ones, but one can't wear a veil in the
house, so what's the use of putting one on any other time?
"Silk and fine lisle stockings, too, are
adelusion, and a snare for the woman who has to be careful. Of course, I keep a pair or two for fine occasions, but, whisper Oxfords I wear with my high shoes fifteen - centers hrough last summer, and there isn't a
hole in one of them yet hole in one of them yet. I walked
ot, too. And, you know, cotton stock

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Inge are
than lisle.
than Hisle.
thing is to take the Clothes, the maxt thing is to take care of them. That can't look well when you lou, for you clothes have been fammed in it your heap for a week. I have plenty of pikly ded coat-hangers, aloo skirt-hangers, and I keop all my things on them. Fotore pulways shake coats and dresses awny, 1 doors, and if there happens them out of I take it ofl with benzine or ke a enemet Yes, I press ${ }^{\circ} \mathrm{my}$ skirts and coats Whenever they soem to need it, and $1 \$$ very particular about keeping my ghow naste of benzine my white-kid ones with paste of benzine and cornstarch, and my
colored ones with white rubbed on a little at a time. and milk always go into their boxes when hate head, and the shoes I am not wearite are stuffed with paper. All these litthe things count for more than one might guess.-Now, I don't believe. I can thist
of any more for this time.. So we went away feeling
had done very well. GLADIOL
Dear Junia,-1 wonder if you can answer the following question for me: I see gladiolus seed advertised in some of the seed catalogues. Can you give any the seedlings wime belort how should seed of perem, etc. Also, treated? None of what I planted grem You are certainly thinking of den in good time, M. D. That is the right way. You can't begtn plamning
your garden your sarden too soon, and then there is the winter, isn't therg ? out all through I am happy to be ablo
on this gladiolus question trom quote you eminent authority, Professor Bailey, of Cornell University. "When seeds are sown," he says, "the seedlings should all years. Seed should be size in three carly in the open ground, on rich, sandy soil, and not allowed to suffer in the least for lack of molsture. At the end of seedlings season's growth, the corms can be stored under the saize of poas, and as large corms. The seconditions plant the corms as it they were asion, and Some will bloom the second year, buy rots and it more satisfactory to buy roots of perennial phlox

RE FURNISHING
through your valuable kindly advise me, most up-to-date furniture par, as to the Would wicker chairs be conar a parior ? or should they be the upholstered kind? Also. what kind of wall - paper is most used for parlors?
the spider to into my parlor, sald if even a spider no, but one wondere about his parlor. They are would tall ashion, you know, but there are livingvery galore, and a few drawing-rooms, most of the convenlently small houge that are the fashion nowadays, a compromise has been reachadays, a comlarge living -room furnished morng a Fhich y, and a tiny reeeption-room inte times callers who come at inopportune The living-room, as a rule, has wallpaper of a pleasant, yet sorviceable, nishings as far as possible, other furWicker chairs are perfectly in place in a living-room, also big leather or cretonneupholstered chairs. The main thing to remember is that all must be comfortor three light, and rockers, with two drawing up to the table. Thairs for also be a big couch, with plenty of cushions, while a piano and fireplace will add greatly to the delight of a room. occupied of the stained floor should be occupied by a large rug, and the curtains made of scrim (printed or - length, and raw silk, or Madras, with, if you choose, second curtains of fish-net, etc.
The receptlon-room The reception-room, on the other hand,
being used comparatively seldom, may be as dainty in coloring as you choose,-


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## 으루룰  <br> 690 660 615 607 525 523 520 634

Northera Zone (Maine, N. H., ,


Southere Zone (Mass., R. I., Conn.)

Send us your name for complete and instructive statement concerning the results of the contest and how these great yields of potatoes were obtained. No was used.

BOWTER FERTILIZER COMPANY

## Rennie's New Seed Annual for 1914.

WM-RENNIE CO, Limited
THS complete Dook, bound inl ithographed covers, is best seed catalogue we have yeti ssued-and oforerssome ost desirable Norelties in Vegetables and Flowere winter's evening cain be spent profitably in planning your garden, by a careful study of this boolk. Shall wo send you a copp

Cor. Adelaide and Jarvis
Stroets
TORONTO
Stroets,

## LAKEVIEW HOLSTEINS <br>  

## E. F. OSLER

BRONTE, ONTARIO
the great canadian annual Shorthorn Sale will be held at The Union Stock Yards,
Wednesday, February 4th, 1914 This offering, conigned by Robert Miller, Stouffr

 ROBERT MILLER, Stouffille, Ont. Col. Carey M. Jonanager of Srale. Reppert, Cap
C. \& W. LIQUID ROUP REMEDY A Pootive Cure for Roup, Canker and
Chicken Pox in Poultuy and Pigeons.


 We does itin work quichly.
 FFet adivicar given reararing dieases by out
poultry experti Wealera wanted every where to


FOR SALE
Greamery Equipment and Machiner



## FARM HELP

for placing on men now being organized party will sail in January. For full particulars, apply BOYS' FARMER LEAGUE
CREAM WANTED
c. per lb. fat for sweet or sour cream is more
than present market conditionas warrant. still, thit
our price commencing Feb. 1st. Cans furnis is our price commencing Feb. 1st. Cans furnishe
and Express paid within 100. miles of our city. W
meet all competitors. Write us TORONTO CREAMERYA CO. LIMITED,
TORONTO, ONTARIO
0. A. C. No. $/ 72^{2} 0 \mathrm{ATS}$

Government tested, for aaleiby'the grower.
R. F. KLINCI, Victoria Square, ONTARIO
 daintily upholstered in flowered chinta,
satin-damask, or anything you like best, dainty pietures, a few choice bits of bric-a-brac.
Now, you
Now, you see, your furnishings must be put the room. It may be noted that many people who cannot conveniently have both living- and reception-rooms, do with the former, dispensing altogether with reception - room and drawing - room or parlor

The Scrap Bag.
CARE OF EBONY HAIRBRUSHES. Hairbrushes may be cleaned very nicely Dy dipping the bristles up and down fin oughly in clear water, but this is likely o dull the ebony of the back. To pre with vaseline before washing the pristlos. Rubbing the ebony well with olive on after each washing is also efficacious.

## SAVING EGG-YOLKS

When the whites only of the egga are aoeded for immediate use. slide the yolks water, and keep in a cold place. They will keep for several days until a use is
found for them. found for them


Pad the end of an old broom or hoe handie, and sew to the padding bundle of old iannelette or cotion cut into ueeful for brushing down' alls, or we alightly moistened with coal oll, for mopping the dust ofl stained or painted aoors. Smaller ones may be made by asing a smaller stick, for dish-mope. In padding very firmly to the handle.

Cleaning old, steel pens
If steel pens scratch, hold them over will often remove the trouble.
freshening bows on hats.
When bows and loops on a hat become 1 mp and rerumpled, dampen them very lightly, then press from within with cially useful when travelling is espe

TURNFD-UP CORNERS OF RUGS. Sew a pocket on the underside of each
corner, and slip in each a plece of heavy in or zinc, which you can have cut to vent the corners from curling will pre

PLAN FOR COLLAR SUPPORTS. Talke pieces of tape a little longer than to form a little pocket at each end, then fasten to the inside of your collar at anch side. The celluloid supports may now be easily slipped in and held in place removed whenever the waist has to be undered.
discard salt shakers.
Use small, open salt-dishes, with saltof salt that becomes damp and refuses
boiling tough fowl or meat.
Add a tablespoonful of vinegar to the $\mathrm{n}_{\mathrm{y}}$ kind is being boiled. or meat of it tender. Two tablesponnfuls of wake added to the water in which fish is bein bolled, seems to have a somewhat oppo elte, though stlil benelicial eriect. I makes the Ish whiter and armer. When a few drops are added when poaching
egss, the whites are prevented, somewhat. from spreading.

Cleaning upholstered furniWhen it is too
upholstered furniture outdoors to take be beaten, cover each plece with often as necessary. The duat will as oten as necessary. The dust will adher
to the cloth and not rise linto the room

A FURNITURE REVIVER
The following is recommended as a very ture: Mix one part jemon oil and timo parte boiled linseed oil, and apply rathor aparingly to the wood with a linen ras Another also highly recommended . . . mixture of equal parte turpentine is a elder vinegar. and bolled llnseed oll. Shake well together before applying, and wash the wood arst with a soft cloth wrung out of hot water. Apply is
to cleaka white-felt hat. Brush the hat thoroughly. Dry sopi four in a slow oven and mix it soge bread crumbs, then rub the hat well with
the mixture. When all marks have die appeared, brush the hat well with clean brush.

FOOT-STRAPS ON KNITTED DRAWERS
Children who dress themselves, uauall have dimilulty in holding down the loge of their drewers while pulling on thetr stockings. A loop of tape tackod to foot may be slipped through it, will ro move the dimculty

## zinc FILINGS in stove

Burning zinc filings once a month is cocumulation of soot in pipes and chim-

WASHING white silk.
To wash white silk so that it will not turn yellow, use water that io baroly lukewarm, and pure white soap. Rimeo thoroughly, then wrap it in a cloth and let lie for half an hour and it is ready the air, as that turns it yellow.

LAMP CHMNEYS.
To make lamp chimneys bright, rub them with salt after washing and drying: Cleaning hair in cold weather. If washing your hair with water in cold weather gives you cold, try cleaning it Brush the meal out with a clean bruah.
to Renovate matting
Matting that has been frequently washed, and has lost its fresh appearing it with a mixture of shellac thinned with turpentine to the consistency of
varnish. Treat varnish. Treat one breadth at a time, dry quickly, weave. The mill ware will dry quickly, and will help to prevent
dust from sifting through the matting.
to remove grease stains from Apply a mixture of pipe-clay and water night, and remove next day with a clean brush.

TO IMPROVE TABLES AND DRESSERS Often the tops of tables and dressers become badly disfigured, the scratches being so deep that polish will not remove them. Get plain, flat moulding, and nail projects slightly above edge so that it of glass cut to fit exactly inside of this frame. Put Holland linen or pretty, flowered chintz or cretonne, beneath the glass.
to clean suede gloves. To clean light, Suede gloves, put some ontmeal in a bowl. Then put on the meal exactly as if washing them.

## Midwinter Recipes.

A Milkless, Eggless, Butterless Cake dark-begether for three minutes 1 eup soeded ralsing, it cup lard, 1 teaspoon ground clinnamon, $t$ teaepoon ground cloves, $t$ grated nutmeg, pinch salt.
cool, and when cold etir in 1 teaspoon noda dissolved in a little warm water.

## THIS WASHER MUST PAY FOR ITSELF．



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 Adureo．momeronally，

| T．MORRIS，Manager | 1900 Washer Co． |
| :---: | :---: |
| 857 Yonge St．，Toronto． |  |

## EVAM1 ए．


















等
 Farmers Hend som woothen ont

then 2 cups four sifted with teaspoon may be added is Baked．
for two minutes 1 Cake．－Boil together brown sugar，$\frac{1}{}$ cup lard， 2 cups，seedless
raisins． 1 teaspoon powdered cinnamon it teaspoon ground cloves，dash of grated nutmeg，pinch salt．Set aside to cool．
When cool．add $i$ teaspoon soda dis－ When in cup lukewarm water，then $2 \ddagger$ cups flour sifted with 1 teaspoon baking powder．Mix well，and bake in a but－
tered and floured tin．Bake in a mod－ erate oven．
Oatmeal B
and $3 \leqslant$ cups boiling 2 cups rolled oats antill lukewarm，then add cup mo lasses，pinch salt，and one yeast－cake
blended in a little cold water． Four no make dough．Let rise
over night．In the morning，stir it
down and let rise again．Mould into loaves and let rise once more．Bake
lorty－five minutes in．a moderate oven． Torty－five minutes in a moderate
This will make three small loaves．
Bread and Fruit Pudding．－Remove bread，cut the bread in slices and butter thin，then pile one slice above the other and cut them in very small cubes．Mix
one pint of the cubes with a cup raisins，a cup of sugar，grated rind of an orange or lemon，about hall a grated eggs．Pour into a buttered baking－dish and let stand about an hour．Bake until firm in the center．Stir after it hae been in thit oven hall an hour．This
will make quite a large pudding．Serve With creamy sauce，made as follows； or eight minutes．Pour the syrup in a ine stream on to the white of an egg beaten dry．Set the dish in ice water and beat occasionally until cold，then the bottom of the bowl．Flavor with vanille
Fggless Spice Cake．－Cream together 1 cup sugar and it cup butter．Add 1 cup
sour milk and 2 cups flour sifted with teaspoon soda，dash of nutmeg．tea－ spoon ground cloves， 1 teaspoon cinna－
mon．Mix in 1 cup floured raisins mon．in a deep loaf－cake tin．A cup of Bake in a deep loaf－cake tin．A．
nutmeats may be added if liked． Eggless Icing．－Boil together 1 cup until the mixture threads from a spoon． Add flavoring to taste，and stir until
thick and creamy enough to spread on cake．
Oatmeal with Apples．- To 24 cups boil－ ing water add 1 teaspoon salt，and
sprinkle in slowly ap oatmeal．The water will not stop boiling if the meal five minutes，then put into a double－ boiler and cook at least thirty minutes，
Serve with apples cooked thus：Wash the apples and core them carefully，then
pare．Boill 1 cup sugar and 1i cups pare．Boil 1 cup sugar and 1 cups
water
together for about five minutes， then put in the apples and cook gently and around them，and cream poured Stew of Beef．－Cut thin slices of cold roast beef and lay them in a saucepan
set in boiling water．Cover with a set in boiling water． little salt and pepper，a spoonful of cur－ rant jelly，a teaspoon of made mastan， and steam for half an hour，keeping
water in the outer vessel boiling hard．
A Delicious Apple Dish．－Wash and core carefully six large apples．Place the apples in a deep granite or aarthen mix－ ture of chopped walnut meats and stoned dates．．Put cup water in the dish， sprinkle the apples thickly with sugar， and cover the dish untill the sugar is melted，then uncover and let bake，using the syrup to baste the apples with occa
sionally．Serve in a glass dish with sionally．Serve in a glass
cream whipped until stif on top． Onion Soup．－Peel three large Spanish onions or several smaller ones，cut
in slices and let coole in $\%$ cup butter melted in a saucepan．Stir occasionally，
but do not let brown．When the onions but do not let brown．When the onion
are yellowed and softened，add 2 quarts broth or stock of any kind，and let sim－
mer very gently for half an hour．Add mer very gently to taste，and strain． salt and pepper with croutons of toasted
Serve very hot whead．

Many people who cannot eat either of theal or fried foods at any other time
of find quite an appetite for them during cold weather．It should be ＂deep fat＂is much more palatable and more digestible than when fried in a lit－ the fat in a frying－pan．By frying in
deep fat，the outside of the article is seared at once，making it impossible for the juices to escape．These juices，when is merely browned by the fat the outside When food is cooked in a little fat in a frying－pan，on the other hand，it be
comes soaked with the fat． To dook successfully in deep fat，a ket－
tle should be used， deep enough to quite cover the food The fat，also，should be hot enough to brown the food quickly，but not hot enough to crisp it to the core，
A useful table is the following
A useful table is the following：Drop a bit of dry bread into the fat．If it croquettes and all previously cooked foods；if in sixty seconds，it is right for doughnuts and fritters．Fry just a few articles at once，and be sure to roll croquettes，etc．，in egg and bread crumbs
before submerging them．Drain the cro－ quettes，etc．，on brown paper as soon as removed from the pot．
＂Deep fat＂is really the mosit econom－
ical method of frying．It can be used over and over if clarified by coolding a few slices of raw potato in it．
Doughnuts．Cream together
sugar， 2 teaspoons butter，pinch cup ugar， 2 teaspoons butter，plinch salt，
and inated nutmeg．Add 2 eggs well beaten，and beat well，then beat in 1 baking powder with 4 cups flour．Use enough of this flour to make the dough
just stiff enough to handle， remainder on the board．Roll the dough out $\frac{1}{2}$ inch thick，form into rings and
twists，and fry in deep fat．Drain we then roll in powdered sugar．
Fritters．－Sift together
Fritters．－Sift together 1 cup flour， teaspoon salt， 1 teaspoon baking powder．
Next add 2 eggs beaten and added to 1 cup milk，and beat with an egg－beater until smooth，not frothy．Add 1 tea－ spoonful of sugar if you choose．Dip slices of apple，peach，pineapple，et
into the batter，and fry in deep fat． French Potatoere the potatoes and cut them into slices．Soak in cold
water for an hour or two，then dry on a towel．Drop into fat hot enough to
brown them by the time they float，when they will be done．Skim them out， drain on brown paper，sprinkle with salt，
and serve at once on hot plates． and serve at once on hot plates． 1 French Crullers．－Take 8 eggs， 1 tee spoon salt，flour to thicken， 8 table
spoons milk， 6 tablespoons melted but－ ter， 6 tablespoons sugar．Rub butter， salt and sugar together；add the beaten egg and milk，and flour enough to make
a soft dough．Roll half an inch thick cut in rings，and fry in deep fat．
allow 1 can salmon， 4 tablespoons milk， $1 \frac{1}{2}$ cups bread crumbs， 2 eggs， 4 table spoons melted butter；salt and pepper to salmon and mash fine，add the beaten egg，then the melted butter，the crumbs， by spoonfuls in beaten ogg，lay each in cracker－dust，and shape，then fry in deep

## WHY SHE WEPT

When Jenkins finally managed to wake
up，he found his wife weeping uncon－
＂My darling ！＂he exclaimed
in the world is the matter $?^{\text {＂}}$＂Oh，I＇ve had such ＂Oh，I＇ve had such a dream，＂she said． and finally she consented to sey this
much ： Ithought I was walking down the street and came to a shop where it said： ＇Husbands for sale．＇You cauld get beautiful ones for $\$ 5,000$ ，and very nice－
looking ones for even as littlo as $\$ 500$ ．＂ ＂And were there any that looked like ne ？＇asked Jenkins，not altogether im－ genuously．
The sobs
The sobs became suddenly violent．
＂Dozens of them ！＂gasped klas．＂Done up in bunches like espara－ gus，and marked 25 c ．a bunch．＂

A serious effort is being made in Ohine to make Confuclanism the made in Chine President Tuan，however，seems to be in
favor of freelom of worthip．

Condensed advertisements will be inserted unde Each initial counts for one word and figures for Coo words Nases Nust always accompany the order counted． advertliemementuys accompany the order for any
 A number of choice Single Comb Rhode Island direct from prize winning stock．Fred M．Pugh
Mongolia，Ont．





FOR SALE－Choice exhibition S，C．B．Leghorn
FOR SALE－Mammoth Bronze turkeysi prive－ Angus Bealtie，Wilton Grove，Ont．R．No． 1.
 Winona，Ont．
FORTY－FIVE varietiee fancy poultai Hand $\mathrm{M}^{\text {AMMOTH }}$ Bronze turkey，fine，heavy，vila bil MAMMOTH Bmare tarkeys for seles ale Mockingle Comb White Levicym cockerels sichoice

Ontario．H．Rutherford，Box 62, Caledon Eavi， PUREBRED Bronze．Turkeys，Rouen，Ducks， PURE Bred Bronre Turkeys，Brown Ducki ＂SNOWFLAKE＂White Ieshom Cockerele | E．W．Burt，Parle，Ontario． Ruality．Low prices． |
| :--- | S．C．White Lieghorns for sale，a number of choice

cockerele．Geo．D．Fletcher，R．R．No．2， WANTED－HIDES TO TAN
 B．f．bell， Delhi，Ontario
Cream Wanted
 TORONTO CREAMERY CO．，Limited

## Cream Wanted

## We pay exprese charges on cream from anyes－ preses office within 200 miles of $O$ ttawa．We

 andalso supply cans，Smees or ottawa．W
accepted．Write for particulars to
Valley Greamery of Ottawa，Limited Ottawa，Ontarle
The proprietor of Letters Patent No． 124614 ＂Air Current Interruptors＂



WHERE THE FARM BAND BALICTD Sam had worked on the farm for ning try farming he was quite satisfled poul－ But this poultry buainesp was a bit too much．He had to take the eggs as they with an indelible peneil．And on them that，he had also to write on the egga the breed of the heo that lold them． So one day ho marched up to the tarmer． Soing to leave
The farmer was astonlshed
soing to leave me said he，＂you are not ＂Yes，but I am，＂retorted Sam．Vers？＂ done every llind of rotten job on thit here farm，but I＇d rather starve than gn

# The Canadian Bank of Commerce 

## Report of the Proceedings of the Annual Meeting of Shareholders

Tuesday, 13th January, 1914

The Forty-seventh Annual Meeting of the Shareholders of the Canadian Bank of Commerce was held in the banking house at Toronto, on Tuesday, 13th January, 1914, at 12 o'clock.

The President, Sir Edmund Walker, having taken the chair, Mr. A. St. L. Trigge was appointed to act as Secretary, and Messrs. Aemilius Jarvis and Edward Cronyn were appointed scrutineers.

The President called upon the Secretary to read the Annual Report of Directors, as follows:

## REPORT

The Directors beg to present to the Shareholders the Forty-seventh Annual Report, covering the year ending 29th November, 1913, together with the usual statement of Assets and Liabilities:

The balance at credit of Profit and Loss Account, brought forward from last year, was
(771,578 88
The net profits for the year ending 29th November, after providing for all bad arid doubtful debts, amounted to.

2,992,951 10
\$3,764,529 98
This has been appropriated as follows:
Dividends Nos. 104, 105, 106 and 107, at ten per cent. per annum
Bonus of one per cent. payable 1st.June.
Bonus of one per cent. payable 1st December
\$1,500,000 00 150,00000

Written off Bank Premises. 150,000 00
Transferred to Pension Fund (annual contribution)
Transferred to Rest Account. 500,000 00

Balance carried forward

In accordance with our usual practice, the assets of the Bank have again been carefully revalued and ample provision made for all bad and doubtful debts.

The following branches were opened during the year: In British Columbia: Comox, Courtenay, Pandora and Cook, Victoria, and Parksville. In Alberta: Highland, Monitor, Peace River Crossing and Retlaw. In Saskatchewan: Kincaid, Readlyn, Shauna on and Wiseton. In Manitoba: Kelvin Street, Winnipeg. In Ontario: Oshawa and Port McNicoll. In Quebec: Upper Town, Quebec, and in New Brunswick: Campbellton, Moncton and West St. John.

Sub-agencies mentioned below have been made independent branches:
Asbestos, Chambly, Clarenceville, Dunham, Iberville, Lacolle, Roxton Falls, Stanbridge East and Uppertown, Sherbrooke, all in the Province of Quebec.

The branches at Stewart, B, C.: Black Lake, Que., and St. Elizabeth, Que., have been closed, and the business of the branch at 367 Main Street South. Winnipeg, has been transferred to the main office in Winnipeg. The business of the sub-agencies at Naramata, B. C. : Beloeil Station. Henryville. Lawrence. ville, St. Philippe de La Prairie, St. Sebastien, Sweetsburg and Upton, all in the Province of Quebec, has been transferred to their respective parent branches. Since the close of the year branches have been opened at St. Denis and Duluth, Montreal; Bath N. B., and Bristol, N. B

Due notice has been received of the intention to nominate Mr. T. Harry Webb, of Messrs. Webb, Read, Hegan, Callingham 81 Co., Montreal and Winnipeg, and Mr. James Marwick, C. A., of Messrs. Marwick, Mitchell, Peat \& Co., Montreal, as auditors of this Bank under the provisions of sub-section to of section 56 of the Bank Act.

The branches and agencies of the Bank in Canada, the United States, Great Britain, Newfoundland and Mexico and the departments of the Head Office have undergone the usual thorough inspection

The Directors wish again to express their appreciation of the efficiency and zeal shown by the officers of the Bank in the performance of their duties

ALEXANDER LAIRD,
General Manager
Toronto, 13th January, 1914.

## General Statement, 29th November, 1913 LIABILITIES

Notes of the Bank in circulation
\$ 15,642,923 18
Deposits not bearing in-
terest . . . . . . . . . . . . . . . . $\$ 52,798,20584$
Deposits bearing interest,
including interest accrued
to date
140,015,509 40
192,813,715 24
Balances due to other Banks in Canada.
Balances due to Baßks and Banking Cor
Mespondents elsewhere than in Canada.
Bills payable
Acceptances under Letters of Credit.
10,071,316 73
9,515,787 65
1,941,544 19
Dividends unpaid
\$230,618,524 11
Dividend No. 107 and bonus, payable
2,666 48
1st December
Capital paid up
\$15,000,000 00
Rest
13,500,000 00
Balance of Profit and Loss
Account carried forward. $384,52998 \quad 28,884,52998$ ASSETS $\$ 260,030,72057$
Current Coin and Bullion. . $\$ 9,579,47366$
Dominion Notes.
20,836,182 50
$30,415,65616$
Balances due by Banks and Banking Correspondents
elsewhere than in Canada 6,884,652 83
Balances due by other Banks
in Canada................ $\quad$ 22,122 47
Notes of other Banks..... 3,106,230 00
Cheques on other Banks... 6,418,425 14
Call and Short Loans in Canada on Bonds, Debentures and Stocks.
Call and Short Loans elsewhere than in Canada
Dominion and Provincial Government Securities
British, Foreign and Colonial Public Secur-
ities and Canadian Municipal Securities.
Railway and other Bonds, Debentures and Stocks
Deposit with the Minister for the purposes of the Circulation Fund

18,091,224 04
$\$ 97,308,31614$
Other Current Loans and Discounts in
Canada (less rebate of interest)
$136,474,87482$
Other Current Luans and Discounts elsewhere thai in Canada (less rebate of interest)
Overdue Debts (estimated lo..................................
Real Estate (including the unsold balance
of former premises of the Eastern Townships Bank)
Mortgages on Real Estate sold by the Bank
Bank Premises
Other Assets
Liabilities of customers under Letters of
Credit, as per contra
6,431,430 44
9,610,550 08
$16,154,36065$
$3,434,605$ © 06
2,431,989_71

738,500 00

18,102,015 15
487,554 72

979,915 61
433,607 32
4,281,481 60
21,411 02
21,411 02
1,941,544 19 \$260,030,720 57
B. E. WALKER, President

## ALEXANDER LAIRD

Z. A. LASH, Vice-President. General Manager. The motion for the adoption of the report was then put to the meeting and
carried. Amendments to the by-laws regulating the number of directors of the bank were passed, and Mr. T. Harry Webb, C.A., of Messrs. Webb, Reid, Hegan
\& Callingher Callingham, Montreal and Winnipen, and Mr., James Marwick, C.A., of Messrs. their remuneration not to exceed the sum of \$15, ono for the year. The ussal
resolutions expressing the thanks of the shareholders to the Board of Directors and also to the staff of the bank were unanimously carried. Board of Ditectors meeting procueded to elect directors for the coming year and then adjourned.


 Flumerfelt, George G. Foster, K. C., Charles Colby, M. A., Ph.D., George W.
Allan, H. J. Fuller, F. P. Jones. At a meeting of the newly-elected Board of
Directer Directors heir subsequently, Sir Edmund Walker, C.V.O., LL. D., D.C.L., was
elected President, elected President, and Mr. Z. A. Lash, K. C., LL. D., Vice-President.

## The Windrow.

has also derigned a number of Scotch. re known hoollen business are known as scotch tweed

Henrik C. Andersen, an American-Scandinavian sculptor now living in Rome, has recently published a remarkable book
explaining a remarkable project for the building of a world's capital. on ideal world city, as a center for all international movements. The book contains complete plans for every part of the city, and embodies the work of forty
artists, architects, sculptors neers engaged by Mr. Andersen, at an outlay of $\$ 150,000$. The city, as planned, is to be a city of "light, health, where that the nations may choose plans show Internation may choose, The ings for medicine, surgery, law and invention, with an International Hall of Justice and a Temple of Religions, a
world's wor the reference library, and institutions and all higher. learning.
A story is told of Prince George, Yourth son of the King and Queen. It appears that the young Prince, who is being edu--
cated at a private school, is sufficiently cated at a private school, is sufficiently
like boys of humble rank for getting into like boys of humble rank for getting into
trouble occasionally with his head master. Then follow long interviews in the
study. The Prince's fellow - pupils felt study. The Prince's, fellow - pupils felt
rather curious after an unusually long interview one day, and wanted to know what had happened. One of them said: long time in there. What does he do to you ?"' To which the answer was : "He doesn't do anything; but he tells the bally
guv'nor !"-Otago Witnese guv'nor !'"-Otago Witness. A number of prominent Washington
women, members of the Housekeepers
Alliance, have established a school for servants in which girls are to be thoroughly
keeping
The tube of the greatest telescope in the world is now being built in Cleveof Canada. The object glass will have a diameter of 79 inches, and the weight tons.
In memory of the late Lady Curzon, King's Cross road, London, W.C. In the hall is a tablet inscribed: "This building, to be known as the Mary Curzon Hostel, was erected in tives and friends of hearted and beautiful, who in her short life sought to make the lives of women happier in many lands. Mary Victoria, wife or Lord Curzon, of Kedleston. Born was the eldest daughter of the late Levi Zeigler Leiter, the American millionaire She married Lord Curzon in 1895, and
left hin left him with two daughters.

Recently a rather remarkable gathering was assembled at Sunderland House, the London residence of the Duchess of Marl ministers, noted authors, and others, also about twenty women earning from $\$ 1$ to $\$ 3$ a week, and working from ten to fifteen hours a day, women assembled they might tell their own story of the with influence to which they live to me That the experiment was not without effect may be judged from the fact that $\$ 4,000$ was gathered on the spot to as-
sist the society that has been formed to do away with sweating. It was shown that over 300,000 women in England work ten hours a day and earn under $\$ 8$
a week, while many thousands a week, while many thousands earn less
than $\$ 2$ a week. Weak tea and bread than $\$ 2$ a week. Weak tea and bread
form the diet upon which these women have to live and work.

Miss Haldane, sister of Lord Haldane, is one of the most cultured women of to day. She is a B.A. of Girton, writes
well, and reads widely. She doe well, and reads widely. She does ex-
quisite needlework, and has reproduced some beautiful pieces of embroidery. She is also much interested in spinning, has a spinning-wheel of her own, and encour-
ages the industry the family estates in Perthshire. She

At the World's Fair in St. Louls, the only day dedicated to any human being was set apart, not to the honor of statesman or admiral, educator or inventor, duat trom that of a frail girl, blind known as "Helen Keller Day;" and upon it the wonderful girl addressed an immense audience, many of whom were deal dresses. She learmed to read a 10 ad ed story in 1887, "and from that day to this," she says, "I have devoured every thing in the shape of a printed page tha finger-tips." She uses the typewriter in five languages, has learned to speak with clear articulation. can swim, row, play cards, chess, and basketball; dance, and perform a hundred other seemingly imvellous, her temperament sunshiny and happy; her mind is wonderfully broad subtle, and thorough, and her book, "The Story of My Life," besides being great as a blographe, entury on wost logy as a revelation of the human mind. its methods and possibilities.

The combination school for farmers is an idea that is being worked out in dift
ferent sections of the country. At Northampton, Mass., and in some schools and academies of the Northwest, this type of school is organized on highschool plans and aims to sive the chil-
dren the kind. of education most adapted to farm life. Attached to the school is a farm, where they are given regular lessons in the construction and repair of farm buildings, use of machinery and leading crops of the sections. So far the plans seem to work well, and not only gives the children a good, practical training, but it helps improve the agriculture of the neighborhood by reason of
the practical teaching which the children carry home to the farm. The new idem seems to make the school a leader in everyday agricultural life.-American Cul-
tivator.

## News of the Week

## canadian.

Sir James Whitney, Premier of Ontario, was brought home from New Yorla on January 19th, and taken to the General press, his condition At time of going to proved.
bRITISH AND FORTMGN.
Two important diseoveries, which, it is expected, will reduce the greet cost of carnotite, have been made at the University of Pennsylvania.

It is reported that Lord Rothschila Mendel Beiliss, an estate in Palestine for and acquitted of the charge of ritua murder.

Colonel Gorgas, who had charge of tho sanitary department during the construction of the Panama Canal, and who suc breeding isthmus as healthtur as any favored part of the globe, has been appointed as Surgeon-General of the United States army.

The official loss of life caused by the eruption of Mount Sakura-jima, Japan, is placed at 200, but several thousand people are still missing.

Argentine wheat is now on the free ist, and can enter the United State without payment of duty.

The United States proposes to build an extensive system of land fortifications on
srs. Webb. -section 10
foundland inspection
the officers

## The SPRAMOTOR Does All That is Humanly Possible For Growing Things!


#### Abstract

TART an orchard, a vineyard, a a feld of potatoes or any thing that grows and let it take care of itself. That one way of being a a grower one way of being a grower. It may seem strange to blindly ahead trying to achieve the impossible-trying raise a perfect crop from a neglected field or orchard $$
\begin{aligned} & \text { SPRAMOTOR. yiants, vines or trees with the efficient } \\ & \text { vines and plants-with few exceptions-are quite unequipped } \\ & \text { by Nature to combat their many foes? They are the } \\ & \begin{array}{l} \text { legitimate prey of tunnelling insects, burrowing grubs, } \\ \text { blight, worms, canker, scale, rust, lice, and the countles } \end{array} \\ & \begin{array}{l} \text { blight, worms, canker, scale, rust, lice, and the } \\ \text { pests and parasites that house in and upon them. } \end{array} \end{aligned}
$$


The man who grows fruit trees, vines or row crops for a living should be sufficiently alive to his own interests to bring his crop to the pitch of perfection.
What Excuse Have You For Not Owning a SPRAMOTOR ?
If you are a small grower, let us tell you that we mak reliable, durable, efficient SPRAMOTORS from $\$ 6$ up. In
you are in the business on an extensive scale remember. ye make horse-power and gasoline engine SPRAMOTORS we to $\$ 350$.


Codel "C", 'Gasoline SPRAMOTOR.
SPRAMOTOR LIMITED, LONDON, CANADA
and protection to the Panama Canal and Edwin Ginn, founder of the World Peace Foundation, died on January 21st, at his
tome near Boston. He was 74 years of age.

| President Wilson has had drafted his |
| :---: |
| purpose concerning |
| Trust |
| legislation | purpose concerning Trust legistation.

This embodies a sweeping prohibition of This embodies a sweeping prohibition of
interlocking directorates, provides for the location of individual responsibility for unlawful monopoly and imprisonment of
offenders, adds to the Sherman Act. and -aims to create a commission to make

- finuiry into illegal combinations, to asInquiry into illegal combinations, to as-
sist the Department of Justice, and supervise

ThePeople of the Whirlpool.
ISerial rights secured from the Mac-
millan Publishing Co., Toronto and New York. 1

By Mabel Osgood Wright. Chapter XIV
THE OASIS
September 8. Three lowering days of
wind and rain. and summer wind and rain, and summer. after
feigned departura, has returned to com
plete her task of perfecting. feigned departurs, has return
plete her task of perfecting.



We Make SPRAMOTORS-Nothing Else!
For years, our best efforts have been directed to the one goal of producing the best spraying outfit sold. medals with SPRAMOTORS at different exhibitions, fairs and contests. SPRAMOTORS got the first place at the Canadian Government Spraying Contest, Grimsby, Ont., out of elevcn machines entered. That
means something-and the Canadian Government has means something-and the Canadian Government has
Perfect Spraying is What You Want! and only a perfect machine will do that kind of spraying. Don't you competition with eleven other makes, is as near perfect as has been produced? A SPRAMOTOR-at any price-will be immeasurably superior to any other at a similar figure. Why not have the best there is, when it costs no more? You can't afford to take chances and
FREE! Take advantage of this! Write y, stating what you consider are will ppraying requirements; this whatever. By return mail we, will send you our valuable treatise
(illustrated) on "Crop Diseases", their with the SPRAMOTOR catalogue describing our whole line. Write while you are at this page

She does. this year efter yoar-the marvel is that we are over docelved
but after all. what is it but aict betwesn arbitrary and natural lom The almanac-maker mays that on the Arst day of September autumn is the Nature, the orbit-malior, proclaime the summer until. the month threequarter alwaye right, and after the usual brem argument sends summer, hor garmmeng bit storm-tattered, perchance, back to her own.
The ill wind that dashed the tin auratum wies in the garden to it ground, seripped the elinging inger a Che sweet peas from their trellis, an has blown the heavy-headed dhilis awhile. sent me to my attic confentoon once more. with conscience for priet and the twins for acolytes, though the presently turned catechists with an oor thes of questions.
Whon I have not opened my denk er my garden book for some time, and the planuing season, be it of spring of a wares. I A ow, overtakes me wit that kardening is the truly convincon life. for it tmplies a continual prepare tion for the future. a treeding in th draight and narrow path that palifty experience alone can mark, an absory or berond compare, and the continu f entire childlike faith.
When the time had come in the er arivected animal with the Divine of the that forevar separates him from all vious types, it was no wonder that Got net man. in whom the perpetual strugsi hatween the body and soul was to thl place, in aga

Recently the boys have been abertit their little printing press, which have established in my attic corner, the present working motive having com from the card announcing Sylvili cording to M . It in general, Pichard eecured r. Lathams delle simselt an entire morning in settint \& in type. for the first time in his expert ance gotting the capitals and small lo uft was so praieeworthy that Eva hunted up a large box of ornamenta days they have been "flling orders" to every one in the household.
1 print the names they wish to copy does the typesetting, which is alto gether too slow work for Ian. who, w pressman. does the inking and printing his Lardv letters. As to the distribus ing and cteaning of the type, I find ittde ascistance is pratefully accepted even by patient Richard. whose dear bxome tired. and fumble.
To-day, having exhausted the simple family name, thev have tried combine tions and experiments with tha Mr., Mrs., and Miss, much to their omm being considered a huce joke
Suddenly Ian looked up with one of his most compelling, whimsical smiles, grandpop's whera Is Mrs. Uncle Martin?
Kathar startled. I said that I didn't Mre. Uncle Martin.
"Why not ?" persisted Ian. an anower that is simply an acknowledgement Iguoranca never being accepted by child. Before B R Richar any Mr. for her card neiver. and Martha. she said the other day that there was a Mr. and a Mrs. for every bady, only sometimes they couldn't and ach othar for ever so long. She told hat to Fiffle, and I heard her
A short pause, and then Ian jumped
up, clapping his hands with joy, as the solution of the problem flashed acros bim.
"I know what's happened, Barbars maybe Uncle Martin's Mrs. and Aunt Lavinia' Mr. hat gone and got lost to
gether. and some day they'll find it
 it but the cm that on the autumn 1 thre-quarters Naturn 1

## d

nging finger
neir trollis, headed nnee for prl
tes, though sta wi
stions. ned my deek apring or of newly convine ntinual prevare creading in th ark, an absor

4stamptng of it he Divine than vonder 'that Go
erpetual strugs oul was to the

JANUARY 29, 1914
out and bring each ovver back I Do vou think they will, so wo can have and couldn't we hurry up and help and them 1 guess we better print him some Mrs. cards so as in came. I hed drifted into gardening work on papor agein. and I believe I sald that thought about the matter. and at that moment the bell rang for luncheon. The ringing of bells for meals in this
house is what Lavinia Dorman calls "a rolic of barbarism." that she areatly deolores: but as I tell her, our family cethers from so many peints of the 2mpass that if the maid announced the anils. obe would have to be gifted with the inatinct
Ian's queries have brought up aubfoct that has deluded and eluded my topes ell summer, and has finally onded in the prople that I hoped would drift through the doorway or one of my most oubstantial air castine refusing so to do. door. Martin and Lavinia bee the beor possiaech other's society, wee from nearly the same point of view. and both agree and disagree uaven not settled the ouastion but lonelliness of living as I hoped, by making the companionship permanent. matrimony.
of couree. I did not expect them to Pell in love exactlv Ea Evan and I or Horace and Sylvia did-that belongs to
opring and summer : etill, I thought that when they started worm-hunting together, and played checkere every ovening, that they wer beginning to and aach other mutuallv indispensable. But no. Martin stored away his pan pers in the old desk. and went to New Vork a weak ago to nee several suites of bachelor apartments that had been -flered him.
He write this morning that he has lound one to his liking, and will return morrow to pack his thingt. Meanwhile Miss Lavinia has sent her maids to clean and open her house in "Greenwich Village," and will go home on
Monday, spending her Anal Sunday with ne. Josephus went with the maids apon him. ing uptown. several of her friends at the Bluffe insisting that an apartment aear the Park is much more suitable from the social centre, saying it is no monder the is lonely and out of things: but yesterday she told me that she had abandoned the idea of change. and had carden dismantled her old back yard aved $a s$ it is now whole plot place for drying clothes. Also that she Lydia. whose Staten Island home had been bullt in by progress, very much the winter with her : and. lest she had given the letter to Evan before the ink was fairly dry, as he passed the
cottage on the way to the train, that he might post it in the citv.
One consolation remains to me in the Miss Lavinia has liked our neichborhoood so well that she has taken the Alto cottage that she now occupies on a
three years' lease. and intends hiving here from May to October. The ramb plang garden is full of old-time. hardy times we shall have together there next spring, for of course she will stop with me when she is getting things in order uttings to fill everv spare inch of what ,-so, with Sylvia at PIne Ridge thubbub of the Bluffs seems to be quite vanishing from the foreground and merg That reminds me that the people are drifting back quite rapidly now. Th soll talk of antroducing fox hunting with tame foxes: but they will have ting with the land, with its dips and rocks, betof first. or there will be a pretty crop
eracked crowns for father. At prea

THE FARMER'S ADVOCATE.

Judice will soon. however, get the upper
hand here. and tighten her hold of the hand here, and tighton her hald of the
reins that seemed slipping from her
grasp, which is well. for she has grasp, which is well. for she has long
borne aloft the only standard of and tonal morality whose code is not and sliding scale.
September 9. Martin came back to night. As he entered the house with or he has shaved off his mustache and queer little pussy-cat whiskers. and with them has gone his "pudgyness." He is really a very ine-looking man, and hit process in an unexped by the shaving process in an unexpected way. He seema thing that passes, that I could see that lather. who came from the office to greet him, had difficulty in restraining his surprise, but he contented himeelf by asking :-
ors? Did you fall among the publisb among friends?"
"That is equivalent to asking if my book has been accepted, as it is only when work is refused that we call the mediums through which wo seek to reach the public hard names. Yes, the
ate of my book is soon told : it ha ate of my book is soon told : it has
ound its place. and it is to be fully illustrated as well, though it will tak me many months to collect the unique material they desire; this insures me busy winter. for which I am not only
prepared but eager. "I pared bot eager.
what this summer here has done for me Dick," and he leaned over the chair i which lather had seated himsolf and lai his arm affectionately across his shoulder. "I think in asking me her you rescued me from as dangerous stood by my bed so. many yeare ago." "Don't thank me," said father, lean ing back and looking up at him. "thanl God's sunshine, work, the babies here and why not woman's society also,-you old man? Give everybody his, rather har, due."
"Yes," I heard him answer, as ondering the matter, while I fled dis creetly upstairs at this juncture, "you doubtless are right; Lavinia Dorman'
criticiems have been of infinite value in ridding my work of a litter of word that encumbered the spirit and purpose of it. She is direct and to the poin and yet withal most sympathetle. had thought of dedicating the book t are joint heirs, as it were, in so many treaditione and habits of old New Yorlc that it would not seem strained or in appropriate."
suitable, and I would think it most great pains to hide the compliment any the dedication under a bushel of disguise either, if I were you. The Lydia Lan guish age of abnormal privacy and dis tunately passed. Nowadays women like men to be direct. outspokgn, definite where they are concerned." "Do you think so ?" asked Martin, it might annoy her." "I know so-annoy her, fudge !" wa father's comment

When we went in to dinner. Miss Le
vinia at once noticed the change Martin's appearance, and said. in
"Back from the city, and with new clothes, too.-how very smart and be coming they are.
But poor Martin was quite guileless, But poor Martin was quite guileless,
and looking down at his coat in puzzled way, as if to make doub$\begin{array}{cc}\text { ly } \\ \text { by } & \begin{array}{c}\text { sure } \\ \text { my }\end{array} \\ \text { replied, "No, } \\ \text { clothes for } & \text { it } \\ \text { fornnot }\end{array}$ the same." Then, brightening, as the possible reason occurred to him : "Per see. the barber made an error in the trimming of my decorations yesterday, entirely off and have them grow afresh. but I had not thought of the matter in the light of an improvement." tinued Miss Lavinia. nodding brightly across at him. While father. who now realized the change he could not locate.
cried :- "Don't let them grow again, my boy.


Seventh Annual Combination Sale of Pedigreed

## CLYDESDALES

PERCHERONS
monday and tuesday

## February 9th and 10th, 1914

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 ioord are guaranteed to be in perfect condition Ne espectially recommend our factory mixed high-grade fertilizers This is a splendid opportunity. Write us immediately about it William DA V G Company West Toronto, Ont.
air answered the katydids' cry for
"Somemore-heat. somemoreheat." Miss Lavinia was still in the ball. sitcisg Lavinia was still in the hal. for the boys had been using the broad landing that made a turn at the top of the three steps as a place to play their games. Martin stood leaning on the heard I knew that he was telling her about the proposed dedication, so I
went out and joined Evan. for it meems as though we had little leisure outdoors together of late. and as if it was theo to make it up as best we might. streak of light that streamed like a narrow moon path from the doorwas. Evan paused and nedded his head to ward the hall. 1 turned-there aat
Misa Lavinia and Martin Cortright all the stairs, playing with the boys'-jack"After this, what?" I asked, in my mirth leaning backward on Evan's oupporting arm. deluge," chuckled Evan: "but as thene are prosy times. it simply means the end has been reached, and that to-mor-
row they will put away mild summer row they wim put away mild summer paddle about decorously as of yore." I find that I am not the only parson who is disappointed at the absence of matrimonial intentions between Martin told me yesterday that she's been expecting to hear of a second wedding any day, as when one took place it alwaya meant three, thnugh she couldn't " "etch thind's eye," which I have found to be usually a capacious and well filled optic. Mrs. Barton also stopped Marthe Corkle on the road. and said with an Insinuating sneer. "She'd always sup-
posed that the gentleman from Now York who lodged with her was making of to the prour old maid at the Doo


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lor prices and illustrated catalogue frite. Aylmer Pump \& Scale Co.,

ing to, she'd advise Mrs. Evan to watch disappointed, might set her cap for the Doctor himself. and then the Lord knows what would happen, men boing so eavily
fiattened and trapped." fiattaned and trapped.
Martha was indignant, and I must say
verv rude. for she snapped back: "I verv rude. for she snapped back: ',
wonder at the same bein' your holdin', Mrs. Barton. bein' as you've five maid,
daughters that's not so by the desirin', daughters that's not so by the desirin'。
follks do say as lnows." wear gloves,-their ammunition is stlcky. Soptamber 10. This morning father and re hoepital business. as we had to romatn there for luncheon, or perhape took the train instead of driving over longer, leaving Lavinia to pack, so that
she might have a free Saturday to drive with me to bid Mrs. Bradford good-by, wind learn the latest news of Sylvia and Horace. Meanwhile the boys were to go fishing with Martin. who io as caro-
ful of them as possible, taking their ful of them as possible, taking their
lunch with them. They did not have good luck, how-
ever, and growing restless and tired of fiahing without catching, Martin brought them home by three oclock, and a
both he and Miss Lavinia had finished their praparations for leaving, they went out to the seat by the rose arbour to alternoon. for it has been one of those days that come in dreams, so perfect
that one knows it cannot last. that one knows it cannot last. of you this winter." said Miss Lavinia.
"Of course you will be busy, but you "Of course you will be busy, but you
might spare $z$ lonely woman an evening now and then for piquat, or whist
if ICval or the Deoter shouse come to town." how could that be pomaible ?" quaried how could that be posaible?" quarlied
"You know there will be a eecond
volume of the book for you to read and criticise. besides all the illustrations to diecuss. No, I hoped that ylou could spare me two definite evenings every
week, at least until the work is in press, though I suppose that is aeking a great deal of a woman having so many friends, and places to go. "If you could see the way I spend my
evenings alone, you wowld not hentaty eveninge alone, you would not hesitate.
Of course I do dine out once in a time. Of course I do dine out once in a time.
and people come to me, but between simes-I envy even Josephus. who can have social enjoyment any time by merely scratching on the door and running along the palings to the neighbors." the Washington Square roomp. instead of moving up nearer the Clubp as my
triends advised. because I thought it would be so much more convenient if. in proof correcting, I
Mise Lavinia felt a pleasureible flush rising to her cheoks. When it was chilled
by the memory of har invitation the bv the memory of her invitation to her
coustin Lydia. Why had she given it ${ }^{\text {a }}$ cousin Lydia. Why had she given it? would be unwelcome to her mado the Guah deeper.
"UUncle Martin. where is your Mrs.? Barhara said I'd have to ask you 'cauee she didn't know." suaddenly aisked Ian's both started. He had been up in the attic to get some of his preclous carde. one of which he now held in tront of Martin Cortright's gaze.
"My Mrs.! Why, what do you mean ?" he asked in uncomprehendinge aotonimbwhen the little seamp had exploined. the otrupideot parsome in the worlid could met "And.". Ine ignore
"And," Ine continuod, "Diolk mad mo thought that P'r'aps is your Mra. and
Auat Leviata's Mr. had got loot to

## A QUICK HAR RESTORER

The Princes Hatr Refivecator does the





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Black, Green or Mired
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gothar wo could and them yor you, and Then thero'd be two more weddinge with pink ice croam. Wo'ro Eoing to look Marthe to helo use, cause sho found her alf. after he'd boen lost a great while Eme mava."
"And he wae right bere in the place, toa"" ohimed in Richard, "only ho dildn"t soem to see her. so p'r'ape yours aron't
for of, and we might get them in thme for of, and we might get them in thme to have the wedding to-night before you
go. Wouldn"t you go. Wouldn't you like to be in a wed-
ding. Aunt Lavinie ? "Mercy no, child IP
ejacculated. now as red es Jo she minot rose, while the boys ran of in the direction of Martha's. to ask her
where it was best to begin this import. ant quest, the prize for which was pink
ice Miss Lavinia did not look up for moment. and when she in them a strange onlightenment that shook her like an deectric bolt. as be arose and atood before her, maying :"You need never be old. Some prefer June strawberriee and other September peaches. that is all. When once in
Juns $i$ thought berries, I found they belonged straw other, for I loved your triend. who we Barbara's mother.
And I loved your friend, who is Bar bara's father.", Miis
ing and facing him.
"As they married each other, why may
not we ? know now why my morlat not we ? 1 know now why my work
has prosperec this summer and why lito hasemp grospereo this summer and why lito
sems good again. Ian's little fancy shoems good the truth.."
me "Our Mr. and Mrs. were not far of chen. said she. laying her hand on his.
while she looked into his face with of those rare smiles of unreserved con Adence that makee Lavinia Dorman moro men that than half the younger wo After a moment of romance the waked jup to the fact of the present and
its comical aspect: the bogs talk weddings brought that necessary eplioode quickly before tham.
turns? Shall we tell them all ?", he ro Martin. eagerly, and Miss Lavinia sat suddenly down agailn and realized that she still was in the world of reeponat bilities
it all at once. after-after the pink ic cream,"" she said, as he laughed at her
heasitation keeping it trom Barbara., but $\mathrm{I}^{\prime} \mathrm{m}$ t like
tired of talk Mrs. Grundy."
"Than let
week. or to-morrow, if you say unlead you wish time to feel sure, or perhap thusiasm.
Lavime to think it over !" cried Mise No, $\mathrm{I}^{\prime} \mathrm{m}$ sure I don't wieh to think . want to act-to do things my own way
and give no one a chance til it is done. What have I been doing
all my lite but. thinking or it to be a convenient and suitable ing what others will think if, wonderdon't: thinking that the if 1 do or was duty, often simply the disagreause it was disagreeable. Surely you have been
hampered by this perpetual thinking too and watching the thumb of cuatom too,
see if it points up or down. aee if it pointsd up or down. No. I'm
done with it. We've agreed to be married, so why not this very atternoon, and have the wedding over before
you go, as the boys suggested $\eta$, should hest hose hasible idea, though . I,
said Martin thardly dared suggest it., said Martin, tramping to and fro in ex
citement. "How shall we manage? Go
$\qquad$
 not know who might drop in here..' do
"Very well.".
said Martin, decisively, looking at his watch. "I have it it
Timothy is off to-day ; I will harness Timothy is of to-day; I will harness
the grays to the stanhope, as we cannt
wait to send to the stable. and wo wit drive over the back way by the Ridge
and be home again by ainner time. The rector of All Saints wae a clasemate other day, wo wo shall have no trouble
there."
horees properly gro worses proparly ?" asked Misa Levinia, willing at herialt, as Martin hurriled of to the stable.

In lese than twenty minutes the sober gray horses turned out of the atable yard and up the road upon the most ing strange was noticeable abous Noth turnout, except that the traces hung the trife loose, and the occupants sat an weually far back under the hood tor to after they hell parnoos. That is, until the lane and turned unto thouse in quented back hischway, then the untry leaned forward, gave a sigh of bothe and, looking at bach other, laughed "Do you realize that we are elophe like runaway achool children ?" mald minded Knick "we two hitherto nobeeo. I realize that I Uhe
ling very much, whatover it were do called," replich Martin, "ond mat to very considerate of you to apare mev ind do it in this way. The conventional effair is very hard on a man of miy years, all of whose contemporaries at I think of of it it is mately : besides, now I think of it. it is merely carrying out great-great-grandfather and my father's eloped in 1689 from Staten Island to the Boueric, and the boat upeet whe they were going back
"Mercy on us I" axclaimed Mise In vinia. "I hope we shall not upset I I wonder if the wheels are on securely. There it is again." As they reached
long hill. Martin the bottom of the loose on the horsese necke and, lowering the bood, looked back to see if he could And the cause of the Jolting sound aoning. Then panting, as of a dog rue mpatience. and pulled exchmation of ahort. for there, alternately ruming and lifting up their feet and swinging, wert the twins, clinging to the back of the Miss Lavinia gave a cry of dismay. Whare did you come from, and where are you going barply.
said Ian, es if his errand had keenow, ${ }^{\circ}$ of such importance that it was impoent ble she should forget it. "and shir wasn't there. so we thought we'd juest look for those people we said about, by ourselves. But we couldn't find any-
body, only a shiny back body, only a shiny black snake by the
road, and he rubber-necked at us and spit some 'Bore he ran away. Then saw grandpop's horses coming, and when you went by we hooked on, and-" ing for those people and found them, then we'd be there for the pink ice plementing Ian's story wheerfully, supgave out. take them home." said Miss Lavinien with a bigh. with us: it is too late to them come unless," he added, with a ring of mock your mind and wish time to think. As for me, I've turned my back on eves
thinking whethar they will be missed of "Scramble in, boys, and curl up here of these people you were searchinu for are going to be married this afternoom. We are going to the wedding, and you shall be best men," and the boys settled presently chuckling and whispering, but ed. and cried: "I spy ! It's you, Mrs., only you couldn't find her all summer till to-day" and he hugged hif friend around the legs, which were all ward until his head rested on Miss Ler vinia's knees, and he reached up hie cooing lipe to be kissed.
The rest of the ride to town was un-
eventful, except that when they reached the outskirts they met Jenke-Smild coach loaded with Whirlpool peopla,

## D. Ma



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carrled in strange company in hite marm, muany little pocket over alnce.
shout. as Martin took his and them a that wore the wodding ring wifts hand on mine : then he and father finith husged each other, for father did not forget those long-ago days of the stram. berries that Martin could not gather. Whon the axeitement had subsided and whom the over. Martha and Tim, to plained, came over to offer been a-gratulations,-at least Marthe comTimothy merely grinned, and, to th best of my belief, winked slyly of Martin, is much as to say, "We مain be long in knowing our minds, but whee tumble over us.". the the weemen fich
"Indeed, mum.
and that he'll lead you as yous fory. and Tim'thy hern lead you as easy a llib and no disreeppect intended," was Mrar tha's parting sentence: and then our monder as to whether Martin was ing to town, or what, was cut short by bie rising, looking at his watch, and to Lavinia : "Is your bag ready ? knnw we leave in an hour."
"Does Lucy expect you ?" I ventured
"Oh no. I shall not trouble her unth the day appointed. We shall go to tho Manhattan, I think.
"How about your coustri Lydia ?" enked father, who could not resiat a chance to toasa.
"II forgot all about her !"' exclaimed poor Lavinia, clasping her hands tracioatricken. "And I," said Evan, who had suddenly jumped up and rammed the hand into his side pocket. "forgot to

October 81. We have all been to Nor York to visit the runaway Cortrighte, an Evan callo them, now that they aro settled, and it is pleasant to see that The much belated happiness is ponetble. arranged ; they will remain in "Green wich Village," in spite of all advice to move up in town. The defunct beck yard is boing covered by an extenslon that will Eive Martin a fine library, with a side window and a scrap of left, that bob-tailed Josephus may not be deprived of the feline pleasures of the street or his orginial way of reeching it over the side fence: and tho fower garden that was, will be tho the kindly doctrine of compensation. Above is to be a large guest room for Sylvia and Horace, or Eyan and me, that there will be room in plenty whee by and by we bring the boys to see our Mrs. Jenks-Smith, who has formed o right, did all in her power to persundo her to be her neighbor up in town offering a charming house at a bargelic and many advantages. Finally becoming piqued at the refusal, she said :you know that this out-of-the-way streot is in the social desert?" "It may be in a desert, as you saty? said Lavinia, gently, "but we mean at least to make it an oasis for our of the pool."

We stood looking at the boys as they slept to-night. Strange thoughts will
crop up at times most unexpecielly. crop up at times most unexpectully.
Horns bluwing on the highway proparty at the Blufsival of a coaching to have money if you could, and go about the world when and where you please ${ }^{\prime \prime}$ I asked Evan, but he, shakcing ing my question with another-
I never thought that Mrs. JenksSmith's stricture would turn to a prayer upon my lips, but before I knew
it I whispered. "God keep us comlort" ably poor." Then Ian, feeling our presence, raised
himself in sleepy leisure, and nesting his cheek against my dress said, "Bar" bara, please give Ian e drink of water." the end.

JANUARY 29, 1914

## Ouestions and Answers.


 aree f tho viter.

 miciond.

Miceellancous.

## A Roarer

©Under Rule 46. which I enclose, would Chorse affected in the wind (a roarer) to entitled to compete? Could he be called sound?
R. H. L.

Ans.-Roaring is not an affection of the wind, it is caused by a shortening of the muscles of the lerynx. An animal of this kind. or one with broken wind or heaves, would likely be thrown out
the veterinarian examining as unsound.

Distribution of Estate.
i. Have the executors of a with twelve months to wind up the estate ?
2. Can they be sued by creditora, if any, before that time ?
ontario. a subscriber. Ans.-1. Yes, as to legatees.
2. They are commonly allowed a yoar as to creditors also; but circumstances may be such as to warrant thelr taking legal proceedings before the expiration of that period.

## Roadside Hedge.

can a Township Counci compel a Sarmer to remove or trim a tall thorn hedge hat causes the puinte roan to be who refiusea to allow the Council to put up a good, lawful, wire fence in place of the hedge, and will not allow the public to drive through his fields without pay Sor same ?
Ontarlo.
Ans.-Yes. Ample provision for such coases is made by The Snow Fences A
Onturio Statutes
Wife's Property Rights.
 - contract of marriage, being married in residing there, roturn to Canada. Have lived as man nnd wife, accumulated some of life. In the journeying the autumn this moman the event of a death, has thave, had the marriage been solemnized in the Province of Quebec by a clergyman? If not. what rights has she? The prospective groom, wishing to make - marriage contract for two thousand dollars on the "bride elect." not having any property now. would this contract lating property after marriage?
Ans. -1 . Yes.

F They were speaking of how easy it it human mind, when Senator Thornton, of Louisiana, recalled the skepticiem of utLittle
Was one of the the Senator explained, Louisiana school. recently, the teacher told the school the atory of the Roman who swam across the Tiber three times before breakiast. wondering imes involuntarily said the wondering Jimmy. Did you say thris "Why, yes, Jimmy," reeponded the trained swimmer could do it, tho you ?" of Jo, ma'am," was the smiling reply of Jimmy." "I Just wondered why he alde where he left his clothes.". ask papa.
Mother-Now, go kiss nursie good night, Little Helen-Don't want to thes theten Don't want to. She glaps

Helen-Well, you ask papa if she don

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Questions and Answers. Miscellaneous.

## Building Silo.

Please let me know, through the col-
umns of your valuable paper, which is umns of your valuable paper, which is
the better way to build a stave s.lo, round, or an octagon-shaped silo, either barn? A SUBSCRIBER, Ans.-The round silo is to be priferred A Sow Query.
I have a valuable registered. sow eigh months appears to come in heat rerularly, Sif will not allow service. Is there anything I can give her to remedy this condition? Her feed has been mostly oat chop, shorts, and mangolds, and she hua had fair exercise. She is quiet and gen A SuBSCRIBER. Ans.-As she comes in heat regularly is might be advisable to force service
Put her in a breeding crate, or use some such device.
Penalty for Non-payment of Tazes. Our township has added 3 per cent. to cent. during February; 5 per cent. during March and April.
have they the object to the system, but interest?
2. Is there no law against usury in
Ontario?

Ontario ?
Ans.-1. Yes.
2. Yes; but
(Cntario Statutes, 1904 Assessment Act (0)2 (2), (3).) provides for such percentages up to 5 per cent. on any instal!ment of taxes, or on the aggregate amount of taxes, also that the additional charge may be on the basis of a sliding
scale corresponding with the length time default is made, but so en not in the aggregate, to exceed the 5 per cent.
A Son's Wages. of yeurs after he becomes for a number the father dies without a will, can he collect wages, or will he just share the
same as the rest of the fanily? Ontario. $\Lambda$ SUBSCRIBER. wages were legal presumption is that exacted, and consequentiy the son could may be rebutted either by proof of an express agreement for payment of wages,
or of circumstances from which it may reasonably be inferred that there was an intention on the part of both father and gervices. The burden of proof, however is upon the son, and his own testimony mitted in court as evidence.

School Matters.
This school has been closed four year school section families moving out of the tlers here, but no children to go t
$\qquad$ of the school district in the Province o
Ontario. when there are men that oflice?
on by two parties when there are five 3. Can the school money be legally put in the bank in the names of the dis
trict clerk and treasurer, and the inter
est be drawn for est be drawn for their own benefit, while
drawing a salary for keeping the books" carriced in the treasury when there is no
school in the district?
$\qquad$
$\qquad$ 6. Can the clerk be trustee and clerk
niso, when there are other capable men 7. Can they refuse to take a man an
trustue who has a family living in the 8. What steps should be taken to ge Ontario into other hands? Ans.-1. Y
2. No.
4. 6, 7 and 8. Consult the Inspector
5. It would be irregular.

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gities in both Stallions and Fillee. also one French Coach Stallion.
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tookout for caked udders, for he knows the dairy for caked udders, for he knows
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a bie khe like this, but sour horge
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 lease mention. M. D. No. 1, On

Questions and Answers. Veterinary.
Digestive Trouble.
Pigs were
Pigs were born late in September.
They are fed oil cake, glutin meal, milk,
 hoanlong. They waik, and suddenly fall
hoo not fail in feesh.
one des.
 day betore it died I tried to give it some
medlecine, but could not open its mouth. Is it contagious
Ans.-This is digestive trouble that
effects the brain. It is not Purge each with 3 ounces Epsom salts, and follow up with 4 grains nux vomica and sift the hulls out of grain chopped, Feed lightly on grain. Give milk, shorts, that they get regular exercise.

Parturient Paresis. Cow calved Saturday morning. Sunand gave little milk. Monday morning she could not get up. We tried to lift her with ropes, but failed. I gave her pepper and ginger, and a pint of raw
oil. She died about oil. She died about 11 o'clock.
Ans.-This was a case of parturient
paresis, commonly called milk you had sent for a veterinarian, he would have inflated the udder with oxygen or
sterilized air, with an apparatus espesterilized air, with an apparatus espe-
cially designed for the purpose, and this cially designed for the purpose, and this
would have effected a cure. In these cases the cow loses the power of swallowing, and part of the fluid you gave
her no doubt passed down the windpipe to the lungs and hastened death. Cows
in this state should not be given anyin this state should
thing in the mouth.

## Miscellaneous.

Stopping Growth of Horns What is used for killing horns on what age should the calves' horns be treated ?
Ans.-Use caustic potash. Farmer.
Rub a litthe on the scars before the calf is two
weeks old. It may be purchased in the form of a stick or pencil.

Hens Eating Eggs.
What can be done to prevent hens from eating eggs ? was troubled all last summer, and now, when I have them shut
in, they are eating them again. in, they are eating them again.
Ans.-Clipping about one-eighth of an
inch ofr the end of the bill has been recinch ouf the end of the bill has been recfloor so that the eggs would not be seen.
It would nlso be be well to separate the It would also be be well to separate the
offenders from the rest of the flock. A correspondent advises as follows: you feed a handful of flour of sulphur to a two-quart measure of chopped oats and
barley, wet with skim milk or buttermilk, just so as to make it thick, and if you feed the sulphur for four or five
days, then stop a while and repeat at days, then stop a while and repeat at
intervals, I think it will have the desired results.'

Right of Watering Place. About ine right of a watering-place on his property. About twelve years ago, A property. Abing into possession and remaining three years. Since then 1 has
had possession, $B$ having undisputed use had possession, B having undisputed use
of watering - place until now, but not making continuous use of it, and not years. No money was paid between A

## 1. Has is any right now? 2. If not: why not?

2. If not; why not?
Ontario.

Ans.-We cannot give definite answers
o your questions without more informa-
tion than is contained in your statement of fncts. For instance, there is reference
to $n$ grant of the easement in question, but it is not stated how the grant was made, whether by deed or suggestion that there was a the grantee should keep a fence in repair. And there are other matters important
to be considered, and as to which the statement contains no information. We
think it likely that B is still entitled to think it likely that $B$ is stin enstion, but
enjoy the water privilege in quest not speak defnitely.

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## Stallions, Mares and Fillies, Imported,

 At the RepositoryCor. Nelson and Simcoe Streets, Toronto, Ont. Wednesday, Feb. 4th, 1914 Commencing at 1.30 p.m. Sharp.
Dr. T. H. Hassard of Markham, Ont., will sell without any reserve, a consignment of the highest-class quality, Clydesdale and Percheron Stallions and Mares, ever sold by Auction in Canada. All of them are imported, practically all of them are prize winners, including Champions and Grand Champions at leading shows in Scotland and Canada, representing the best blood of the breedš, every one thoroughly acclimatized and in the pink of condition. A big lot to choose from and every one high-class, also some Standard Bred Stallions, Ponies and Harness Horses, together with his show Paraphernalia, Heavy and Light Harness, Halters, Belts, Rollers, etc., as Dr. Hassard is out of the show buisiness for good. The whole making a sale of High-class Horses and Fittings never before duplicated in this country.

For terms, etc, write for a catalogune, which is now ready.
T. H. HASSARD, MARKHAM, ONT.

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## Percheron Stallions

The premier show herd of Canada. All ages, blacks and greys, weights from 1800 to 2150 lbs. Write for the greatest illustrated horse catalogue in Canada
HODGKINSON \& TISDALE, BEAVERTON, ONT. G.T.R and G.N.R. Railroads, Bell 'phone, No. 18.

3CLYDESDALES---STALLIONS À FILLIES WE have again landed at our stables a large and choice collection of Clyde Stallions
and Filles of stricty high-class show cailbre We never had a at that mesured up to the standard of this bot. bisis shawhy cilibre, We. Wene never hadd a atot that measurud up SMITH \& RICHARDSON :: COLUMBUS P. 0. Imported Percherons, Clydes and Shires

My 1913 importation from France and Scotland are now in my atablee fillies, come and see my offering: 30 head to select from. Atso Hecirnewe and French Coach stallions. I have all ages of beet breeding and hige est quality, and the prices are low.
J. E. ARNOLD, Grenville, Quebec

TOPPERS IN CLYDESDALES AND PERCHERONS I have just landed a big importation of Clydegdales and Percherons, if you want a
big ton stallion with the best of quality, come and see me, I can dhow you the best lot
of stallion of stallions you ever saw. BOLTON, ONTARIO
Clydesctales of Shires If you want Stallions, Filliee or Foals of the aboue Stud, Cheehire, and home-bred of the most fashonable strain, See and select from the latree stock
now offered. Prices and terms will please. D. McEachran, Ormshy Grange, Ormatown Imp. GLYDESDALES and PERCHERONS Imp. The Season is advancing, select your horse now. II can show you Clydesdale Stallion
with size, quality, and breding, second to none in Canada, for about half the usua price, and the same in Percher,

\section*{CMount Victoria Clydes \& Hackneys s. ion or filly, or something that has won and can win again in Hackney stallion or fillies,

visit our barns at Hudson Heights, Que.
E. WATSON, Manager, Budson HAULAY, Proprietor Matight, Que. <br> 


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

There is no longer any 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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CANADIAN BRED CLYDESDALES our stables; consisting of stallions from one year to
to six. and fllies from one to 5 years; prices and
quality hard to beat. Thos. McMichael \& Son,
Seaforth, Ont.
Sell 'Phone Connectio

Aberdeen-Angus of Show Form the eeaon my offering in young bullo and helfere.

Spruce Lodge Phorthorns \& Leiceestere





Questions and Answers.
Veterinary.
Partial Paralysis.
My sheep grind their teeth, shake their
heads, eat little, and cannot walk well.
They, seem to be weak on their legs.
M. Z.
Ans.-This is partial paralysis. It is
probably due to digestive derangement.
Purge each with 6 ounces Epsom salts
and it ounce ginger. Follow up with 8
grains nux vomica three times daily.
Feed on good clover hay, whole oats,
2. Take 3 ounces each of sulphate of emetic. Mix, and make into and powders.
Give her a powder every night and morn ing. After the last has been taken, give her a purgati
drams ginger.

| Skin Disease. |
| :--- |
| Last fall my mare became itchy and |
| rubbed mane and tail. Later the trou- |
| ble extenced to ears, face, neck, wiithers, |
| etc. The hair came out in patches. |
| She rubs herself whenever she gets a |

## chance.

$\qquad$
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ceases. Clothe warmly, and tie so that
she cannot lick herself aiter rubbing until
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$\qquad$
Tuberculosis.
About three months ago one of my
cows began to fail and had a nasty, diy cough. Fearing tuberculosis, I had my
veterinarian test the herd. The suspect-
$\qquad$
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$\qquad$

## A"365" Day Liniment



## Gombault's Caustic Balsam

The Great French Remedy Will Do It

## 


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from healthy cows, it is highly probable
they will remain healthy.
3. This is possible, especially in the
suspected one. When the disease has
recter
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 Ontario. MOORE. Managet. SHORTHORNS AND CLYDESDALES
 A. B. \& T. W. DOUGLAS $::$ L. D. Phone $:$ Strathroy, ONT
 SHORTHORN BULLS FOR SALE
8 head from 10 to 18 months, , rred from coww which are from Imported dams and alred in
in BLAIRGOWRRII Pand Cotemwold emee bred to Imported ramin atabling cattle.
JOHIN MILLER. Jr.. ASHBURN. ONT. Springhurst Shorthorns

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MEADOW LAWN SHORTHORNS $O$ R RECHEST $A N D$


THE FARMER'S ADVOCATE
o. and Station Campbellford, Ontarto WOODHOLME SHORTHORNS
 the low thick Eivd. Write me your
Gant. M. FORSYTH Oat.
North Claromons

47 SHORTHORNS
 JNO. ELDER \& SON. HENSALL, ONTARIO
Spring Valley Shorthorns A few of the best young bull prospects we ever had.
They will please yout. Will sell lemalee toor Yisit
the hherd we think we can suit your Particulars
on applicat on application
R. R. No. 1, Drumbo, Ont.
*Shorthorns For Sale 2 yearling bulls of the right kind, 2 high-rlass
hedrr headers, 12 monthen, one from imp. cow. 4 boll
calves, allso young cows and heifers, some good mell
milling, astrains.
Stewart M. Graham, Lindsay, Ont. 1854 Maple lodge stock farm 1914 Shorthorns and Leicesters mostly most excellent lot of young rams for sale,
imported Connaugh Royal,
Something very choice in young bults. House one A. W. mile from Lucan Crossing G. TMITH, RAPLE LODGE. ONTARIO

SHORTHORNS FOR SALE I have two extra roan bulls; fourteen and fifteen
months old, one from Imp. dam. Also some
heifers, all bred in

Dungan
Dunganon Ayrshires For hagh






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JANOARY 29, 191

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EVERGREEN AVENUE
STOCK FARM SHorthorns. One Imp. Roan Lady bulf tor

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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
of choice heifers, all ages.
WM. SMITH
Shorthorns
Fourteen good young bulls, from 6 to months old, and a number
females. Would appreciate your enquiry for same. a. CARGILL \& SON, Cargilt, Ontario SHORTHORNS COTSWOLDS, BERKSHIRES

P.O. and
 about three months. CHAS. E. BONNYGASTLE
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$\qquad$ hotel accommodation-at Norwich, and
THE BREAD LINE.
(By Berton Br:llmy, in Toronto News.)
$\qquad$ Waiting their had
stranger hand,
Their weary limbs with eagerness aquiver. Hungry and heartsick in a bounteous
land.
$\qquad$ With limbes, ill-clad and fingers stifl and Shuflling and stamping on their pavement
$\qquad$
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$\qquad$ Ot strange new marvels every day and
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plunder,
These broken men must stand in line-


SHIP US YOUR CREAM
WT 1 Supply cans and pay all emprees chartee Send a atatoment of each chipment. Pay every two weeke. WRITE DOE JULL PARTCULARE
THE BERLIN CREAMERY COMPANY
berlin, canada
Shorthorns \& Clydesdales
We have reven yearling bullo and seven bull calves from 7 to
12 month. Al redo and roann, and of chocice breedingo We
it
come extra. good imported marce for sale, also some foal.. If lat
ereoted wite for catalogite of their br eeding.
W. G. PETTIT \& SONS, FREEMAN, ONTARIO Bell Phome

100
SHORTHORNS IN OUR HERD

 Salem Shorthorns-As ever in the front rank. Special and price to suit any buyer.

Ayrshires \& Yorkshires-aybywide ALEX HUME \& COMPAMY, $=$ GAMPBELLFORD, R. R. No. 3.
P. D. McARTHUR'S AYRSHIRES


THE SALE OF THE SEASON
The Third Annual Sale of the SOUTHERN ONTARIO CONSIGNMENT
Tuesday, Feb. 10th, 1914

## HOLSTEINS

Most of them in calf to the best bulls in Canada. Every animal offered Most of them in calf to the best bulls in Canada. Every animal ofered
will be sold subject to tuberculin test, and also subject to inspection. Everything guaranteed as represented on day of sale. Cattle may be seen at the stable the day before sale, and the co
Hotel, where they will be pleased to meet you.

MOORE \& DEAN, Auctioneers
R. J. KELLY

Tillsonburg, Ont.

Hostein - Friesians - Bulls ready for service. Prices from $\mathbf{\$ 7 5}$ to $\mathbf{\$ 1 5 0}$, also. Prices $\$ 25$ to $\$ 75$. One with dam's record, 16.46 butter at two years.



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WE SELL DIRECT. GET PRICES ON
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Cattle and Sheep Labels
 Sheter or hoo dac
Not obstace or duy

 herd sire for sale
$\qquad$ to the frit san of counct Calamis Mercedes aro oce thet candian Brod two-yarolid to Wane Noine whos enas have iric

 more high record cows than any cow in Canada.
Buli is arge. mostly white and leavengood stock.
For quick sale, will be priced right. For quick sale, will be priced right.
WM. A. RIFE $\quad: \quad:: \quad$ HESPELER, ONT WILLowdale stock farm Holsteins \& Clydesdales

 bdgar dennis
The Maples Holstein Herd

 R. R. No. 5 W WLIBUUN RIVERS.

For Sale ${ }^{- \text {Reg. Holsteins-A few choice }}$ ved Myay also troung cows, dute to calve Marth A. BRY ANT. Strathroy. ont.

## HOLSTEINS

 boo, Warkworth, ont. Cmp beillord Station DON JERSEY HERD OEECH Fount


## Gossip.

 shires and clevpespales of the Hichest quality.McEachran, of ormet whose tame as. one of the most expert judges and one of the most reliable authorities of dratt horses living in this age, shot connined ho this side of tho
line, nor to this side of the Allantic. line, nor to this side of the Allantic,
would a almost seem to have entered into Wourd almost secm to have enterect into
$a$, solemn compact with himself to the efrect that each succeeding year's impor tation in breed characterisisiss, draft con-
tormation solidity of color and royal breeding, musis outclass all former shipuents, for tive of this paper has the represente. torner years been privilieged with an inspection of the many high - class horses
 wo seen so chicice a ot or the crenm of
both tho shire both the Shire and clydudsalale tons of
the breeds in any one stable anywhere than those in the Doctor's stable at the
present time, and imported by him the past fall. An enumeration of the entire lot of upwards of forty is a task we
could not attempt, but those we shall mention can be taken as representativ of the entire lot, particular stress, how from a Canadian's ideal, of the Shire Bramhope Freebooter 1097 is a bay yea ling Shire stallion, sired by Cosby Albe.t. dum by Lord Byron of Batsford. This
i. an exceptionally choice colt, very
i. large, and splendidly choice colt, very anderpinning is faultless. He is one
the best Shire colts ever imported close second for big size, comeliness, and good ground work, is the bay yearling stallion, Bramhope Advocate 1098, by
Rickford $\begin{aligned} & \text { Coming King, dain by Red }\end{aligned}$
Comer Rickford Coming King, dam by Red
Lynch Forest King. They are a grea pair of colts, and a decided acquisitio Prominent among the Shire mares an fillies is the unbeaten two-year-old, ol
Hough Carrie 972 , a show filly of a hig Hough Carrie 972, a show filly of a high
order, big, smooth, and particularly good at the ground, sired by Haithby Tom
dam by Southgate Honest Tom. An
other god Shire other good Shire filly. with exceptional size, is of underpinning, and up to a big
Princes three-year-old, Crumleigh Princess 969, by Lynn Collin, dam by Ercall Ladd. This is one of the best
Shire fillies in the country. Another remarkably well-bred one, and with grea
size, is the bay two-year-old, Brat
Vis Victoria 970, by the unbeaten four year
champion of England, Gaer dam by Prospect Prince Albert, grandan by Dunsmore Masterman. With these
illustrious sires, and four numbered dams, she is a most desirable brood mare. I
Clyde stallions there is the bir draty,
$\qquad$
$\qquad$
$\qquad$ Pride. He is one of the big kind s
much needed in Canada, with strong fat five and well-sloped pasterns, and ha
numbered dams. Another yery brown six-year-old, Favorite Tyle, is the, a son
of the famous Raron by the great sire, Royal Favoritu, kran-
dam by Master Robin. Several others
imported and imported in dam of selpger age, make a big and high-class class breeding and individuality, we have
only space to nicest kind of quality, a bay, ten years
of age. one of the rreat show Wrampion, Marmion, dain by Baron erandarn thy Lord Frskine. Royal breed
ms. and a royal mare. Another hish
lass show fill.

# Grand Dispersion Sale myzararen stock fram purarard HOLSTEINS 

Forty Females and Ten Male At the farm, NORWICh, ont

## Wednesday, Feb. 11th, 1914

This is the first time in the history of Holsteins in Canada that a prizewinning herd such as we have was ever offered at public auction. This herd in 1913 won nearly $\$ 1,500$ in cash prizes, besides two gold medals and several diplomas. Every animal in the herd is a good individual. Every cow is a first class producer and a regular breeder. We haven't done much testing, but we have cows with 7 -day records up to 25 lbs but ter, 3 -year-olds up to $221 / 2 \mathrm{lbs}$., and 2 -year-olds up to 17 lbs The cattle, without a single exception, are all in a healthy thrifty condition and are sure to make good

Among the lot are: One yearling heifer (bred), and two bulls nearly ready for service, sired by a son of the new Canadian champion cow, May Echo Sylvia (over 34 lbs. butter 7 days); wo daughters, two granddaughters and three grandsons of Madame Posch Pauline, 101.3 lbs . milk one day, 660 lbs . seven days and 2,72 los. in 30 days; 26.74 lbs. butter seven days, 108.45 lbs .30 days, at 4 years of age; six daughters and four sons of Prince Abbekerk Mercena, grand champion bull at oronto and Ottawa, 1913

Don't miss this sale, you may never have another oppor tunity of securing your choice of so many good Holsteins. Everything offered will be sold to the highest bidder

COL. WELBY ALMAS, Brantiord, Ont.
MAOOR E. R. ALMAS. Norwich, Ont. Auctioneers. Norwich, Ont., Soc. of Salh
A. E. HULET

Norwich, Ontario
Royalton Stock Farm Holsteins
number of cows and heifers for sale, bred to Royalton Korndyke Majo orders for bull calves from above bull at in one day. Am booking age and dam. All bulls of serviceable age sold. E. C. GILBERT, ST. THOMAS, ONT.

Fairview Farms Herd
Offers for sale: A son of Rag Apple Korndyke 8th out of a daughter of Pontiac Korndyke with a record of 27.72 lbs. in 7 days, averaging $41 / 2 \%$ Write me for description and breeding. Calf is nearly ready for service E. H. DOLLAR, HEUVELTON, N. Y. (near Prescott, Ont)

HOLSTEIN CATTLE
The Buyer's Opportunity
We have more Catcle than we can stable. Some of the finest young bulla and heller
offered; their breeding and quality D. C. FLATT \& SON, R.R. No. 2, Hamiliton, Ont. Lone Ditance Pbone zer Riverside ${ }^{4}$ Holsteins
 Holsteins
W. RICHARDSON

HOLSTEJNS-I can supply a limited number of hish-producine NOL LINS - i can supply a limited number of high-produciof W. E. THOMPSON me know your wants.
W. E. THOMPSON, R.R. No. 7, Woodstock. Ont. L. - D. 'Phone.

HONTM $\begin{aligned} & \text { For quick sale a number of extra choice bull }\end{aligned}$
W. T. WHALE \& SONS,

GOLDSTONE, ONTARIO
T? WEAVER CREEK HOLSTEINS AND PERCHERONS
5 When wanting some right nice Holsteins of any agee, workera, aEd bred from wortion

tented daughterg. Several lmported cowi and B. H. Bull \& Son, Brampton, Ont.

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How English Farmers Feed Horses.


Oldeat established flock in America. Our present
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Alloway Lodge Stock Farm Southeen Angus Cattle Collie Dogs
A few heifers and young cows in calf to the Chicago
winning herd bull
strong yourd bor bull
Four as as well as some very
promising puppies strong young bulls. Four very promising puppies
from imported stock are also offered.
ROBT. McEWEN. Byron, Ont.. Near London Orford Down Sheep Shorthorn Cat-


HILTON STOCK FARM



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Poland-China Swino for sale from bhe
 Tamworths - Sows bre for for in

Cloverdale Large English Berkshires
Ho matter what your needs in Berkshires mav be
 Hampton, Ont., Durham Co.

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 Poultry Pay Better with
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 gain weight and vigor. Increases the yield means you save a month's feed and
of milch eows three to five pounds a day monthis labore You can bring six pigs to
besides enriching the quality of the milla.
the pink of condition at the cosit of 51.50 . ROYAL PURPLE is not a food. It is a con- Sters treated in the same way cost no
ditioner-the best ever sod. If there was more than $\$ 1.00$ each to put in prime state
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 W. A. Jenkins Mfg. Co. London, Canada Maple Villa Oxford Downs and Yorkshires This fall I have the best lot of lambs I ever bred. I have plenty of
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J. A. CERSWELL, Bond Head P.O., Ont.

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> ELMHURST LARGE ENGLISH BERKSHIRES
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HAMPSHIRE SWINE |Prize Chester White $\begin{gathered}\text { Swino-wimes } \\ \text { High }- \text { clam } \\ \text { in }\end{gathered}$
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 herds of England. Have two choe prize-winning
Ior sale 10 mounths old, out of large, deep-millisis

high-roducing dams.
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BERKSHIRES
 and Guelph. prizes at Highcleres and Sallys the both sexes any age. Adam Thompson


THE days of hand-made wood shingles, such as our grandfathers used, are past. To produce such shingles to-day would cost far more
than the best galvanized steel shingles. The ordinary sawn shingles of to-day are a miserable substitute. Their lifetime is short because the rough surface holds water like a sponge and collects
chaff and decaying vegetable matter which quickly rots the wood.

Galt Steel Shingles make the best and most durable roofing you can buy. They have special patented features possessed by no other steel shingles on the market.
Write to-day for literature and 'valuable information, which may save you hundreds of dollars. Simply write the word "Rookng" on a
nostcard, together with your name and address.

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Richard and Pine Sts., Winnipeg, Man.

## FENCE FOR SALE

2,900 rods 7 -bar 44 -inch all No. 9 fence, 9 stays to rod, 40 -rod rolls; in lots to suit. Price 20 c . per rod Also 1,740 rods 8 -bar 51 -inch, all No. 9,8 stays to rod, 49 -rod rolls, 23 c . per rod. f.o.b. Walkerville
Cash with order. This fence is highestg trade and perfect in every particular. It is. special only it
height. Also have small amount of 9 and 10 -bar. 'The Empire Fence Export Co., Limited, Walkerville, Ontario.

A REALLY GREAT LINE
Famous "Rapid-Easy " Grinders
A size to suit YOUR power-small or large-and doing more work
with SAME POWER than others. with SAME POWER Man ortitre WONDER", for your $11 / 2$ to
 "R.p. "RAPID EASY", No. "A", 6 inch plates,
to 5 h.p.
"I have given the "Rapid-Easy" No. A-6" Grinder a GOOD TRIAL with $31 / 2 \mathrm{~h}$.p The Grinder TION, and GIOES ENTIRE SATISFACany intending purchasers."

Sgd. David McClain, Tecumset

> ecumseth Simcoe County
"RAPID-EASY" NO. 1,8 -inch plates- 5 to 8 h.p. "I am DELIGHT-
with the work the No. $1-8$-inch "RAPID-EASY" GRINDER does in ED with the work the
ALL KINDS of grain.

I run it with 6 h.p. gas engine, and grind from 25 TO 30 BUSHELS of grain per hour, and DO FIRST CLASS, WORK. It gives me pleasure to offer my testimony about this machine." Sge Jesse Copeland, Bond Head, Ont.
"RAPID-EASY" No. 2-10-inch, 8 to 15 h.p.
"I have been running the NO. 2 - 10 -inch "RAPID-EASY" GRINDER
for years, and CAN SPEAK IN THE HIGHEST TERMS OF ITS WORE,
A few days ago I ground Two TONS OF BARLEY in TWO AND ONE HALF HOURS, using my threshing engine-and DID FIRST CLASS
WORK.
Sgd. Frank McArthur, Bradford, Ont.
"RAPID-EASY"' NO. $2 \mathrm{~A}-12$-inch plates- 10 to $18 \mathrm{~h} . \mathrm{p}$. and still heavier Grirders for Threshermen-Nos. $3,3 \mathrm{~A}, 4,5$ for Custom Mills, No.
6, 11-inch: No. 7, 13 -inch and 16 -inch "Atrition" Grinders.

Ask for catalogue or circulars. Tell us the power
youl use and we will advise best machine.
J. FLEURY'S SONS,

AURORA, ONTARIO
Medals and Diplomas. World's Fairs Chicago and Paris.
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Winnipeg, Regina, Saskatoon, Calgary, Edmonton, Lethbridge

## Gossip.

last call for t. h. hassard's The big sale of T. H. Hassaru, of Mronto, on Wednesday, February 4 th, when he will sell forty imported Clydesdale and Percheron stallions and fillies, all of them the cream of the two great dratt
breeds, will be the biggest and most inbreeds, will be the biggest and most in-
teresting event in the line of horse sales ever held in Canada.
the times in
demand, and high prices for draft horses
in the immediate future.
Canada is in the illinediate uture. anadia is
pushing ahead at a rate unprecedented in
the history is the force that provides the notive power. Look ahead two years from now
and/ see the biggest demand for heavy horses ever experienced in this country. high-class breeding stock as will be such at this sale will not be a money-making proposition. Every animal, male and female, to
gage-lifter

## I. D. Mcarthur's ayrshires. Few Canadian herds of Ayrshires have won so many of the premier honors at the leading shows, from New Brunswick

 Que, and few Canadian herds to have so many prizewinners among theirnumber as are among the fifty head that nent among which is the noted champio P onds-a-day cow, Buttercup, with a R. O. P. record of 10,866 in ten months
The official R. O. P. records of the her range from 10,000 to 13,110 lbs., and
practically all in milk are in the ords. As chief stock bull in strvic, the the
great and proven sire, Imp. Whitehill Freetrader, winner of many firsts and championships, still holds sway. He is
rising four years of age, his heiferg are
coming to breeding age, and he is for


PEERLESS-PERFECTION


Here's Proof of Our Statements


## BRANTFORD BINDER TWINE <br> Brands: "Gilt Edge," "Gold Leaf," "Silver Leaf " and "Maple Leaf "

Brantford Cordage Co., Limited, Brantford, Ont.

Floss Morton, with a record great com Wis. milk and 555 of butter-fat, and for xire he has the R. O. M. bull, Imp. Hayd
muir Milk Ihecord. Also in service the equally well-bred, White Chittein of Colloge llill, out of the great cow, Buttercup, mentioned above, and sired by no. M. bull, Imp. Auchenbrain Aseveral if the highest testing two-vent old heifers in the hecords. This, to gother with the fact that his dam's but-ter-lat test averagec 4.4 zer cest., maked
him one of the most promising sires in Canada. Anything in the female end of the herd is tor sale, and among
the young bulls for sale is a yearling sired by Jupiter of Kirkcudbright, and in the t.rst with over b,ooo lhs. of milk, nnd some weeks to run yet, and her
nverage test ${ }^{\text {to }}$ through is 5.30 per cent. of butter.fat, the highest being 6.7
per cent. This kind of breeding in herd-header is seldom offered for allo. Another yearling is a brother to the
groat two-year-old heifer just mentione as the dan of the other one. Severalk
others for sale are sired by the stoek bulls mentioned, and out of ollicial-recorta Clams. Write Mr. Mcarthur your want
He will usc your right he will use you right.
crippled.
A big-hearted Irish politician in : Western clty had just left a theater one night when he was approached by a beff-
gar, who said:
rill face: A ilttle charity, sir. for a poor
 saying: "And how are you crippled, old man?".
."rin gar, as he made of
mustn't say so.
"Did I tell you about the awful fright
I got on my wedding day?" "Shan should
"S-h-my dear. No woman

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