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No. 961


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against rust, and their buyer against $\begin{aligned} & \text { ing neediess. } \\ & \text { most vinglal thing about a metal } \\ & \text { shingle-the lock is a point you NeVer }\end{aligned}$ Fire $\quad \begin{aligned} & \text { against rust, and their buyer against } \\ & \text { roof-troubles. No other metal shingle }\end{aligned} \begin{aligned} & \text { shingle - the lock is a point you NeVer } \\ & \text { should most carefully look into be- }\end{aligned}$
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Proof $\begin{aligned} & \text { rust simply cannot get at the nails. } \\ & \begin{array}{l}\text { Preston Safe-Lock } \\ \text { with the warranty }\end{array} \text { that-if if properly }\end{aligned}$ ut on, according to simple directions - LIGHTNING Within ten years. These roofs are easily good for fifty years reliable roof-

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The Columbia Hay Press



## EDITORIAL.

Would it not be a paying branch of live-stock husbandry to make the rearing of dairy heifers a
specialty on certain farms in every dairy district? "We view with apprehension." How often propriate it is ! Nine times out of ten the apirehension is pure nervousness.

At the present rate of forest destruction in Ontario, said Peter McArthur, in a recent address, a woodpecker flying across this country will have

Everybody we have ever spoken to who has information thus gained about his cows surprised him. Especially is this the case where milk is periodically tested for fat, as well as weighed.

Canadian wool producers, says Dr. Rutherford truly, must exercise vastly more care in growing,
washing, shearing and marketing. Wool produced in Canada to-day is full of all sorts of foreign bodies. Success consists largely in the little things
The annual drovers' chase all over Ontario for cows to supplement the herds in the dairy dismay suit the dealers and the railway companies, but is it a good and economical plan for those most of them believe they could raise better ones. In moving a vote of thanks to T. B. Caldwell, of Lanark, who addressed the Dominion Sheepbreeders' annual meeting so acceptably, a naive suggestion was thrown out that Mr. Caldwell should acquaint fellow manufacturers who use
nothing but Canadian wool with the fact that nothing but Canadian wool with the fact that Dominion Sheep-breeders' meeting another year.

Read over once in a while the standing anno:incement on the second page of reading matter look at it, and consequently ignore rules, to their disadvantage. For example, hundreds of questions a year make a fluttering descent to the waste-paper basket because unaccompanied by the
full name and post-office address of a subscriber. full name and post-office address of a subscriber.
Read the rules.
The fact, that wool was not placed in the recitocity schedule, while wheat was, is attributed mannfacturing industry. In order to retain their own greater protection, the woollen men stand to
sustain the smaller duties of the wool producers, sustain the smaller duties of the wool producers,
who are, in effect, used as a cat's-paw. But the day is coming when, organized or unorganized, the axe will fall upon the woollen tariff in the inche (1) the woollen wearers.
Free tracle is fair trade. There are some like (ouma adopting free trade, while an older, natopting free trade, while an older,
nike the United States, maindities, but these arguments do not apHocal free trade. Subject only to the - ireely we trade with all nations, the bet-
mpocity in farm products is an unquesarrocity in farm products is an unques

By means of the Canadian Railway Commission, service and transportation rates have been
materially improved in this country; but it will materially improved in this country; but it will
probably be found that reciprocity will prove a still more effective spur in accelerating a downward tendency in East and West transcontinental rates and improved freight and express service, particularly needed in the live-stock and fruitgrowing interests.
The resources of fuel in the peat bogs of the central Provinces of Canada are enormous, says Dr. Eugene Haanel, Director of Mines, Ottawa. He estimates that there is contained in the known
bogs, covering 12,000 square miles fuel suffient bogs, covering 12,000 square miles, fuel sufficient
to supply over 5,000,000 families for 100 years A peat-fuel plant, such as is used in 100 years. Russia, has been erected on a bor near Alfred Russia, has been erected on a bog near Alfred,
Ontario, which last season manufactured 1,600 tons of peat fuel in fifty days. The cost of this fuel on the field should not be more than $\$ 1.50$
According to friendly newspaper reports, the packers of Ontario and Quebec expressed to the Government a fear that, in seasons of high prices across the line, they would be unable, under reciprocity, to secure a supply of hogs in Canada,
and would have to close down their plants. They and would have cose down their plants. They had better not said that an is preventing us making the most out of our hogs, it is another cood argument for reciprocity. We'll take all chances with the Big Four. American farmers find them first-class ormer
One of the best incidental advantages of the reciprocit, discussion in the United States is that it is further disrupting one of the established political parties. We would welcome in every country a state of fux that would re-align political parties, causing electors for once to cease adher born into them, their judgment. Even though the judgment be warped, it is better to exercise it than to follow vacantly for life the crack of the party manager's whip. Parties do make fools of us all.
Every tinue we travel over the Grand Trunk between Brantford and Hamilton, those steep, bald hills fairly shriek out the word "alfalfa." do is no shadow or dothet but that it would ing the soil from destructive the gymnastic exercise of cultivating them and furnishing an immense quantity of the best hay or pasture produced on our farms. There are a few moderate-sized hills of this kind on "The Farmer's Advocate" farm, and they will grow alfalfa as soon as they can be gotten into proper
As illusirn
As illustrating the tendency of commerce to flow towards certain heart centers, which act as grad ing and distributing points, Dr. J. G. Ruther-
ford, discussing the question of wool-marketing at the Dominion Sheep-breeders' meeting inketing at remarked, incidentalfy that when the foot-and mouth embarro was applied a couple of years ago, he found that they were closing down the tanneries in this country, and also boot and shoe making establishments. It developed that the calf skins were purchased from the other side. Manufacturers complained that they could not buy 11 the calf skin in any satisfaction, but that all the calf skins in America go to New York
State, and are sorted and graded there.

## The Fapmer's Park.

$\qquad$ situated a few miles outside of the corporation limits, there are several large blocks, and many smaller clumps, of natural timber-maple and grow pretty much as it will. A great deal of tree-planting has been done on the sections of the park that were bare when taken over by the city and there are also many large and well-kept fower-beds, laid out, no doubt, in the most artistic style. It is interesting to watch the crowds who go there for an outing select the place where they shall have their picnic meal. The groves of natural timber are invariably preferred to the situations which have been adorned artificially. There seems to be a charm in nature which. all he art or man cannot equal. The fower-beds clumps of planted trees; but for quiet rest and enjoyment, the city dwellers, and those from the country, as well, instinctively choose the places less adorned and trimmed, where nature has largely had her own way. The ground is not leve!, the trees are not of even size, some of them are gnarled and ugly, and they stand utterly without regularity; but, in spite of these seeming defects, or, perhaps, rather because of them, such spots are preferred. As Goldwin Smith used to say, No one wants the world rolled flat and painted red."
columns pointing articles have appeared in our monetary standpoint, it would be a good policy for farmer to spare and care for his wood-lot. As in the early days pine timber of the finest quality now worth a fortune) was thoughtlessly cut and used for the commonest purposes, as if the supply were inexhaustible, so a similar mistake in regard to removing hardwood timber is being made when farmer decides not to wait for the inevitable sentiment should also have weight. To slaughter a block of forest is to take away a great deal of the charm irom a landscape, and to blot out a spot of natural beauty which cannot for generations be replaced. A rich man will spend great sums in order to have his gardens and grounds kept neat and trim, no money return being looked for. A block of protected natural forest, with und trall tree-trunks and dense shade, its tender undergrowth, and the varied flowers and herbage beautiful, and yet it exceeds in charm the finest artificial surroundings, no matter how expensively kept up. Such a luxury is open yet to most farmers. Is there any reason why they should

These remarks have been called forth by a priate letter from an esteemed contributor who bewaild the fact that in his neighborhood several good wood-lots have been sold outright this winter, and other farmers are thinking of selling heirs." He conferses that, "I value the trees more frorn the æsthetic standpoint than any the mass of ested in the preservation and improvement of the wood-lot: in short, alive to their all-round wellfare. Here and there," he says, " throughout the ownship a man will be found who has shut the stock out, but the vast majority have their eyes oo close to the dollar to see the wealth that lies
arther away." He does not object to the sellig of mature timber, but has been roused by the thought of those " who are contemplating the destruction of their woods at one fell sweep." He
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brought to bear on such, to enable them to
the matter less narrowly
agrees with this s Advocate" most heartily agrees with this correspondent in his regret at
seeing whole farm forests sold off, and in his fear lest such a practice should be come even more common than it is. It would strongly urge that those who wish Ontario to selves in in ontario to pass by-laws exempting protected wood-lots from taxation, as provided for in the Downey Act. The agitation necessary to secure such byquestion a live one

## Apple-growers Want Recippocity

 Canadian fruit growers as a whole are apposed recifrocity. Apple-growers, realize that they have much to gain thereby. Jas. E. Johnson pointerout, upon the occasion of the farmers' tariff dele gation to Ottawa, that the opening of the American marke:, would be a fine thing for Canadian apple-growers, particularly in some seasons, a.
there are certain varieties, such as Greenings there are certain varieties, such as Greenings,
Belleflower and Talman Sweets, which sell to better advantage in the American than in our own the Georgian Bay Frnit-growers, of Manager of proposed changes, there is more interest taken in the apple industry in the Georgian Bay section planted with , yrieties of apples of acres will be
American and Western to the plums, they have had many inquiries in septem.
ber from such cities as ('incinnati, Baltimore. ber from such cities as Cincinnati, Baltimore,
Washington. New Orleans, New York and Chicago.
So, if under reciprocity, Canadinn the benefit of early fruit at reasonable, prices Canadian growers will have an improved oppor
tunity to market some of their later fruit across the line. This goes to emphasize the view wo
have expressed, that under reciprocity, Canadial fruit-growers would be little, if any, disadvan-
taged in the long run, while consumers on both
sides of the line would be benefited.

## Landlord-and-Tenant Bill

P. P., in the Ontario Legislature, consolidatM. P. P., in the Ontario Legislature, consolidat-
ing the Landlord and Tenant Act, the Overhold ing 'Tenants' Act, and certain other statutory provisions affecting the rights of landlord and tenant. There are many verbal changes intended
to clarify the law, and an effort is made to cat out all obsolete provisions and generally to revise the law up-to-date. It practically introduces no new principle. Under the old law, treble damage were recovered against any person guilty pound breach, or rescue; this is to be modified and the penalty proposed is twenty dollars and actual damages. Before the Act finally goes through, there will probably be some alteration in he clauses as they now exist, providing for dam clause will probably provile that the damages shall be whatever the court may determine reasonable, rather than the arbitrary amount of double the value of the goods shown

## Best in the Empire

$\qquad$ pay for "The Farmer's Advocate Jan. 30th, 1912. I may say that I get
agricultural papers from Australia. New Zealand, England, Scotland and Ireland, and not one of them has the practical information that I find in "The Farmer's dvocate." THOS. BRADSHAW. Orange Free State, South Africa.

## Two Great Problems

Two things must be done if we are to keep a
reasonable proportion of the wide-awake, educated children of this modern generation upon the land. First, we must cultivate a deeper appreciation of country life, imparting, at the same time, a busisons to make more money on the farms, and mare it more easily than we have done farms, and make we must suffiuse through the rural districts as many as possible of the advatages of city life adapted to rural conditions. Both these problems are immense. Both must be matters of ey lution or growth. At present we are so far short of either that the heights of future attainment look dizzy in the distant blue
To say that the real fascination and beauty appreciatesomeness of agmiculture are not half utter but a fraction of the truth. Even to-day we hear the independence of the farmer's life held of as one of its chiefest privileges. As a matter of fact, this advantage is generally overrated, and,
at any rate. it is so far transcended by several others as to be worthy of but secondary mention. Whenever we hear anyone laud the farmer's independence, we know at once there is a person who has hot begun to appreciate its great cardinal advanMichigan. "/ is first lieutenant of the Maker of this world," No occupation is more dignified. characters develop mightily, if given a chance Ind what, other great occupation permits chance. Well in such intimate contact with the sublime rugred and exquisite beanty of nature? To obstretchink of the plants and trees, the gradual deelopment of living, companionable animals-all cratures of one's own ambition, thought and the woolls, to work for the uphthilding of a home, Companions of the placid croment of the children these are some of the pleasures of country life. trong lines of character womld never develot the strong-hearted, wholesome, rational acks, but woman finuls probably a greator combination atractions on a well-ordered, well-situated fat the cit., man mer whot on Goul's areen earth. In
on the farm, he moulds \ature. " Nature
Idealized," should be the motto of every country home.
But, if the attractions of the farm are so great ans do people appreciate them? The answer is simple; they hate not been trained to appreciate them, and few possess the discrimination to vilue most highly in youth the things Two great intluences moulding the aspirations and conceptions of youth are the home and the luence owards a wholesome appreciation intry life because the parents appreciation of counfeel it, except half-heartedly. And as for not schools, they have directed the ambition and thought of youth into any other channel but the farm. Even yet, the most advanced schoola are making but lame and feeble efforts to repair that bious lack. It will be al least a generation, probably longer, ere the schools are wholly freed rom the cityward bias. School-gardening, nature hould manual training and domestic science stent effor work as intimately as may be to the conditions of the colintry and the problems of the farm. The state has nothing officially to do with the home; andeavor to so modify its curriculum that should cease educating so many of the brimhtest boya the farm. Then, after about two or three an erations of remodelled schouling, we may expect see a race of farmers develop who will not only see more in the farm. but will make more

The second problem, how to take city advanages to the country, is much the easier of the wo, and will be partly solved by the solution of to a considerable degree in many instances. li it be sane and wholesome to appreciate the peculiar advantages of the farm, it is likewis privileges-not to mention creature comfortswhich the city offers. It is not well for man to live alone, nor for a family, nor yet a neighborhoord. Character may grow strong under such tric. A broad sphere of human contact is essential to the highest development of human intellect and character. Unless country life can promise a reasonable measure of these things, the chil dren will be wise to leave it. It is not so much necessary to connect the country with the city by good roads and electric lines, though this is very desirable, but we must croive in the rural disand club, social life of the country, by the country, and for the country-something germane o rural conditions. Of course, we want good we can get it; neat, well-planted homes equipped with modern conveniences; and last, but most important, plenty of good periodicals, music, pictures and books. But these things alone are in dequate to appeal to a well-balanced mind. Not
And this leads up to a question upon which we have pondered not a little in the past. Why is it that in so many of the more progressive marked promes the boys have shown even a more marked propensty to leave the farm than the hoy's in the humbler homes? Is it not partly
because the former lads cot merely a taste of the educational and sucial privileges that could be enjoved more abundantly in the town? If so-and we bolieve this is one fundamental explanationcountry homes and country society a great deal More than we have already done. It cannot be the means: to all at once; some of us have not done. But all of us can set before ourselves high try sof country farms, country homes, and counhiest we may. face, thongh the is that direction in which to tion. but by evolution. And again we say the state must work through the school. Let the
belf forthwith. Take no stock in iny eass panacea for improvement of rural con-
ditions. Progress must be slow and cumulative.

A Plea for Hope's "Quiet Hour

# How wany of the readers of "The Farmer's 

 Adrocate" read the "Quiet Hour "? I venture Well, if you have never read it, begin now,it.
and begin by reading up some of the back numand begin by reading up some of the back num-
bers. If you can't get to church, just read one hers. If youms. If you are trying, to follow of these sermons. Master, you will find a great
in the step: of the
impetus from these discourses ; or, if you find hey have no interest for youl, then you have goood is the Way, the Truth and the Life. What a soothing effect such reading as we get in Hope's Quiet Hour column would have on the
brain that has been racked with business six days brain that has. been racked with business six days
of the week, but how orten we see such a one



## HORSES.

Preparing Hopses for Spring Work Many horses that will soon be required for
regular and hard work in the fields have spent regular and months in comparative or complete idleness. As a consequence of such idleness (while
they, may be fat and apparently in good conthey may be fat and apparently in good con-
(lition), they have lost muscular and respiratory tone. From want of function, the muscles have
become soft and flabby, and the respiratory organs have become weakened, and the animals are
not in fit condition to do a day's work. If this not allowed to cont inue until spring work com-
lee aces, it will be found that the horses will tire mences, it will be found that the horses will tire
easily, and for the first week or two they must he handled very carefully, and worked very easily,
else they will become entirely incapacitated. In order to avoid such undesirable and expensive
conditions, preparation for the work should be conditions, preparation for the work should be
commenced at once. A horse that has been idle ior a few months cannot be quickly fitted. It requires time, knowledge and patience. In the
first place, daily exercise or light work should be first place, daily exercise or light work should be
given. Even though there be no work to do with the horsses, and the time of the men is re-
guired for other purposes, it will pay well to have quired for other purposes, it will pay well to have
the men spend part of their time each day in exercising the horses. At first, a little exercise, say
three or four miles daily, will be sufficient, and the amount of exercise should be gradually increased. As the exercise is increased, the grain
ration should be increased in proportion. This ration should be increased in proportion. This
will gradually give tone and strength to the will gradually give tone and strength to the
muscles, the respiratory and digestive organs, and by the time the horses are required to do a in fair condition; and at that season, time of hoth men and horses is too valuable to be spent
without being able to show reasonable returns. without being able to show reasonable returns.
l)uring the preparation, the harness that the horses will wear when doing regular work should be worn, and care should be taken to see that it
fits well. This applies especially to the collars. It is quite possible that a collar that fits well at constant soessure upon the muscles of the shoulder when the horse is working has a tendency to hartien and at the same time lessen the bulk of said! muscles. This is noticed even in cases where
a horse does not fail in flesh. Hence, the collat hecomes too large, or, more correctly speaking, he neck becomes too small for the collar. In , pen-ioppled collars the size can to some extent e resulated, but this kind of collar is not
popllar, and is not generally used. If this conlition occurs, and is not rectitied, the rolling motion of the collar will soon cause sore shoulders
which will necessitate a rest, or the working of which will necessitate a rest, or the working of
he horse under conditions that should not be al-
owed. Hence, the teamster should be careful to
Hen thoronghly clean the face of the collars every
morning. and, if he notices that they do not fit
sufficiently close, he should either procure collars
that will fit properly, or wear sweat pads to fill W. Where proper attention and precautions are Wserver, sore shoulders should not be seen. In mowal of the collars at noon, or other times when
In horses are standing in the stalls for an hour.
ir .acn lecs, allows the shoulders to cool and "ocn lecs, allows the shoulders to cool and "rhe when they are allowed to stand for a few
 "I there is any tendlerness, and. when there is
thirsty, he should be given water," should, with to Wayne Dinsmore, Secretary of the Percheron
few exceptions, be carried out, the exceptions be- Society of America, Lnion Stock-yards, Chicago, ing: when very warm, the amount of cold water, Illinois. All members of the Percheron Registry
allowed should be limited; also, a horse that, Company will receive a share of stock, which conowing to weakness of digestion, or other causes, will becone colicky if watered after a meal, or if Worked inmentiately after being watered. These general principles, we think that horses should be given water both before and after meals, and at

## Benefits of Stallion Licensing.

## A Percheron Merger

## Ferhaps the most important move that has

 taken place in the history of American Recordconsolidations took place on February 9 9h, when
an amicable arrangement was reached between the


A Superannuated Team. The accompanying picture shows a team owned by 1saac Willson, of
Aldborough Township, Ont. They will be 31 and 32 years old in the Aldborough Township, Ont. They will be 31 and 32 years old in the
spring, and are in good condition and good life, and did most of the work last year on one of Mr. Willson's hundred-acre farms, but will be work last year on une of Mr. Willson's hundred-acre farms, but wil be
turned out to pasture next season. They have earned a holiday, and it
is hoped will enjoy the coming season's herbage.
representatives of the Percheron Society of
America and the representatives of the Percheron By the terms of this agreement, the Percheron Bociety of America has takeement, the Percheron and records of the Percheron Registry Co., and
recognizes as pure-bred the horses recorded by recognizes as pure-bred the horses recorded by
said Percheron Registry Company, for which cer Said Percheron Registry Company, for which cer
tificates have been issued, bearing the name William hell. President, and Charles C. Glenn


Gay Sprig (imp.) [7794] (13849).
ydesdale stallion; bay; foaled 1906. Second to Craigisla at Ontario Winter F'air,
1910. Exhibited by Graham-Renfrew Co., Bedford Park, Ontario. Sire
While the number of animals recorded by the 'ercheron Registry Company is not considerable, hat they have been recorded by a separate company has worked hardship to many breeders. A letter has just been issued by the Percheron
Registry Company, calling attention to the fact Registry. Company, calling attention to the fact
that the Percheron Registry Company has joined that the Percheron Registry Company has joined
with the Percheron Society of America, and di-

The pedigrees printed on cards of many of the worst the route bills and the country are so adroitly twisted, and so cuningly worded as to puzzle anyone but an expert in such matters. It is not unusual to see a horse masquerading as its own sire or grandsire. I not only with the lineage, but also with the perforn:ance of his great grandsire. I have in my
this kind, some of which would be amusing were vised for the dishonest purpose of obtaining money
under false pretenses.
Experience in the West, where stallion-licensing
legislation has been in force for a number legislation has been in force for a number of
years, has shown that the grade stallion not only
does not does not ucrease under a license system, but, on
the contrury, soon shows a marked tendency to disappear from the field.
glib-tongued groom, deprived of the even more port of his lying route bill, and forced to exhibit
his his license, which at once places his horse in the category to which he belongs, soon becomes disfrom entering at fairs and exhibitions by the application of the rule now practically universal in the Western Provinces, that none but pure-bred
stallions can be shown, the victory stallions can be shown, the victory of the pure
bred sire is complete, and the mongrel is relegated to the collar which he should have worn from his youth up.
Associat
Associations which do not enforce this rule are
deservedly considered date. After all, the only really sound reason for the existence of an agricuitural fair or exhibition is to increase and develop the knowledge of the
farmer aind his family, and it is a mistaken prin farmer and his family, and it is a mistaken prin-
ciple for an organization of this kind to lend countenance to such a rank and undesirable lend poster as the grade stallion invariably is.
So far as the stallions themselves
cerned, there is absolutely no comparison in conof interest and attraction to either exhibitor or spectator between a ring filled with high-class, pure-bred stallions, and one in which the com
petitors belong to the mongrel class. It is true that some of the latter
looking horses, excellent individuals, and perhaps well adapted for some particular class of works
but what of their progeny? but what of their progeny? Nowadays the graded
stallion is practically always the result of a first cross between a pure-bred sire and a non-registered dam, though occasionally he may be from a
dam of another pure breed, in which case more correctly known as a "" cross-bred." Both are evil, but the last is perhaps the less harmful.
The first mentioned or grade stallion is always The first mentioned or grade stallion is always
from a pure-bred horse, because the grade horse, from a pure-bred horse, because the grade horse,
no matter how handsome or symmetrical he may be, cannot, from a grade female, even as good
as himself, produce a colt that, in point of looks as himself, produce a colt that, in point of looks,
quality or substance, will be the equal of either quality or substance, will be the equal of either
sire or dam. Colts so bred are, therefore, seldom good-looking enough to be kept entire, even by
the most ill-informed or prejudiced breeder the most ill-informed or prejudiced breeder.
It being admitted that the stock from pur bred sires, intelligently used by intelligent meneis superior to stock of the mixed or "cocktail ", variety, no great perspicacity is required to see
that in a district where good colts and young horses abound, and where farmers, and especially there is certain to exist a friendly rivalry which will tend to largely increase the entry at local

## hibitions.

The Manitoba Licensing Act, which I had the honor to introduce in 1893, stood for twelve years until 1900 that the present fairly it was not measure was adopted. It, however, embodies most of the provisions of the old bill. what was , known as the "Horse-breeders' Lien
Ordinance," replacing this in 1903 by the more comprehensive "Horse-breeders' Ordinance." This latter legislation is still in force in Alberta and Saskatchewan, having been, on the division of the
Territories, in 1905, continued by the Govern ments of both Provinces.
Legislation
Legislation of a fairly advanced character, pro-
viding for the licensing of stallions by Provincial Departments of Agriculture, is now Provincial each of the three Prairie Provinces, while the Government of British Columbia has so far been
content with the enforcement of a replica of the content with the enforcement of a replica of the
original Manitoba Act. It is, as can betreadily understood, much easier in secure the passage of legislation of this kind
in a new country, where conditions are in a
sian state of flux, and where the vested interests are
comparatively unimportant, than in a community whose beginnings were in a less-advanced age, and
in which custom and prejudice may at times bfock in which custom and
the path of progress. which has led the Dominion in general and professional education, as in commercial and industrial enterprise, should lag hehind her younger
sisters as she is doing in this and several kindred
matters. to hlame the whole Province it is scarcely fair difference shown hy the inhabitants of its less
progressive and well-informed districts should be, and generally is, merely a public opinion which has gradually developed strength unt il the demand for its authoritative expression in a concrete form can he no longer disregarded. This
being the case, it is only a matter of time until
the more backward sections of the Province. fol
lowing the lead of those districts which have al
ready demonstrated their belief in the pure-bre stallions if known ior what bey real altogether, shall b

General-purpose Hopse on the Fapm.

The general-purpose horse, according to most horsemen's ideas, comes under 1,350 or 1,400 pounds. I notice that most speakers advise farmsome have gone so far as class of horses, and most at hand whe far as to say the time is althem at the shows. Now the no class for horse is concerned, I am free to admit that it pays better to raise this class for sale than any other, but I can't agree with the idea that the
drafter is the most useful on the farm in thi part of the country,
have been running a farm of for twenty years, have been running a farm of my own for fifteen time. At present I have a pair horses all the
thares bred from a Hackney horse; the dam was pretty much
Percheron. They are clean-limbed, carry no flesh, weigh They are clean-limbed, carry no extra per hour and keep it up; haul big loads both miles the road and farm. I might say that, since har vest commenced, till the present time, they have don't know of a heavy team condition, and I much work. Now, the point for which I contend is that there is a place on the farm for this class Renfrew Co., Ont

One thing I considered my subscrintion colts paid for was in the help given on joint-ill in I know followed the preventive treatment, and I know of farmers near-by who lost colts this year which might have been avoided had they

## LIVE STOCK

Sheep-Breeders' Association Finanees.
Following is the financial statement of the Do-
minion Sheep-breeders' Association for the ending Dec. 31st, 1910 , as as reported to the year
nual meeting in Toronto: RECEIPTS.
Cash on hand, as per last rert Memberships Memberships,
Registrations
Interest Interest
Miscellaneou
 $2,551.07$
300.00
15.00 15.00
$1,364.65$
58.10 $\begin{array}{r}58.10 \\ +90 \\ \hline 4.28972\end{array}$
$\begin{array}{ll}488.65 & \text { then I breed one or two for a fall litter. Mast } \\ 433.40 & \text { winter 1 kept three sows over ; they were York- } \\ 1,226.90 & \text { shires, two of them farrowed about first of } \\ \text { April, and one on 30th of May }\end{array}$ April, and one on 30th of May. They raised 30
132.65 iigs. I sold one to my man when weaned. Of
the rest. I sold $\begin{aligned} & \text { the rest, I sold } 12 \text { on } 5 \text { man when weaned. Of Ottober, at } \$ 8.50, \\ & 5.00 \text { and } 15 \text { on November } 30 \text { th, at } \$ 6.75 \text {. I also } \\ & 4.50 \text { killed one and kept one, so that }\end{aligned}$

 ProceEis.
Oct. 5th, 12 hogs, at $\$ 8.50$
Nov. 30th, 15 hogs, at $\$ 6.75$
One killed, 160 lbs., at 10 c.
One kept. $\$ 187.00$

## Quick Hog-fattening

## E

 raising, seeing that ging my experience in ho a sow of my father on March 1st, 1910 I bought which farrowed nine pigs on June 21st, of $\$ 25$, one died. At the age of $5 \frac{1}{3}$ months, I turned maining seven Jan. 12th, 1911, sow. Sold re They weighed 2,150 pounds, returning me $\$ 150$ cw. Valuing the one kept for a brood sow at the same yalue of hogs, $\$ 172.00$. $\$ 21.50$, makes a totalyatal From 21st of June till 12th of January, there pounds, showing gain from birth of $1 \frac{1}{\frac{1}{2}}$ pound 307 EXPENSES.
Sow's feed from March 1st to June 21st. \$ 4.00 1,700 pounds chop,' at $\$ 1.25$ 300 bushels ear corn, at 28 cents.
One-nalf hour per day for 200 days

It $\quad \$ 126.45$ balanced by the value of the manure fed $\$ 126.45$ Total by the value of the manure $\$ 172.00$
126.45
$\$ 45.55$ started farming for myself March 1st, 1910. At unhusked corn, which, along with swill worth of for drink, furnished food for sow until two wheals before farrowing, when the corn was dropped, and,
instead, a little shorts and into the drink. When pigs were chop was stirred was running in a slashing, and seein, the sow three times a day, was rather wild. The feed wot ready. When pigs begin and she ate when she
yot opened a ho on the other side of fence put a six weeks old, I took the mother away, and When ting all the shorts and fine oat chop mixed with
whey into a thick batter that they could they never missed her. When corn got glazed, about Sept. 1st, I started feeding it allong with
oat chop and shorts. By the middle oat chop and shorts. By the middle of Septem-
ber I dropped the shorts, and fed corn moter Would go into the field, and fed corn mostly. hauled them into the yard and spread them off by
the wagon load. the wagon load. This was continued untill the end of October, when, the weather becoming too
cold for them outside, I moved them to the hog-
pen. Here the corn pen. Here the corn being stored overhead, and coming down a chute into a feeding compartment,
they had corn always before them they had corn always before them. In this way,
with oat chop stirred into their drink the wed oat chop stirred into their drink, they were
fed until sold. I believe no other cross of hogs
but Tamworth but Tamworth and Berk would have stood so
much corn. Once. when month, they did get a little stiff. Would have
preferred a little not too hard for fat, and oat chop for that corn Elgin Co.. Ont.

## A Simeoe County Hog Account

 I am moved to address a few words from myexperience to your readers by Mr. Colnitts on hogs. Of course, circumstances alter caster and what is easy to me might be impossible in three to four part of the country. I usuaily keep spring, from sows, having them all to pig in the winter breed one or two for a fall litt of May kept, ............ at 10 c
sold as 16.00
16.00
$\mathbf{2 . 5 0}$Wintering three cost.

Sows and pigs till harvest
$1,{ }^{1}$ acres peas, say harvest ...
200 t.ush. barley, at 52 cenis
Boar fees. 20.00
45.00 24.00
104.00
3.00
\$4,289.72

Directors' EXPENDITURES.

## Grants :

394.65
143.77 69.26

37.00 | 37.00 |
| :--- |
| 28.34 | $\begin{array}{r}28.34 \\ \hline 12.72 \\ \hline 6.95 \\ \hline\end{array}$

$\begin{array}{r}488.65 \\ 433.40 \\ \hline\end{array}$
 Editor ". 4.5 Pounds per Day. I notice, in your issue of February 2nd, Mr
Baty, of Middlesex Co., says he feeds 25 pound
of silage a cow per of silage a cow per day, a and says he would not
think of feeding 40 pounds. Now
feedi day, in two feeds, with straw or 45 pounds a amount whether milking ist, and are fed the same just freshened, and have never harl a case of have
get or a cow off her feed Our silage is of good quality, with a large
amount of ears which are well clazed cutting. We would not like to do do at time of
silo or .. The Fithout the
To or ". The Farmer's Advocate."
stormont Co.. Ont.
FARMFR's son.
Alurmont
reaving a profit of $\$ 237.15$
never feed any milk
febrdary 23, 1911
raise all my calves, and sometimes buy
tow extra, so so there is none for the pigs.
one
I
feed twy sows through winter six beets per day eech,
my
and about a gallon of oat chop, so I think $\$ 20$ and aibout a gal While suckling, they get three
 one ton or barley chop till harvest, then they go
on on stubble for about a month, which, with lots
of young clover and grass, brings them to Sep or youn, when I begin feeding again. key bens over winter. Well, the best thing key bens ove, they will not starve with them
pulpen roots.
Simcoe Co., Ont.

## Preparing Corn for Hogs.

The increasing growth and use of corn in Canfeeding it to hogs. It has long been shown that cooking is not only a waste of time and fuel, but
an actual detriment to the nutritive qualities of the grain. An exclusive corn ration has not been commended in Canada, being considered unfavorable to the production of fine, lean bacon, but, at
the same time, corn has so many advantages that the same time, corn has so many advantages that
its use in connection with other coarse grains, or on clover pasture, will continue to increase, and would undoubtedly do so more rapidly were it not for the popularity of the silo, which absorbs so in which corn-feeding to hogs is of the greatest interest, because it produces more than $3,000,000$ hogs above any other State, and, at a conservative estimate, her T,908,000 hogs in 1908 con-
sumed $100,000,000$ bushels, or one-third of her corn crop. To have shelled and ground it would have cost at least $\$ 3,000,000$, and the hog-feeder naturally asks would it pay ? For two years
past, the State Experiment Station has investipast, the state Experiment station has investi-
gated the question of grinding and soaking with 312 hogs of all ages, from young, weaned, spring pigs, to old. thin sows. The results are given in the Canadian who holds the chair of Animal Husbandry there, and an assistant. The cost of grinding corn meal was found to be 2 cents per
bushel; Corn-and-cob meal, 6 cents; and shelling corn, 1
of thent per bushel. The animals were all
of tho breeds. so unsatisfactory the first season that it was
ruled out of the experiment ruled out of the experiment, and feeding dry
corn meal was found the most wasteful of feed In a general way, the experiment proves that the fastest and most, economical gains were secured by feeding dry ear corn until the hows were about
200 pounds in weicht: above that weight aboak ing proved advantageous. The reason fiven is the more thorough mastication by the younger hogs, with their smaller jaws and perfect teeth, pernitting a more perfect action of saliva on the
corn. (Moral : Let the hogs grind their corn.). The feeding was done in 32 lots, on .9 of
$\circ$ an acre Erass pasture plots., with small. movable an acre grass pasture plots, with small, movable
houses for shelter and shade. The four principal
rations raty corn meal, and soaked corn meal. In case
Iry one lot of 40 hors fed for the whole period of of
133 days, the cost of 100 pounds gain was: Dry
con
 meal. 8.68 ; and soaked corn meal, $\$ 5.71$;er or
as a selling price of corn per bushel, hogs selling
 these. The returns corresponded approximately with
Duroc-Jersey spring pigs fed wo first prize and reserve champing pigs fed won
ternational Livestock Expositionip at the The
The aver Cernational Live-stock Exposition. The average
results for two vears pigs, during their first summer and foll, spring
there was a saving of over 6 per cent. of the corn by
feeding it in the ear, instead of soaking and she feeding it in the ear, instead of soaking and sheli-
ing, and of 18 to 24 per cent. saving, compared ing, and of 18 to 24 per cent. saving, compared
with shelling and grinding. For hogs over 200 pounds in weight, soaked shelled corn, while giving a trille slower rate in gain than soaked corn meal, made the most economical gains of all the
forms in which corn was fed. forms in which corn was fed. When fed in the
form of meul, beside other expenses, troughs must be provided, whereas whole corn is fed on
the sod.

## Silage for Sheep.

H. P. Miller, a noted farmer and sheepman, of
Ohio, who has been in Canada since the middle January investigating Canada since the middle of United States Government, has given "The Farmbenoft while travelling observations casually formed the buildings, improvements and general With ness evident upon Canadian farms her was - most
favorably impressed apvorably impressed, while the men whom he met way way the feeding cattle are tied or stanchioned in nure is laboriously wheded many cases, the mahis own farm, he years ago adopted throws. On of never moving manure except when loading it field. All his spreader to be hauled out to the dairy. and are kept much cleaner both beef and cattle confined in stal The sheep business is not nearly so large or to find it, iudrincs by as he would have expected Canadian exhibitors of pure-bred sheep and by Ceading shows. In Ohio, it is not unusual for a the aure, besides a certain to have one head to He himseli keops more than one breeding stock. His farm of 366 acres is stocked with 20 head cows and heiferses. 25 to 30 head of Jersey 8 to 10 brond sows, raising two litters vealed; Seven pigs each per year; and 350 to 400 breeding started with and Merino breeding. He had and is makinge a specialty of "" hothouse ", blood lambs. One octazonal silo, $12 \frac{1}{\frac{1}{2}} \times 26 \mathrm{ft}$. is used alCogether for the sheep, beinc filled with Leaming and Clarage (a yellow dent) corn, sown usually in drist for convenience in harvesting with corn
hinder, but not thicker than if planted for husking. When planting in hills, they take care not apart. The corn for silare is cult, hills the 42 in . stage as for husking. of this silage a hundredpound erve may be fed about four pounds per day, kled on it. not with a little cottonseed meal sprinkled on it, not to exceed one-quarter pound per
sheep are fed clover hay, to the amount of per
haps
1t haps it pounds per head, and Mr. Miller is get-
ting into alfalfa, of which he now has nine ncred He has also grown and fed soy beans, which cor respond in feeding value to peas, though When he first began feeding silage to sheep ifteen years ago, he lost some sheen, and also
some horses one winter from allowing the eat tud silage, but now he has no more fear of feeding sheep good silage than of feeding oats and
hay. He also feeds silate morn hay ${ }^{\text {He also }}$ ieds silage in moderate quantitied
to his horses, considering it pretty safe to feed. half a bushel to a feed twice a day

That, even under the present very unsatisfac. ory conditions of wool-marketing in Canada, dicated by the experience of the well-known is in master, John Campbell, of Victoria Co.. Ont. a mentioned at the Dominion Sheep-breeders' meet ng., Toronto. Ar. Campbell reported having con-
signed his wool to tablishment, and after some delay while the firm was seeing how the wool would scour out, he had received a report complimenting him on the qual-
ity of the wool, and remitting him two or three tent the wool, and remitting him two or three
cents above the current price for Canadian wool.

## THE FARM.

Maple Sap Pail-covers Essential.
I always have at least a year's supply of good boil with wet or green wood not pay to try to look like sugar weather, I distribute my buckets o the trees, with the bottom up, so as to keep the snow, out if it should happen to storm. By right this, 1 put all my help to tapping when the it is always the best. I I use all large tin buckets,
ten ten quarts being the smallest, and up to fourten,
quarts, as with the small buckets much waste ith the case of a big run. The is too 1 use altogether gives me more sap, than other kints. Itried 100 spouts a few years ago, with old ones for what I could that I sold all my could get, and bought the so much as the old metal ones, are easy to put in and take out, and do not leak, the sap, and the buckets do not blow off easily. I have a $6 \times 20-1$
foot evaporator, which last yaror I boiled for 2,350 trees in daylight: did not have to boil any at night, as I always liator. other years with a $4 \times 16$-foot evapo strain all the sap from the gathering tank and
ginto the storace; then it is all strained into
evaporator evaporator. I use a four-barrel gathering tank
on sleigh while snow lasts the trick wagon for the rest of the season. try to gather the sap every day, as I find that the sooner it is boiliad after it leaves the free, the
better flavor and color yor better fiavor and color you have. I have a few
covers for some of my buckets, which the a good thing, as in bad weather there is no wast of sap from the rain running down the trees and
dropping in the buckets

us to make it useless, and the labor and time
 nieces of bark that blow from the trees also keep the sun from beating in the buckets and





 canse, andarantesears, and find it very satisfatory
 iet it settle over nitht, when it is ready to that my father useed to tap 300 trees, and used to boil with a potash kettio hung on a pole, on
had to worl nimht and dav to keep the sap boile had to work night and day to keep the sap boild



## Alsike for Seed

 give my method of seeding and handiling the al
sike crop.
toow seven pounds to the acre-some



 larger growth than in ahe Ahe, Alser on eliely sow

 ed clover. Some leas ar. years, and is the cliover gets trans in this sec
 reeps up the land much bet ter It ise very the ovitting and hanaurink that one cand shells much more oasily than does red clover,
Nhlike gets ripe about the last of hay hing, and just
 betore wheat is ready. and sometimes all onthe
need your attention nat once. When most of the


 heots, shapijet like a beon or pea pood, anil several seeds in a prod idierent ways of hand ing the crop















## Syrup-making





 when there is not much other work doing on $n$ the whole thing in about three hours., I do the camp, which should be built about the center of It is a good plan to evaporate as quickly as

 off, to settle, allow it to stand for twelve hours, then draw of and can. Always strain the sap
lefore entering the evaporator, and strain the sirup through felt strainers as you draw it off.
i have had no trouble so far in selling all my syrup in past; 1 could not fill the orders last
ear. I put my syrup up in Imperial-gallon cans labelled, and guaranteed pure, and sell direct to
consumers. In a good season I think a person consumers. In a good season I think a person
should make at least 50 cents per tree.

How a Farmer Built His Own Silo.
Scarcely a week passes without questions being asked in the different agricultural papers re-
garding the building of silos. It, being a very live question, demands due consideration. As
the country is hecoming dotted here and there with silos, the farmers are becoming wise to the
fact that they cannot afford to do without them. It has long since been proven that corn is the the silo the ideal way of curing it.
Taling everything into consideration, it is calculated that the cement-concrete is it the most asks cuch unreasoñable prices for building, it may often cause nrocrastination. This being the
case with the writer, last spring he decided on building himself, which was done with entire sat-
isfaction in every detail (price included). isfaction in every detail (price included). The
method we shall describe as clearly as possible. Location is a very important point, for, once
built, it is hard to move. Convenience for feeding should be the aim. Next, the foundation re should be down three or four feet below the should be down three or lour feet helow the
stable floor. It is just as easy to throw silage
out of tha bottom as up to any of the other aip. I have a platform placed from the camp Sap. I have a platiorm placentrom the camp
the rock for the receiving tank. When a load
sal, comes in, all you have to do is to tur down the pipe from the gathering tank, and t sap runs freely into receiving tank. My camp 2 feet square, 8 -ft. posts, with a good big ven

$$
\begin{aligned}
& \text { doors } \\
& \text { When excavating for the one in question, which } \\
& \text { Whs placed in the gangway of the barn, a great } \\
& \text { many stones were removed, and it was thought }
\end{aligned}
$$



$$
\begin{aligned}
& \text { wha plase were removed, and it was thought } \\
& \text { many stones wer } \\
& \text { wise to bulld the foundation of stone, which was }
\end{aligned}
$$


$\qquad$ the earth wall on the outside, and the inside form was used inside, and three or four inches of
cement-concrete rammed in between stone and form. At the top of stone wall the outside form
was set $y$ inches clear of inside form, and filled with concrete and field stone, layer ubout, care
being talien to licep stones clear of face of wall on either side. A rather straight-handled spade
was used to work fine grout out against forms and force coarse material to center of waill. This
process wasis foliowed until 30 feet in height was process was folinwed until 330 feet in height was
reached, two or three strands of harbed wire being
laid in about every two feet. The outside form reached, two or three strands of harbed wire bing
laid in about every two feet. The outside form
was drawn in onc-half an inch every time forms
wore raised which were raised, which tapered wall to six inches at
Yop. Inside was kept as plumb as possible. It the juncture of stone and concrete wall a
safold was required, which was obtained by wecting four poles in center of silo, about the
size of tharn raiters. They should be eight or
ten feet higher than top of silo when finished. ten feet higher than top of silo when finished.
Place so as to form a square, and about four
inches from the wall. and stay in position; cut 1wo, ples to. reach from one side to the other (as Arone chains with timber hook hitched around
$\qquad$ th. framul of scaffold, with uprights in outside Complet. it anything suitable may be used to
Lhort props can be used betwen colid. For wall, which makes scaffold very
$\qquad$
 syuare." " petwece of timber five or six inches
tianrights. as shown in
liagram. Thore 1wo holes and use crowbars
$\qquad$
femblary 23, 1911
be taken apart, and put out through bottom
door. Molixing board was set close beside silo, and
Mixe was hoisted on a gin pole (also a few concrete was hoisted on a feet higher than silo, with pulley on top, and small wind lass at botcom what carry and dump into
were used that an man could were thus saving unnecessary handling. Mixing
form, all done by hand, and three men could build
was and was all
three feet per day. When filling last form, eight three feet per buy. in to bolt plate on with. Plate
bolts were builixteen pieces 2 inches thick, cut the bores made of sixteen pieces 2 inches thick, cut the

- wasper curvature; a bolt through every second proper curvature, a
one.
Then a one-inch plate was made in the same way, placed on top, joints broken, and nailed
solid, the top inch being beveled to nail roof to For roof, cut four rafters (allowing no projection
the eave), the point at plate just flush with at the eave), the point at plate just fush with
bevel on plate. Take rim of light wheel and cut notches in rafters for rim to set in, which will
natke purline. Get lumber cut proper length and make purline. Cet lumber cut. proper length and
riped cornerwise, placing pointed end up; nail to plate and purline, and nail together where gothic or some kind of door in roor for blower
pipe.
Cover with felt roofing, as shingles cut to pipe. Gover
waste greatly, and are slow to put on. The
door frames, which were placed in every other form, were $20 \times 26$ inches. They were made tapering, so as to is placed another frame o $2 \times 2$ inches, of the proper curvature on the in
side, and flush with inside wall, and tapering, al so. When frame is taken out, this will leave coundeosumall to rot, which it does very quickly no woon wade of two thicknesses, of one-inch
Doors aro made of two
matcened lumber, with paper between, nailed to cleats of the proper curvature. When placing mud, which will make it air-tight, the corn holding door in place. forms, consist of two circles,
The moulds, or one for inside, and one for the outside, and each
circle divided into four sections (see plan). The sections consist of six inch boards, three feet long,
bolted with small bolts on two bands of iron (old wagon tires will dol, the top band 7 or 8 inche from top, the other 6 inches from bottom. The
ends of bands should turn out, in order that they
mav be bolter torether with bolts made of 8 -inch may be bolted together with bolts made of 8 -inch
iron, with thread cut full length, and three nuts sired. At joints where sections meet, some strips of band iron are required to fill any space that Explanation to Plans.-Fig. 1: A, $\frac{8}{8}$-inch bolts with three nuts and head, 12 inches long for out-
side, and 8 inches inside; B, band iron; $C$, inch
 circle representing, silo: H, uprights; ${ }^{\text {Hen }}$, scaffor
poles hung to uprights with chains ; $J$, or dot ted lines, planks on top of poles to form frame of
scaffold (note the four uprights in the outside corners). Fig. 3 : K, windlass in bottom of silo
Those uprichts can be taken out of silo whe completed, with gin pole and rope, by hitching
or 12 ft. from bottom, and hoisting over top. Put guy-rope on bottom, and three men can take them II I havo missed anything, Mr. Editor, I will
he pleased to give it, as far as my ability will allow.
 One man helping mason, six days, at
$\$ 1.50$ per day
fine, $\$ 3$; \&ravel, $\$ 3$ 9.00
6.00
27.00 $\begin{array}{r}27.00 \\ 20.00 \\ \hline\end{array}$
$\qquad$
If huilding apain next year, I could not suggest
$\$ 275$ from Maple Bush

any wive von a tew hints as to how I handid


$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
[HE FARMER'S ADVOCATE
uel, time, and making a first-class article. We
start to gather as soon as buckets are about onethird full, as this gives us nearly an even start
with flow of sap, avoids a large rush, and does not allow sap to stand any length of time before
being boiled into syrup, nor is it so liable to be rained into. Two men and a team are required to gather sap and do chores on the farm, and an-
other man to run the evaporator; and, when not making syrup, are doing other work on the farm which brings the cost of hired help in the bush much cheaper. Our syrup, which we finish in an
evaporator, by using a saccharimeter for testing, ve can make all just the same weight of thirteen pounds two ounces per gallon, which is standard large cans, and then put up in cans of from one shipped both to consumers and grocers. We never sell in bulk unless shipping to the Northwest then we use barrels. Our bush yields on an aver about, ten dollars per acre. Chee, which amounts

Be Busy in Time.
It will not be many days before spring work will begin in earnest. Then there usually is a
rush. Then it is that one realizes that much to lighten the work of spring. Why not begin to
do some work now ? last minute. It causes a lot of unnecessary worry are little things every day that one could do that would mean wonders when the battle begins. Plan the carnpaign now. Do not put off an hour
longer ordering your seeds and plants, if you have nonger ordering your seeds and plants, if you have better goodd, and oftentimes seed-houses run out of certain lines; then, if you have waited till the all means, do not sow poor seed. Look yours over at once, and decide now what you are going to do about it, and then either clean it well or
get some that is good. You will certainly reap get some that is
How about the implements? When one wants 0 start work with them, will something be out of order or missing ? Let us see to it at once note taken of things needed, and first time we go to town let us get what is wanted. It may happen (and often does) that the dealer has not for hand the parts you need, which always takes some time. your annoying to wait for a casting when
your neighbors are out in the fields, when you could have had the desired piece had you
it sooner. Yet such is frequently the case.
When horses are gay in spring-time, When horses are gay in spring-time, after rotten and neglected harness. Test every piece that needs replacing, and have on hand a supply of buckles, snaps, staples, cockeyes, etc. Hardly a season passes without several of these wearing
out or breaking. It is best to replace worn parts before some accident happens. Wash and life of the harness ; in fact, they will last thrice spring, and often the work they do is!done hastily anding, and often the work they det ary too well. Try to get ours in before there is a rush, or, by investing in a few tools,
thread, etc.. one can do it himself some day when too stormy to work outside.
By the way no farmer, whether large or small, By the way, no farmer, whether arge or shap of
can afford to be without a litte repair shop
his own, where he can save much time and expense in doing odd jobs for himself. No need
work in a cold room. An old stove to heat
will also serve to heat water on for washing ha will also serve to heat water on for washing har-
ness and for dryine same afterwards. Driving
to town to get every little thing done is wasted to town to get every little thing done is wasted
time. One could often do the same work in half time time in his own workshop. It is better to spend half a day at home fixing a thing oneself than in waiting for it at the bar. A work-
shop should have at least these few tools; get these as soon as possible, use them, and in time
more can be added to the list Hand saw, clawhammer, brace and a few auger bits, pliers, chis-
els, plane, files. rule, gimlet, wrench, awls, screwels, vlane, files. rule, gimlet, wrench, awls, screw-
driver, etc. Besides this, have assorted screws, driver, etce. neils, wire, thread, etc.
bolts. rivets,
cuppose we ask ourselves this spring, " What have I accomplished the past winter?"" Will we have to answer, "Not much"? Many a one
is killing time in the town or village, sitting around the store or inn, gossiping, or preaching
about what he has been doing at home, or what he is going to do, forgetting that his animals at
home, though dumb, speak louder than he can. The barn. the stables, and the whole farm, go to
show whether one nractices what he preaches. Besides, the habit of goine to town too often is
hard to break, and many a farm has chanced

Better visit the neighbors and the schooi
casionally, but do not neglect your wife. It is sad to think that so many liy side by side, almost, and yet never visit each
other. "It is getting out of fashion," some will say. Others remember a dispute of lons ago some. even. are jealous, and some do not care to
associate with inferiors. It often though, that they will gather at a neighbor's house when he is carried to the hearse. Then it as two ne. How much better it would be to do had hard feelings I knew did. For years the one thought it was time for a change. He im-
mediately strolled over across the fields, and found his neighbor busy in his yard. "My friend," said he, "let's be friends while we
the chance. Let us forget the old the chance. Let us forget the old line fence.
have much work at home, and you are busy, too have much work at home, and you are busy, too.
Come over with the family this ovening and have a friendly chat."' They said more, but it was with tears in their eyes, not with curses, as in built a good strong wire fence along the line, on helping the other in that work. Do you see the point
ave you visited that poor family down the road, and done something that will make them more cheerful ? Do you go to see your sick and with them that Have you tried to make friend are tust waiten for youl is very likely that y
greatest joys in life
greatest joys in life. Rut, in doing this
amily and home. See to it that your wife has no need of working far into the night; that she you, leisure to share the pleasures of life with you. Are you sure that there is wood enough split for her use ? If possible, split enough to
last till the spring rush is over. When a man says he can't see anything to do these days, he means he doesn't want to do much.
Did you ever try carrying a small note-book in
your vest pocket, in which to jot down little things which you are apt to forget? Such a book is worth more than its weight in gold. Fnter these notes in your diary or other book with it Brother farmers, 1911 will be a record year, it we try to make it so. To make it so, we must cannot expect to reap much by planting poor seed, or by doing anything carelessly, such as sowing in soil that is not fit, or when too late
Be ready to sow when the time comes Be ready to sow when the the horses and the men must be in shape; the weather we cannot conWorrying will means, let us not worry about it sured someone else will attend to the weather better than any one of us could.
I do not fail to have a good garden this year the digging and weeding, but have to attend to some well-fertilized spot in the field where it can be cultivated with the root crop. If the women preter to have the garden to themselves, why, time to at.tend to it. I have frequently found and only a small percentage will germinate. have found it profitable to order seeds and plant early from some reliable seedsman. Prepared ", always, and let me ask you to be sensible, manly, sweet-tempered, kind and thought ful to others, for we have a grand and noble pro
fession-that of farming. A. PLOWMAN.

500 Bushels Mangles on One-third Acpe. Having seen the subject of root-growing dis-
cussed several times in your valuable paper, subscribers giving their experience in growing from
500 to 800 bushels per acre, $I$ thought I would give my experience on the subject. Root-growing is no strange business for me, as I was born and raised in oce of the famous ront-raising counties an uncommon thing for 30 to 200 acres of roots to he grown by a single farmer. Having some knowledge of the methods there employed, I put employer practice in raising a small field for raised 500 bushels of Royal Giant sugar beets, good large-sizer, sound roots, ranging from 10 seed for pounds each. I never cleaned nor tested bought it direct from a local seed merchant. The ground, oat stubble and potato ground, was ma-
nured with nure. 400 pounds sult, and 150 pounds nitrate of
sodn sodn (applied soda in three applications). Plowed
manure unde in May : sowed beets May 15th, on the level, 30 inches between rows, 12 to 14 inches

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scuffled three times. Pulled the crop the last
week in
I might state that salt and one-third of the Soda was applied
in before sowing
The yield is even larger than the heading indicates, for, by measur went, the plot is 125 feet square rods. To be accurate, the crop yielded at the rate of 1,700 bushels per acre. I have grown as much before, and have known larger
crops grown in England. But, as the piece has crops grown in England. But, as the piece has
always been called one-third of an acre, we may leavo it as stated first. I calculate the cost of growing these roots at 6 cents per bushel, including manure, fertilizer, seed, rent and labor, which
amount to $\$ 30$. Valuing roots at 10 cents per amount to $\$ 30$. Valuing roots at 10 cents pe $\$ 20$; or, otherwise, $\$ 60$ per acre.

Cleanliness and Speed Make Goldlike Sypup.
Editor "'The Farmer's Advocate ": As the sugar season is approaching, it migh things. also some of the more-important needs sugar and syrup. To bergin with a map orchard is certainly of the first importance. thinic sugar-trees growing on gravelly soil pro duce, as a rule, the clearest and sweetest sap
Next comes the need for a sufficient equipment fo Next comes -the need for a sufficient equipment fo
the conversion of the sap into syrup. Durin the past eighteen years I have used a modern equipment, complete in all its parts, and the material of the best quality. This outfit consists o
a tapping-bit, reamer, spiles, buckets, gathering can, storage tank, evaporator, and last, hut not least, the covers for the buckets. I think that, by using covers, probably one-tenth of the sea much loss to the sugarmaker using uncovere buckets. Our gathering can holds three barrels our storage tank thirty barrels, and our evapo rator is $5 \times 18$ feet, with two corrugated pans each. As the corrugations double the surface of the able circumstances, I can craw off a gallon of yrup inside of every fifteen minutes. The spil bore. It gives more sap, and is less injurious to the tree than any I have ever seen; it also
holds the cover (which is easily attached) per-

Our sugar-house is $20 \times 32$ feet, and 12 -foot $18 \times 24$ feet, mond holds sufficient wood-shed is $18 \times 24$ feet, and holds sufficient wood for the is very simple. I have a sled made for the par iose, steel shod, upon which I place the gatherng can, holding three barrels. This can is selfemptying, thereby saving the slow and heavy labor of litting the sap with a pail. The moving
of this sled requires a pair of horses, and the filling of the can occupies the time and attention of two or three smart men, or grown-up boys
answer the purpose very well. The sap flows from nswer storace tank very well. The sap flows from he regulator, which opens and closes as evaporaion takes place, or as the sap rises and falls in he evaporator
Perhaps it is not necessary to remind the reads!lgar season must be active in his movements and constantly on the alert, as the pans, with a strong fire under them, are very easily injured by
the sap getting too low in the evaporator the sap getling too low in the evaporator Our
sugar woods is very scattering ; the trees are all
second-prowth second-growth. low, and very branchy. Such
trees produce a large quantity of the richest sap. The soil is gravelly, with south-eastern exposure covers, and tap about 1,000 trees, putting tw buckets each to abont 100 trees.
A very important item in the
maple syrup is its color. If llark. Why acture be so? Does the sap not contain in itself, whe
it comes pure from the tree, that bright and gol like color, with that mellow, rich maple flavo of traple syrup? We think it doesery Then our plan for making a nice, bright article. It very simple, but very profitable, for it not only
lorings a higher price, hut it brings customers. hrings a higher price, hut it hrings customer
hnxious tu secure your goods. This plan is
eather every day's sap at least once al pather every days sap at least once a day, ol
better still. twice, if you can. This sap is buile as soon as pathered, using good dry wood, and not more than half an inch in depth of sap, or as
lear that as possible, above the corrugations
guick, shallow boiling of nice frechly Quick, shatlow boiling of nice, freshly kathromil
next day, slowly, and with wet $\qquad$ or green areen wou than 10 minutes a month for each cow, are the Sell? Why, yes; I could sell a great many ways sold my syrup to regular customers, and most of these are customers for the past eighteen years (Which, in my estimation, speaks well for quantities to Winnipeg and Regina: have had orders from Alberta and Muskoka summer resorts, and different other places nearer home, but none supply the home demand. I put the syrup up in ncat packages, nicely labelled. Although this costs a little time and expense, still, I find it pays. I might, in this connection, say that I
am one of the very few in this district honored am one of the very few in this district honored certificate for sample of syrup sent them for their make-up of exhibit at the St. Louis Exposition. On account of the scattered condition of the
trees in my sugar-bush, it is impossible for me trees in my sugar-bush, it is impossible for me
to even approximate what the profits per acre might be. But, as regards the profit from each trea, I can speak more decidedly -not on what is made from each tree, but what might be made
I think that an average of half a gallon per tree is a. conservative estimate. It is an indisputable fact that none of our sugar-woods give the re turns they should, on account of waste. This
waste is occasioned by lack of promptness in gathering, allowing the bucket to run over; also rain and snow mixing with the sao. thereby renlering it useless.
Huntingd
S. MONTGOMERY. Huntingdon Co., Qu
hly expense necessary. The benefit weighing each cow's milk I think ampl's pay me
for all trouble. I have not done yet, as I find, by comparing the results culling past two years, that some cows need more the one or perhaps two years to show what they are
Two of my cows in 1909 stood Two of my cows, in 1909, stood second are
third in the herd, No. 2 giving only ahout 400 pounds more than No. 3; while, in 1910 ahout 40 increased her yield by 1,371 pounds, and No. 3 decreased her vields by 1,505 pounds, making
difference in 1910 of 3,276 pounds mill cows, apparently, had equal chanco milk. Both each freshening at practically the same time each year. I also find that my whole herd of the same cows as in 1909, raised their average vield in and attention, as a result of weighing each cow, milk twice every day. After two years' trial keeping datily milk records, I would not on any account think of going back to the old method of
$\qquad$ F. BISHOp

A B. C. Gold-medal Daipy Fapm. in January 26th, the farm of J. W. Steves, Steveston, had the honor of winning the cup and Competition. The accompanying Dailusy Farm and notes will afford the reader an idea of the apmearance of the huildings and farm, and how consettled in the facily, shirty-two ine district on Tulu Island, which is formed of rich delta land, at the River. At the Fraser the nearest that time, except one lachelor, Was three miles away. drained nor neither and was covered with apple trees. settler had to
and drain his
dy
own land, but now they have big canals dug
throngh ind alound he island for drain age and dykes. The Steves farin embraces
about 200 acres. The herd consists of about opure-bred Holstein 50 cows From 30 host of the feed is ratsed, wh the farm,
ousisitins of clover, fimothy hay clover, gels, wats und tarley.
The feed is chopped lied ectric power sup olumbia Flectri Light \& Power Comis electric light in cow stable and dairy.
The cow stable is 100
fect lect long, by 36 feet stalls, contains fifty crete floors, has con-
walls are, plastered
with concrete stah concrete. The
sial made of
of heavy steel fence
wire, woven in frames Wly is punipell by electric poower and conveyed to table and dairy for watering the stock, washing the stable, cooling the milk, etc. The
milk is botleed on the farm, and shipped to the
'lit Pure-bred Suffolk-Punch horses are raised on

Four and a Half Tons Per Acre.

Stable Interior.

## THE DAIRY.

Average Yield Raised, Over 800 Pounds. I have been keeping a dails mulk record of each of time of the photogravures, which shows a field
of my cows since March 1 st , 1909 , I applied to the inepartment of Agricultume at of applied to amply trec to tull who ask for them, which they The 1resillent of a ('reamery Company in East

 of mach wow it the end of cach monnth muld e.e.tals

$\qquad$
 the farm. The fertility of the land is indicated

Farm.
Milking-Shorthorn Record. Editor Thave been keeping milk records for four years. Began with grade Shorthorns, and, after weighhorns. as I thought I could get as much milk and
In 1907 my best cow milked have hetter steers. 5,716 pounds; my poorest, 4,574 pounds ; best two-year-old heifer, 4,350 pounds. In 1908 sold
all but iour cows, and bought six pure-bred all heifers. One two-year-old, milking, gave 2,822 pounds; best cow, 6,627 pounds ; poorest cow,
4,831 pounds. In 1909 sold my poorest cows, leaving bit three of original herd-three pure-bred and three grade heifers. Best cow, 6,650 pounds; second, 6,500 pounds ; third, 5,000 pounds; pure-
bred three-year-old, in seven months, pounds, sold for beef Nov. 1st. Pure-bred three-year-old, first year, 4,886 pounds; pure-bred
three year-old, first year, 4,600 pounds. Best grade two-year-old, 3,700 pounds; second, 3,300
pounds. In 1910, the old cows gave: poubds.
5,763 pounds; second, 5,744 pounds; third,
4,766 pounds-to November 1st, when I sold al 4,766 pounds-to November 1st, when I sold all
three. $\quad$ Pure-breds, four years old : First, 6,020 pounds ; second, 5,205 pounds. One three-year-
old gave 4,685 pounds, and one two-ye 4,732 pounds. One grade four-year-old, milking eleven months, gave 7,374 pounds, and one three-
year-old 5,300 pounds. year- old 5,300 pound
while I have definitely improved the freeding that, whive also advanced the milking qualities. These cows -received no grain, except from time of
freshening until grass and green corn in the fall. freshening until grass and green corn in the fall.
I atn well pleased with my method of weighing and the interest it gives to milking. As to cost 40 -pound draw-scale, and a 5 -cent slate, which $\frac{a}{I}$ ruled with a nail, leaving a margin on left-hand side for cow s name or number, and made the
balance into 14 squares for each cow. This gives me space for two weeks weighing; and, by bor-
ing two holes on either side of slate frame, hang it on two nails in the wall. My scale hangs on about 5 minutes per day to weigh the milk of ten cows. This time is amply paid for by con-
tests between milkers, and, also, it gives you a tests between milkers, and, also, it gives you a
sure means of finding any slighting of work by sure means of finding any slighting of work Dy
hired help. I hope some time in the near future
to be able to give you a summarized statement of 4 dual-purpose herd worthy of publication.

## "My Experience in Cow-testing.

Two years ago, the Wallace Cow-testing As-
sociation was organized by Joseph Burgess, in Manufacturing Co. I becane a member, having come to the conclusion that some of my cows, if
not all oi them, were not yielding reasonable not all of them, were not yielding reasonable
profits. They were grade Shorthorns-a kind of were that each member weigh evening's and morning's milk of each cow three times a month, at
fixed dates, and send samples monthly to the fixed dates, and send samples monthly to the
maker of the company, who takes the test and maker of the company, who takes the test and
forwards the report sheets to the Department of Agriculture, where the total amount of milk and butter-fat is calculated, and a summary sent to
each individual member in a sealed envelope. I each individual member in a sealed envelope. I
did not think weighing only three times a month was a very accurate way of finding out the amount of each cow's production, although it in-
volves little dabor, and is better than not weighing at all, so I decided to take daily weighings sible manner, I adopted the following system
I procured a pasteboard file, with thumbscrew I procured a pasteboard file, with thumbscrew
fastener at one end, and on this I place a pad of astener at one end, and on this I place a pad of
daily sheets, supplied by the Department; the daily sheets, supplied by the Department; the
thumbscrew fastener serves to keep the sheets in place. This and the scales are taken to the place
of milkink. of milkink, and the weight of each cow's milk is marked down as we milk. On the sheets are
spaces for name and number of each cow and spaces for name and number of each cow, and
cach sheet is ruled for one week. At the end of
each weak each week 1 total up the weights of each cow's
milk, andi at the end of each month it is a very
easy easy matter to get the total yield of each cow
for the month. I take samples of each cow thrice a month. The total yield of each cow for the
month is marked on a sheet supplied by the Jepartment for the purpose, and this, with the Takime them sent to the one who makes the lest. one miling, and I know it is a few minutes well
spent anl I find, when once a person is in the fixen Wahit -hard to give up. We become interdoing. and it finally becomes what each cow is Th. Amsive dairying. year I tester, the cows averaged

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averaged better than I anticipated. The next
year they were fed a little better, and after
weeling out one of the poorest, the average wus
4,250 pourds, test 3.7 . Had I weeded out f6ur more, the average would have been 4,700 pounds. 5,800 pounds; the second year, 6,200 pounds. Figurince the cost. of feed per cow at about $\$ 30$,
and milk worth 90 cents per cwt. at the factory the profits, on the average, are not an enticing ing and milking. A number of the poor ones are being fattened for market, as I believe this to be
the right and proper the right and proper way to dispose of therm, ers to neighbors and dealers, for they have milkcows enough. Am replacing the poor ones with pure-bred Holsteins with good ancestral records as to quality and quantity of milk, no leaking
udders, and good quarters, headied by a pure-bred sire, whose dam and grandans were noted for large milk production. I firmly believe in keeping a well-bred sire; far too many scrubs are
being kept, which only tends to stock, which I found by experience. T do not believe in mixing the beef and dairy
types to get a dual-purpose cow the dual-purpose cows I care for ; have hall all a little on their back and a little in the pail.


Milk-bottling House


Milk Track and Cows

Feeding such cows in only an aggravation. Some cows will assimilate certain kinds of foods and other will ussimilate the same food, and return it in the pail; this is the dairy type. Another will take the same food and, no doubt, assimilate only that she helps to increase the supply of
barnyard fertilizer. The latler type includes the majority of the dual-purpose cows. The test and scales are the only accurate way prises me that so many intelligent farmers deem it too much bother to do a little systematic work in this all-important branch of agriculture; so they are content in working along in the same old rut,
keep, ing cows that are only a bill of expense keeping cows that are only a bill of expense,
thinking they know which are their best cows when, in reality, they do not, as a thorough test would surprise them, Start right now and weed
out the poor ones, but use first the test and the scales, for otherwise you might part with a good
one.

Tnless at top figures, dairymen who under stand their business are not likely to pho und with
their best cows for the use of a milk-producer at

## APIARY

## The Anatomy of the Honeybee.

wonder how many people who hat seen bee at a safe distance have had the courage to ex
amine one of them at close range do this in safety, it is best to have what the naturalist calls a cyanide bottle, made by putting a little potassium cyanide in the bottom of a ing of plaster-of-Paris. A druggist will prepare
and w catch the insect, place it in the bottle, of the cyanide very quickly kill the insect. To examine it properly, one needs a small lens and a needle. Even many experienced beekeepers have not gone to this trouble to get a close acquaintContr ries its skeleto the animal custom, the bee car is. not composed of bones, but of thin plates and rings fitted nicely together so as to form a flexiis covered with hairs almost every part of the body one of which has a
particular use. Like
"All Gaul," the body All Gaul," the body of the bee is divided
in to three parts.
These ape called the These ape called the men," and the " abdo-

The Head carries for customary organs or seeing, hearing, leeling. But beyond this the animal re-
samblance ends. smblance ends. The jaws work sidewise, and, up and down, ing teeth, they are when joined together, when joined together,
as two spoons would
do. The bees use them to manipulate the wax, to grapple
with a robber, or to tear a w a y rough
fibres, and throw out fibres, and throw out Their food the hive. taken in liquid form, sucked up through the
long tongue with the long tongue with the
assistance of lour appendages which surround it, It is not
a tube, but it is easily rolled into that form at the will of Lhe bee. Like our
little companion the house-fly, the bee has side of its head, composed of thousands of
little eyes crowded together like the ceils There a honeycomb. simple eyes on the nose is used only for smelling, and you would not recognize it at all; in fact, you could not see it without a microscope. It consists of " smell-hollows "" located on
these wonderful little feelers called " antenne", The substitutes for ears are also thought to be located on the antenne.
The Thorax, or middle division of the body, has a much harder shell than either the head or abdomen. be supports the legs and wings. When
Hying, a bee practically has but two wings; but when it comes to rest, these become four, in order that the hindermost and lesser pair may be pair. These double wings, when closed, are a great convenience in exploring flowers and movIng about the crowded hive ; but it would be
disastrous if, when set for flight, they were to disastrous if, when set for flight, they were to
separate. This they never do, however, as they are locked together with ingenious little hooks which the bee can instantly fasten and unfasten at will. As convenience also requires the wings
to be short in proportion to the load carried they are geared up to an enormous speed, it hav flight been calculated that during their swiftest flight they make upwards of four hundred vi-
brations per second. Powerful muscles are necessary to maintain such high speed, and the thor ax is a mass: of muscles, perhaps the most re-
markable of its. kind in the world. By listening
to the tone of the bee's wings, one can soon learn the state of her mind, for the low hum
happy industry is very different from the high-
keyed note of fear or anger. keyed note of fear or anger.
The six feet are all alike; but, while the legs
share equally in the labors of walking, running jumping, clinging and climbing, each pair has its own individual duties, different from all the rest,
The foremost pair is the smallest and shortest. They are the servants of the head, keeping it and its important organs clean. One of the prim
functions of the legs is to keep the bee clean. functions of the legs is to keep the bee clean. nor koep herself so neat as a boe. The front
negs are used for this purpose particularly, and the middle legss also help. On the third pair legs are the baskets for storing and these are borne by all the workers, but not by the queen and drones. The worke gathers hhe pollen from the anthers with the legs
mixing it with a little honey to make it form mixing it with a little honey to mak
The Abdomen contains the two stomachs and The intestines, the principal organs of respiration pockets of the worker, and the sting. The nec tar obtained from blossoms, after mixing with saliva and passing through the mouth and gullet enters the honey stomach, which is located in the ront of the abdomen. Nectar contains," cane sugar "; honey contains "grape-sugar" bee. When she returns to the hive, she inserts her tongue into a cell of the comb, and forces
the nectur back through it into the cell. She he nectar back through it into the cell. She at leisure. For this purpose, the honey stomach is supplied at it lower extremity with a stomachmouth, which opens with a complex valve intc the digesting stomach. From this on, the proc-
ess of digestion is similar to that in animal life.
The heart, formed of five elongated rooms in
he abdomen, extends into the thorax and the head. The breathing organ is also spread out through the whole body, and the air comes into
puritying contact with the blood throughout the whole system. On each side of the abdominal cavity there is a large air-bag, which varies in size according to the quantity of air it contains. the body which open into the air-bags and passages. Filling these with air puts pressure on the intestines, and enables them to discharge the only be distended when the bee is flying, hence can only be distended when the bee is thying, hence
perfect cleanliness is maintained in the hive. As here are long periods in winter when bees cannot dy and discharge faces, the necessity will be seen providing the condation of refuse in the intestines.
The wax pockets of the worker are eight in the wax is secreted in the form of delicate scales. ping, the younger workers fill themselves with honey, and hang in festoons in a warm part of the hive until the wax scales grow on them. It
takes about. twenty-four hours for a bee's food takes about. tw

THE STING
The last organ in the abdomen is the on the honeybee's weapon of defence, and is indis pensable to her preservation. Without it, the attraction which honey presents to man and aniof this precious insect yeara ago. The organ is composed of a poison sac, and a firm, sharp
sheath which supports the sting proper. The latter is composed of two spears of a polished,
horny substance, which, supported by the sheath, ing, the spears emerge from the sheath, abou two-thirds of their length. Between them and
on each of them is a small groove, through which
the liquid, cominer from the poison sac, is ejected into the wound. Each spear of the 'sting has about nine barbs, which are turned back like
those of a fish-hook. These constantly catch hold of the object stung, and the sting is torn from
the bee and remains in the wound. The organ has an invoiuntary muscle
slidine motion, continues to vent either from slipping bound; the barbs pre other little muscles are pumping in the poison, which makes the otherwise simple operation so
painful. The sting usually tears away other or gans from the poor bee, who loses her life it
what she considers to be the defence of her home

A Necessity.
ir years, and feel that it is one of the ner



POULTRY.
Crate-fattening at Pembroke.

## Editor "The Farmer's Advocate : Inotice, in your issue of Jan. 26 th,

respondent desires some further information fron me with reference to my personal experience in
the crate-feeding of poultry. The question of how long it should take to there seem.s to be considerable diversity of opinion on this subject, even among successful poul
trymen. At our plant here, the period varies trymen. At our plant here, the period varies
from ten days to two weeks, but others who have expressed their views on the subject, place the time limit as high as three, four, and even five It is probable that varying conditions, and even the varying aims of feeders, are largely re
sponsible for this diversity of opinion. With us, business is conducted on a strictly commercial basis; and, while many experiments are made, intended to govern those who raise poultry for profit, conceding nothing to fads and fancies.
At some stations, experiments are designed to cover a wider range of practices in the rearing
and fattening of fowls. They undertake to teach and fattening of fowls. They undertake to teach
the farmer not only how to fatten mature birds, but how to develop and market broilers and chickens in all stages of immaturity. Occasionally a poultryman may find himself in a position
to profit by such experiments; especially should he find hirnself closely in touch with a good metropolitan market; but in the vast majority of instances the poultryman will find it to his in-
terest to confine himself to the straight commercial proposition of developing and fattening poul try for profit along the lines of least resistance. He will let his fowls mature in the open, and then rush them through the crate-fattening process as
rapidly as practicable. The Poultry Yards of Canada is an establishment which takes this view of the situation, and bases its methods upon it.
We believe that, as long as a chicken is growing, he should be allowed light and air. is growing, exercise he is disposed to take, thus developing a didly serve him when he shall be called upon undergo the trying ordeal of crate-fattening which to lay a heavy coat of rich, tender, iuicy flesh as rapidly as possible.
From a purely commercial point of view, it looks like a waste of raw material to take a
chicken when only one or two months out of the chicken when only one or two months out of the
shell, and put him in a crate for fattening; but at the same time, it is improbable that such little fellow. weighing not more than a pound and
a half or two pounds, might, if possessed of strong, sound, vigorous constitution, go on growing in the crate, as well as fattening, and thus make an appreciable gain in weight after the
thirdy or even the fourth week in the crate; but from a business viewpoint, the proposition does not look at all attractive.
Cockerels five months ol as having attained their growth be looked upon heady for the fattening crated maturity to b hens one year old and upward, and old roosters may be expected to fatten in from ten days to It should be borne in mind that, while there
should be a distinct and appreciable profit on the gain in weight made in the crate-fattening; that
is, that the bird should make monev for his owner by turl ing grain and other feed into mar creased market price per pound which the in bird will command, as compared with the unfatThus, a four-pound, unfattened cockerel, at ten
cents a pound, would bring forty cents. Put a pound and a half of flesh on this bird,
even at a cost of fifteen cents, and becalse he has
been fattened and heen fattened and loaded with fine-grained, juicy,
tender flesh, in the place of muscle hardened and tougheried by exercise, he will bring twelve cents
a pound, instead of ten, and so he becomes worth
sixty six conts In making one's calculations upon the profits of crate-fattening fowls, one must never lose sight
of this improvement in quality for a moment The healthy bird, while eating heartily in the
crate, will not only give a protitable return in the increased weight of flesh for all the rations he will consume, hut the difference hetween the
respective prices of the fattened and unfattened
fowl flosh will In vies of this, it looks like a poor husiness
propusition to permit fowl to take up, crateroom
any longer than is necoscary dain in weight contl he made after the second or
essary to work our plant at high prusure, so
that keeping birds which are past the period of highest profit-making is a more serions matter
than one might suppose at first sight. The fatening season is not long, and it should be util-
lized in working the plant to its fullest cut In such an establishment as ours, it would be a costly experiment to keep one batch ii fowls are one thousand birds, and this would mean have away in something like three miles of crates, beore the first killing.
fowls. and put them through in fened his own fattening process might be extended for the sake of marketing any surplus rations which he hapwere sufficiently robust to stand up under the confinement and the gastronomic pressure; but, fowls five months old and upwards should reach days to two weeks after crating. The published experiments
made at the various poultry stations throughout Canada, although many of them have been with
chickens not more than two months few with really mature birds, readily point to this conclusion: The gains in proportion to the
feed consumed after the end of the second week feed consumed after the end of the second week have materially diminished, and, at the same
time, in none of these experiments have the items of labor, interest on capital invested, and rent
of plant, been permitted to enter into the esti mates. All these are items which must be taken be worked all the year round, and it behooves the owners to make hay while the sun shines. Even the farmer who finds that he can put through all his fowls in one batch should be led to one of
two conclusions: he has not enough birds, or has too much plant has not enough birds, or he As to the rations for crate-fattening birds at
the Poultry Yards of Canada tude is permitted. One which has produced food the following: tities, mixed with milk, plenty of grit and water
Another, which is in still Another, which is in still greater favor, is as
follows: Equal quantities of ground oats, barley and
shorts, mixed with soup made of bones and scraps, with tallow in the soun made of bones and be muelted and mixed in the or the tallow may plenty of grit goes with each ration, but in the
case of this last, the birds are given milk to trink, instear of water. of crate-feeding the in considering the subject that it has a twofold purpose:
marketed. 2. Fattening with profit ; that is, turning the
rations worth which is worth vastly more by the pound, and
making the correlation between the weight of

## GARDEN ORCHARD.

## Peaches vs. Apples

We hear considerable talk aibout the lowering
ot he tarif) and whether rit will be benefficial to
the farmer on the farmer, or not. And we hear of the peachof their trade being ruined. Now, let us consider whether they have much to complain of.
They say the Americans will flood the market vith early peaches. Now, what proportion of armers can grow peaches? Does one in one hun-
Ired grow them? Anyway, we should think of our city cousins, who, in time of sickness, or when prices for the juicy fruit. If I am rightly informed, our neighbors across
he line, in New York State and Michican, grow the line, in New York State and Michigan, grow Ontario, and compete with their more southern ill grow successfully, apples will, also.
Ail I rightly informed, Mr. Editor, that our demonstration orchard near London is an apple orchard, and, that, valuing the land at
$\$ 1$,oon per acre, you declared a dividend? And When Mr. Johnson, of Forest (who seems to hen Mr. Johnson, of Forest (who seems to
henk ihe admission of free peaches is going to
lin him) was askerd as to his opinion of the him) was asked as to his opinion of the
of the orchard, said, if it were his, he d mit take even the above price for it. Now,
mon likse if such men as Mr. Johnon ivould
nit

## 

$\qquad$

THE FARMER'S ADVOCATE
8. 1.-Viem in mpple orchard, Hood River, Oregon.
showing upright habit of growth of tow-headed trees
The trunks vary, in tengsh trom 15 to
to
tinches.
ontrast ens wath the orim or appil trees as they
row when heaced high, and it will be seen that these low heads art
one might expect.

## Pruning.

. Crow, Professor of Pomology, Ontario AgriculVarious reasons for pruning have been given been made to express in concise form all the reasons there may be for the pruning of trees and
plants. If we accept the dictionary definition of a principle : "A A law comprehending many
a
subordinato subordinate truths; a law on which others are
founded, or from which others it seems possible to express the fundamental prin
ciples of pruning in ciples of pruning in these three statements :

1. We prune to modify the form of trees an 2. We prune to regulate (in part, at least) fruit. We prune to improve the quality of the I am quite aware that, in undertaking to pre-
sent an article on the subject of pruning, I am sent an article on the subject of pruning, I am
expected by the majority of readers to deal with the matter in a parely of readers to deal with
pruit-growers wish to know how to prune Most

g. 2. - Short trunks, but high heads-no bearing wood
within ten feet of the ground. Most of the missing lhranches have died for lack of light. ${ }^{\text {M }}$, The miss-
The dense tup simply requires thinning out . Watersprouts
shutd be allowed to grow from the lower part of
thun Wain branches. These in a few years would
ally panies say, if the duty is taken off, they will give
us fitity cents a ton more for beets. Farmers in Michigan are getting $\$ 12$ per ton for hay white we more than here, all things considered.
one-half mon Co., Ont.
Lambton CAMPBELL. iNote--Our correspondent is correctly formed as to the points about which he asks assurance. Sc far as our friend Mr. Johnson is
concerned, we fear that his generosity induced him to lend the weight of his official position to a request on behalf of his brother fruit-growers tha
self-interest would never have prompted him to self-interest would
support.-Editor.]

of sugar beets and hay would like to have an when to prune. Comparatively few men are in
open market. The Michigan sugar-beet com- terested in learning why we prune, but it seem
when to prune. Comparatively few men are in-
terested in learning why we prune, but it seems
to me that a man of intelligence the fundamental of intelligence, who understands much more capable of carrying out the technical part of the work than a man who understands nothng more than what to do and when to do
it. The necessity of understanding the reasons for doing a thing in a certain way lies in the fact that one is being continually way lies in the fact problems. One who does not understand the tion is entirely at a loss with regard to fopera for himseli a solution of a new problem, whereas one who comprehends the underlying reason will me able to invent for himself a satisfactory In this article we shall deal with the form of
trees, leaving the other phase trees, leaving the other phases of pruning to be that the natural form of the tree We may state for the purpose of securing greater convenience in handling. It requires no demonstration in order .o make plain the fact that a tree with a low one with head of a tree close to the ground is simply a matter of saving dollars and cents in carrying on these operations. The majority of trees in On-
tario are headed at from three to five feet in height. This may be quite satisfactory feet in the standpoint of the farmer who does not wish to invest in a special line of orchard machinery; hut, as a matter of actual fact, trees can be
cultivated satisfactorily, even with ordinary tools when the trunk is restricted ordinary tools, length. An orchardist who cares to provide himself with implements specially built for the pur-
pose will be able to cultivate pose will be able to cultivate, with perfect satis-
faction around trees headed or even fifteen inches. It must be borne in mind that the natural growing habit of a tree headed low is entirely different from that of one headed
at the ordinary height of four to at the ordinary height of four to five feet. The
shorter the trunk, the more upright is the direc tior of growth of the branches, and, as the matter actually works out in practice, it is not ap-
preciably harder to cultivate low-headed trees (provided the head has been properly formed) trunks four or five feet in length, the branches o which have been allowed to take a horizontal

. 3.-Open-headed trees (Tolman Sweet). Othe
varieties of this type are Duchess and Wealthy They normally develpe fruit suchess and Wealthy to the very base of the main branches, for the sim-
ple reason that abundance of light reaches those parts of the trees. Should have been headed back at the points indicated, so as to increase the number or branches, and thereby provide additional area Tolman illustrated, should be prowed to such as the or to branches having an upright direction. Upright growers, such as most varieties of pars and many
kinds of apples and plums, should be pruned to
outside buds, or to branches growing It must not be thought that a tree with a
short trunk is necessarily low-headed, and, contrariwise, it must not be imagined that a tree
with a long trunk is necessarily high-headed. It
is is possibie, in the first case, to keep the lower
branches of the head cut away, and to form that manner a tree, the lowest bearing branches
of which may be several feet from the ground. On of which may be several feet from the ground. On
the other hand, it is possible. in the case of a tree with a long trunk, to give the branches
downward direction of growth, and to make tree the bearing branches of which may reach
nearly or quite to the ground. So far as connearly or quite to the ground. So far as con-
venience in handling alone is concerned, the ideal form of head is broad and flat-topped. Such a head is mucis more easily constructed on a short
trunt than on a high one. Many of our peachgrowers are growing trees with trunks scarcely
more than a foot in height, and many of apple-growers are adopting the low-heading idea in creater or less degree. In the West, apple
proper method of forming a broad, low head ceeding article, and need not be more definitel mentioned here. For the sake of convenience in handling, it is also aecessary, in some cases, to head lack the course, desirable clos-planted trees. It is not, o the branches will interlace bu closely that will in many cases obviate the necorsect pruning Another reason for modifying the natural form strength can he in socured cases greater mechnnical quently result be secured. Serious injury fre quenty result.s from allowing branches to come
off from the trunk in such a manner as to form -

ig. 4.- Pear tree badly deformed by winds. Should ment is likely to delay fruit bearing for such treatprevent, it altögether.
a fork. Branches shourn at a broad angle, if possible, and it is desirable as well, to have them spaced at least two or
three inches apart on the main trunk. There are two general types tre ing known as the open-center or vase-form, he the other as the central-leader type. trees of the latter style suffer less from the broak ing down of branches than do trees of the open ing paragraph that vase-formed trees are broade and permit of the construction of a wider und
lower head. We can certainly state here, howover, that the trees of this form here, howserious objection on the score of mechanica strongth. It is much more difficult to secure down the trunk in the case of branches up an tree; and if the pruning is continuously owards the production of trees of the open-cen tered habit, it is even more dificult to keep the probable that artificial support will it is necessary when the extreme type of this tree is dopted, owing to the fact that, after having they bolde down by the weight of a fruit crop they seldom regain their normal position if lef A second point in which trees may be so gard to the number of main branches they are al lowed to possess. If too many are allowed to crowded, and therefore slender and incapable a bearing heavy weight. It is better to start with

2. 5.-Was in similar Fig. B. - No. 4 after prunrllustition to No. 3.
ing. Shoots growing
akainst the wind were $\begin{array}{ll}\text { year's growth after } & \begin{array}{l}\text { against the wind were } \\ \text { lett wherever possible, } \\ \text { and these in all cases }\end{array} \\ \text { heading back. }\end{array}$ were pruned to bude
a smaller number-from three to five-and, isy
heading these back, cause them to branch out, un-
til stronger branches can be developeod in this way A third reason for modifying the form of trees fe in order that the maximum area of bearing surfoce may bo developed. Some varieties na-
turally produce very turally produce very few branches, and grow, con-
sequuently, with
very
open
heads.
Additional


Fig. 7.-Northern Spy tree in summer. Head very
dense ; impossible for light to penetrate to
bearing area may be secured in such cases by in order to increase their number, thereby stage up the head of the tree to the desired extent on the other hand, a good many varieties produce so many branches that it becomes necessary to reduce their number in order to admit light
to the center of the tree in sufficient quantities to insure the development of suificient buds. Weantities developed leaves are necessary for the production
of well-developed fruit buds, and it is a matter of


Fig. 8.-Same tree in winter-before and after pruning. edly delays fruiting very considerably
 buds can bo oxpoctod to develop. Treas of this
yppo of hould not to houded back more than is abso-
 erly. These trees will be referred to next week, in
connection with summer pruning.
comnoon observation that the development of
leaves depends very largely upon light conditions. leaves depends very largely upon light conditions.
Where high winds prevail, it is sometimes found necessary to prune in such a way that the growth of the tree mayy be directed towards the
wind. instead of away from it. If this matter wind. instead of away from it. If this matter
is disregarded, trees become unsymmetrical in is disregurded, trees become unsymmetrical in
shape, and considerable areas of bearing surface shape, and considerable areas of
may be lost.

In Victoria, Australia, the demonstration-or chard idea. is being vigorously worked on a new
principle. The fact that numbers of varieties valuable fruit trees refuse to bear of varieties of certain localities or situations; or that they bear
irregularly; and, also, that many fruit trees do not carry the crops that their size and age do-
mand they should carry, has led fruit-growers and experts to consider that the whole quest ion of
the stock and stock management should opened. In these orchards, not only will apple
trees on Northern Spy and Majet in stucks trees on Northern Spy and Majetin stocks be
planted, but trees will be worked on as mary
kinds of stock as may be obtained the nursery, the usual dwarfing stocks, the French Paradise, and Cole's Blight -proof Paradise, are
planted out for testing, as well as stocks from planted out for testing, as well as stocks from
England, Spain, and Japan.

THE FARM BULLETIN.

## Our Scottish Letter.

THE GLASGOW STALLION SHOW This must of necessity be a horse letter. T so much was crowded into the one day that many books might be written concerning it. The judges were somewhat numerous, because the purposes
for which Clydesdale stallions were being looked for which cursus. The opinions of the judges
for were numerous. were almost as varied as their numbers, and in the end of the day we enjoyed the rare spectacle honor of the show, awarded to a horse which was only third in his classes, and these positions
meant the decisions of five judges. Nothing like meant the decisions of five judges. Nothing like
this has ever happened before, and the most rethis has ever happened before, and the most re-
markable fact connected with it is that the final award was generally conceded to be the right one. But in view of such things, is there not room for some codification of opinion as to the points of learn something at the Glasgow who wished to have boen bewildered, and the student who at-
tempted to improve his knowledge tempted to improve his knowledge must ha
wondered what had happened to his monitors. we lo let the uninitiated understand the position we will explain. Two sets of judges (three each) old, and a horse rising three years old to travel in the Glasgow district during season 1911 These judges must be directors of the society, and,
if possible, probable users of the horses. This year these two benches were composed as follows For the older horse-Messrs. Robert Hamilton,
High Motherwell, Hamilton; John McAlister Ardyne, Toward'; and J. Cairns, Abercrombie, St. Monance, Fife. For the younger horse Messr's. John Hastie, Eddlewood, Hamilton; Alexanthur Lang, West Kilbride, Kilmacolm. Thand horses chosen by these benches, out of respective Vots of 23, were John Pollock's Montrave Viceroy 14278, rising five years old, and Wm. three years old. Both are thick draft horses, of the lorry type, with good middlepieces, as well in a high-class Clydesdale. in a high-class Clydesdale. Both horses are out
of mares by Baron's Pride 9122 , and Montrave Viceroy has the unique distinction of claiming Cawdor Cup champions for both his sire and dam This is conclusive proof that prize animals are the contrary, the history of modern Clydesdale proves that so far as they are concerned this heory no longer holds. Hiawatha 10067 is sire of Blackstone. The reserves placed by these benches of judges were in the older class : (1) A M. Simpson's High Merit 14677, a horse with marvellous action and very showy ; and (2) Mr.
Taylor's stylish horse, Sir Winston 14867 ) beaul tifully moulded, but a little hampered in his ac tion. In the younger class: (1) Perfection, a roan horse, by Baronson 10981 , and a good
mover, with plenty of strength and substance and mover, with plenty, of strength and substance; and
(2) Mr. Marshall's Macaroon 15936, a stylish quality bay horse, of the fashionable type, got by Baron Burgie 13345 . This horse in the end of
the day became Cawdor-cup champion. the day b.
called the cisions came under review in what are called the open classes. These include all the trict premiums, and any others that may be distered for ordinary class prizes. In the aged class Mour additional were entered, and the judges were William Spittal, Kenmuir, Tollcrowton, and gentlemen did not Keriously upset what the These of three had done, although having one bench additional horses to deal with there were or twodifi cations in the results. Their awards were: 1 Montrave Viceroy; 2, Mr. Taylor's Sir Dighton
13760 , which would have made a popular first 3, the same owner's Sir Winston; 4, Mr. Simp son's High Merit; 5, Mr. Kilpatrick's Baron Bel
mont 13973; 6, Mr. Todd's Marcellns mont 13973; 6, Mr. Todd's Marcellus A. 15310 ; in the three-year-old class that the upheaval took place. The open class contained ten more horses than the confined, and, of course, these had to be taken into the reckoning. But the two julges,
Messis. James Fleming, Frioch Mains, Ambroath,
and A. B. Matthews, Newton Stowither and A. B. Matthews, Newton Stewart, Ambroath,
than this; they overturned the previous decisions in a spirited wholersale fashion, as the following
results show: They placed wim results show: They placed Wm. Dunlop's
celelerated Dunure Footprint 15203, the champion
of last of last year, first, and Mr. Taylor's Sir Rumpolph horse, which wion several prizes last year, second These had not been before the other judqes. In 11. Johnston's Montraigie Dorando 15188) ; 5

same remark applies, and they placed Blackstone
which the three had put first, tion, which they had put second ninth Perfec There were also classes for two-year-old and
yearling colts. These were judged by James Weir, Sandilands, Lanark, and Ricsre Fleming, Bent, Strathaven. In the former clasg
there were 18 entries, and in the The winners in both classes were owned by


Fig. 9.-Mature Spy tree, badly in need of pruning loo many small branches. Can only be properly pruned by working on the outside of a tree from a The area within the line is entirely unproductive,
all the small branches all the small branches having died for lack of sun-
light. In northern districts trees of this type should be opened up gradually, as there is serious
danger of sunscald of the or sunscald occurring on the exposed sides tree should get a severe thinning out districts this
m. Dunlop, Dunure Mais

Wm. Dunlop, Dunure Mains, who thus won three
first prizes, and all with sons of Baron of Buchlyvie prizes, and all with sons of Baron of Buch-
11263 . The first-prize two-year-old is Dunure Index 15809, first-prize two-year-old is Footprint, and the first-prize yearling The Dunure. The There are two champion trophies at the show: tered horses of all ages, which have passeg veterinary examination, and the $100-\mathrm{gs}$. Brydon Challenge Shield, which is open to horses rising three years old and over, which have passed a


Fig. 10.-Upright habit, typical of many varieties of it has no real need of a trunk. Branches should ,
veterinary examination. All horses competing compete ; in the case of the Brydon Shield horse may compete which has not been "vetted, vo horse cannot win until he has passed as sound Footprint, therefore either trophy twice. Dunure Cawdor Cup, which he not compete for the trave Viceroy did not compete for the Brydon
Shield, which he wo Shield, which he won last year. Two new bench for the Cawdor Cup consisted of Messrs James Weir, Sandilands, Lanark; J. Ernest Kerr Hallside Narviestown, Dollar, and Robert Murdoch fore them were Montrave Viceroy, The came be Ierit Index, Sir Rudolph, Macaroon, and High of the judges was practically a new class. One the horses before: Mr Weir, had never seen any of Counger horses, and Mr. Murdoch had seen the two Thave Viceroy and High Merit only. There were especially as neither of thange in previous form,
february 23,1911
THE FARMER'S ADVOCA'IE
result was the placing of the supreme honor on
Macaroon, with Montrave Viceroy reserve. After Macaroon, wis came on the competition for the Brydon
this
Challenge Shield. The bench this time consisted Challenge Shield. The bench this time consisted
of Messrs. Cairns, McAlister and Fleming. Before of Messrs. Cairns, McAlister and Fleming. Before
them appeared the three-year-olds, Dunure Footprint, Sir Rudolph and Macaroon. Neither of the print, had judged these horses before, and, there-
three he, it was again a new class. They placed
fore, fore, it was again a new class. They placed Rudolph third. As a cart horse of weight and substance, Sir Rudolph is the best type among
the younger horses shown on Wednesday. He has improved more than Clydesdale matters have occupied attention to
the exclusion of almost everything else this week. The Clydesdabe Horse Society had a most success ful annual meeting on February 7th. The
Society is in a most flourishing condition. The capital stood at £7,235, and during that year
the export trade reached 1,531 head. No such record of exports has ever before been made by a
British breed. For 1911 . well. Horses have already been exported to Russia, and between 60 and 70 head have been exported to Canada. Mr. Taber sailed with a fine
lot a fortnight ago for Condie, Sask... and Mr Curry, Medicine Hat, Alta., had also a large ship ment of quite superior animals. Canada has been a good friend to the Clydesdale, and the Clydes
dale Horse Society has, during the dale Horse Society has, during the past year, in prosperity of the Dominion is cordially rejoiced in by the breeders of Clydesdales, who have every reason to thank Canada for what she has done
for the breed. Our politicians have been diseun for the recent commercial treaty which the Do minion has made with her big neighbor south of the lakes. I suspect, Canada knows her own busi-
ness best, and can be trusted to look after herself ness best, and can be trusted to look after herself
even in a deal with Uncle Sam. This kind of thing does not interest me, but I could wish that the whole world would be content to wage war fare in commerce and goodwill, and cease building
Dreadnoughts and other engines wherewith stroy one another SCOTLAND YET."
The Seed-improvers' Meeting. growers' Association has passed into history
It is expected that a considerale result, as the papers presented and the discus sions which followed were not only interesting, but
instructive. The meeting, as usual, was held in rooms of
the Seed Branch President, occupied the chair. In opening the convention, he remarked that the Association did not represent so much of a cash value as that it agricultural methods. Three great factors which contributed to this was the-soil, management and good seed. In this country agriculture was
greatly favored by climatic conditions, in that the rainfalls were regular and. reliable, comparatively speaking, and the soil conserved much of
its fertility by being frozen for considerable its fertility by being frozen for considerable periods of the year. Knowledge in the manage seeds was indicated by their vigor of Qermination and growth and general adaptability. He thought
the association was an effective agency for disseminating the best agricultural arincy friples, and seminating the best agricultural principles, and
this in turn affected the quality of life, which this year was the Doctor's slogan, and around which
all his observations revolved. He believes that he "quality of life" in plants, as in animals, can iation's methods meant bigger and better crops The report of the Board of Directors was pre-
sented by E. D. Eddy, who, during the absence sented by E. D. Eddy, who, during the absence
of L. H. Newman at Svalof, Sweden, acted as Seretary-Treasurer this summer. The sixth an-
nual report was teden, acter as nual report was taken as read. The sixth an-
made to a transaction in seed grain, by whas made to a transaction in seed grain, by which
1,000 bushels of Banner oats, grown from registered sed on P. Banner oats, grown from regis-
of Quand, was sold to farmers
Quebec at their annual Provincial Seed Fair $\$ 12500$ City, at a loss to the association of about $\$ 1.5 .00$ The directors recommended that this
privilege be extended to other Provinces. It en-
dorsed privilege be extended to other Provinces. It en-
dorsed the publication of a text-book on oats,
for use in for use in the Quebec schools, under the direction Of Mr. Giyrault, Deputy Commissioner of Agricul-
ture, Quebec, last year, which was prepared by
Messrs. Gibson, man, the Secretary-Treasurer of the association general report be published on cereals, for the use of schools all over the Dominion. It was further
recommended that on the the be extended that the thanks of the association courtesy, qiven to the Secretary-Treasurer, Mr.
Newman, during his stay at Svalof. lows:- F , solut chair committees were struck as fol-
Mossrs. Klinck, Wheaton and Mooney; nominations, Messrs. Gigault, Moore and
Macoun. and publication, Messrs. Eddy, Newman

The report of the Acting Secretary, Mr. Eddy, operated with about 424 crops, an members had per member. Many of the members failed to send in complete reports; in fact, more than $50 \%$. A large number of the potato men were among tion's regulations, and failed to give complete re ports. About 25 names were submitted to re On the whole, the report was optimistic, and

H. Williams, Fletcher, Ont.
showed that much progress had been made durin the year. The Treasurer's part showed that something over $\$ 6,000.00 \mathrm{had}$ been placed at the
disposal of the association, and that about $\$ 1,100$ was left to close the year with on March 31st his would, it was believed, be ample to defray S. J. Moore, District Repre

Maritime Provice Representative for the work for the season. He had a summary of his the operating members, and foun

ohn McKee, Norwich, Ont
them doing good work. He had not solicited every farmer to become a member, as he thought count. The chief object after all was for the The field-crop competition work was enty of it Arrangements were being made for competitions. in every county in Nova Scotia this year. They
hall a very fine Canadian Seed-growers' Associa-
this year, in conjunction J. C. Coté, reporting for Quebec, said that as farmers who had given selection, a number of enlisting, as they saw a marked difference in the results from the use of their selected seed and commercial seed. The field-crop competitions
were growing in number and interest were growing in number and interest as well.
Several societies were buying for thir some of the seed oats brought by the association from Prince Edward Island for sowing on their fields, which will be entered in the field-crop comMr. Raynor said that he had inspected this year all the plots but one or two in Ontario, which meant that about 60 members were visited, and 110 plots inspected. He said some of the work, as they were getting results both in crops and ready sales at remunerative prices. One
member had turned down $\$ 400$ wor member had turned down $\$ 400$ worth of orders.
He had sold one customer 100 bushels of wheat for seed this yearemer at an advance over marwhe prices, and this year at an advance over marsmall sale to the same man, who found that the better than his own seed. Another member had 4,000 bushels of Siberian oats to sell. In the past he had sold all he could grow and make into found seed oats for $\$ 1.00$ per bushel. He had but Scotland, Maine, Ohio and Michigan. It was also noted that, through the carelessness of another member in allowing barley to get in his of 1,400 bushels this year for seed at $\$ 1.00$ pale bushel, and would have to take feed prices now or what he sold. He had injured his reputation a year ago or more for $\$ 1.00$ per bushel which contained considerable quantities of barley whic dea was advanced that more enthusiasm should be evidenced, not only, by members of the assotension of its work. An example was cited of how Prof. Moore, of the Wisconsin Experimental Station, was enabling many of the young farmers of that State to make anywhere from $\$ 300$ to $\$ 2,000$ a year growing some pure strains of corn,
barley, oats, etc., he has originated at the Experimental Station there. The Canadian Seed growers' Association exhibits at the Guelph Winter Fair were more numerous and of better qual
ity than ever before. At the conference bers during the fair, some very useful and practical hints were obtained on seed improvement. J. H. Reid, District Representative for Sas-
katchewan and Manitoba, sent in his report, which was encouraging, and emphasized one very important point, and that was, that this year of lest out there had demonstrated the greater vitalgood crops were obtained in the one case where there were comparative failures in others. ${ }_{\text {He }}$ spoke of the success of the seed fairs and field-
crop competitions. Many crop competitions. Many of the prizewinning
fields and lots of seed exhibited at the seed fairs may be traced to selected seed as its origin. In the discussion which followed, Mr. Briggs, of the Steele-Briggs Co, advanced the idea that a man
had to be something of a mechanic to operate had to be something of a mechanic to operate a
fanning mill properly, and on the proper use of it fanning mill properly, and on the proper use of it their work, as well as in selection. Mr. Mooney. who had been a miller in Quebec before he went
West, emphasized the use of a fanning-mill selec West, emphasized the use of a fanning-mill selec-
tion, and said he could get better results from a power mill. It was elicited from him that he was selling carloads of seed wheat now at $\$ 1.50$
per bushel more readily than he sold wagon loads a few years ago at $\$ 1.25$ per bushel wago loads The nominating committee reported mended that Dr. Robertson be President again; Prof. C. A. Zavitz, First Vice-President; Mr Gigault, Second Vice-President; Mr. Mooney, Messrs. Zavitz, Gigault, Mooney, Clark, Wheaton, Klinck, Innes, Bracken, Harcourt, and Thomas Waugh. The report was adopted. This board At the evening meeting, held in the Normal School Assembly Hall, there wasn't a large rathering, but two interesting addresses, from the Hon. Sydney Fisher and the President, were lis-
tened to. Hon. Mr. Fisher spoke in the place Prof. C. C. James, who was detained through unavoidable circumstances. The other part of the
programme consisted of two papers, by programme consisted of two papers, by L. H.
Vewman, on his observations at Svalof on plant breeding, and the methods used for multiplying improved seed and disseminating it. Dr. Malte, of the Seed Branch staff, gave a paper on the im-
provement of fodder plants by selection. These papers and the discussions will be dealt with later. Suffice it to say they were not only in-
teresting, but instructive.
T. G. RAYNOR.
The C.P.R. directors have declared a dividend at the rate of 10 per cent. per annum on the
common stock for the quarter ending December
$31 \mathrm{st}, 1910$.

## Reciprocity

Editor＂The Farmer＇s Advocate＂：
The constant vigilance on behalf of the farmer and genuine interest in his well－being，are in un mistakable evidence，as found in the editorials of he Farmer＇s Advocate．
A week or so ago，your readers＇attention wa drawn to the folly of＂Selling the Birthright
away from the land，which showed the lack business judgment on the part of some Quebec farmers，to the advantage of the United States farmers．
On，April 30th，1905，＂The Farmer＇s Advo＇ cate＂advised an＂Export tax on the farmer＂
raw material，＂the following quotation being tak en from the editorial：＂It is universally agreed that，of all forms of fiscal protection，export tax
on raw material is the best．＂
This had direct reference to the euporting of ashes ot o the extect
of $\$ 117,326.00$ diring 1903 to the United States of $\$ 117,326.00$ during 1903 to the United States
With regard to the shipping of bran and With regard to the shipping of bran and other
leed by－products，the editorial said ：＂Is it not
teime time the former had a schedule framed in his
favor？And what better move is there then favor ？And what better move is there than an
export tax on fertility and feeding stuffs ？ Again，on the subject of＂Tariff Revision and the Farmer，＂the following：＂Farmers，so for as we are aware，are not desirous of increased
duties on the commodities they produce their interest being confined chiely to opposing the ime， position of increased duties on articlese thes use．＂
It will be readily seen that your warnings were It will be readily sean that your warnings were
timely and the wisdom of your sugrestions can－ timely，and the wisdom of your suggestions can－
not be gainsaid，for which the farmer owes your paper much．
But，when the tariff flood－gates are raised，will
hot only our bran and other feed by－product well as the raw material，bel rushed over to the
 danger that the splendid and enviable position
the Canadian farmer may be injured？ heir own．They are well pleased with present state of things，and they have their ear to the ground，and are wondering whether it will
continue．Twenty years ago our surplus horses found a market in Dakota，but to－day the best market Ontario has ever known is found in our
own land，the Western Provinces．
Easily three own land，the Western Provinces．Easily three
times the price is being paid now as twenty years
 Uno wited States ranch horse would displace even or
portion of our heritage．The hog market to－day portion of our heritage．The hog market to－day
is very satisfactory ；the price paid for butter， eggs，poultry，etc．，for the last few years has been highly remunerative．I noticed a shipment
of eggs from Chicago caused a drop in Montreal of eggs from chicago caused a drop in Montrea A splendid home market has been built up in Canada during the past tew years，and the amount
of export cattle has become relatively
small． The eld Country is the market for all the surplus catte of America；those of Canada and the we can rely on quotations，the States steer com－
mands a cent more than his Canadian competitor． Then，if those same steers held their competing market in Chicago，the Canadian steer would still
be one cent lower，plus expense of delivering at oe one cent lower，plus expense of delivering
Chicago，making the present Toronto market little better for the Canadian than the present Chicago market．I have questioned a great many
farmers，and 1 have not met one single individual in favor of the proposed reciprocity compact．
Huron Co．，Ont．
M．LOCKHART．
（There are certainly grounds for commending
 natural markets．But，seeing that the export and are not soon ilikely to be，we cannot but wel－ come an arrement that will throw open the
lucrative markets of the United States to Cana－ caus agricutures did not provide for the eport dutent be－on
ashes and bran，would be like refusiny to to trade a cat for a ster．We are aware that some of out
readers cunscientiously oppose the reciprocit pact，and we respect their convictions．but we
believe the great majority，who say little，are delighted with the agreemient，and only hope it
will pass，while many present onponents would
be converted by a fow vearci trin

Manitoba Experimental Farm Superintendent． Jus．Murray，B．S．A．formerly of the See
Branch．Derartment of Auriculure，Othwa，D，
for the past four years Superintendent of the F

 B．S．A．，representative of the Seed Branch at


Packers and Reciprocity The meat packers of Ontario and Quebec are
opposed to reciprocity．In a memorial to the Government，which was agreed upon by the pork
packers＇deputation at Ottawa，recently，they state the case as it appears to them． They draw attention to the large sums money invested in packing－houses，which have a apacity greatly exceeding the aggregate supply
of hogs，and are deeply concerned as to the effect upon these investments of any change in tariff re lations at present．The export，and also the do－
mestic trade，in cured pork products，has increased greatly，and a continuance of this trade，they be－ Iieve to be vital to both packer and farmer in Ontario and Quebec．Under reciprocity，they
claime they would certainly lose the Vestern mar－ claim they would certainly lose the Western mar
ket for pork． They point out that prices Ror hogs in Canada，
while less variable than in the United States while less variable than in the United States markets，have，on the average，been higher．Unde
reciprocity，however，when a period of prices in in reciprocity，however，when a period of prices in in
the United States，higher than the export basis warranted should prevail，Canadian hooss would be marketed in Buffalo and Detroit，and the packing－
houses for the time closed．As the continuance houses for the time closed．As the continuanc
of our export bacon trade depends upon a regular weekly output，interference with this would mean， in time，practical extinction of the packers＇busi－ ness．In such case，prices of hogs here would
be governed solely by the average lower prices o the United States，and farmers，discouraged would go out of the business of hog－raising．
The memorial ends with a denial of the pression that commonly prevails，that con im packers have combined to hold down the price of hogs and raise that of the cured product sold in By way of
the proposed reciprocity bargain still leaves the packers a protection of 1t conts a pound－surely
suficient margin to sumficient margin to guard against the trade dis
turbinnces they fear．

## Ontario Milk Act

The Ontario Milk Act，embodying recommenda－ ing to questions of municipal milk supply，has been introduced into the Ontario Legislature by Hon．Jas．S．Duff，Minister of Agriculture．By it
the council of every municipality is authorized to the councll of every municipality is authorized to
pass by－laws regulating milk produced for sale within such municipality，as to （a）The care of cows producing milk for sale （b）The cleanliness，ventilation and sanitary conditions of the places in which cows are kept or milked，or in which milk is stored．
（c）The water supplied to cows． （d）The care，cleansing and type of all uten－ carriers or vendors． （e）The proper care，storage，transportation and distribution of milk by producers，carriers or （f）The making of bacteriological tests as a
guide to the wholesomeness of milk offered for
sale． （g）Such other matters regarding the produc－
tion，care，transportation or sale of milk as the municipal council may consider necessary，such Minister of Agriculture． Councils are authorized writing by the lating the granting of licenses to producers and ties where by－laws are in force is forbidden．The composition，seem rather conflicting，as sub－ section one，taken alone，would appear to forbid
the sale of buttermilk or skim milk，while sub－ section two jeems ambiguously to provide for the Sale of such products．Whole milk sold for hu－
man consumption must contain 12 per cent．
solids，of which 3 per cent must solids，of which 3 per cent．must be butter－fat．
Municipal councils are empowered to appoint in－
spectors with broad power to inspect premises of licensed vendors，and prohibit the sale of milk
which in their judgment is produced Which in their judgment is produced or handled
contrary to the provisions of the act or any regu－
lations thereundor Clause 6 prohibits the sale of milk from any
cow which，upon physical examination by a certi－ cow which，upon physical examination hy a certi－
fied veterinarian，shall be dectared to be suffering
from tuberculosis of the udder or milk clands．or whose mik，upon oacteriolosical or microscopical
analysis is shown to contain tuhercle bacilli，or
which is lnown to or ant hrax，or any other general or local disease
which is liable to render milk from such a cow the milk from a sumpectell coow In case of not be solt，
untii a permit has been granted by the municipal
Board exposed to cliphtheria，scarlet fever，typhord fover ervsipelas，small pox，anthrax，or any infectious
skin diseace，sharl assist in production，handling
or cinality is of mith．The councized to estahlish every mumi－ cinality is authorized to estahlish and maintain，
nr assist in the estahlishment and maintenance of，
mill depots．in order to furnish a special sumply
of millk for infants．A standard is prescribed for
certified milk，also for pasteurization，and pro certified milk，also for pasteurization，and pro－
vision is made for fines of from one to fifty dol March 8th－Hawtrey，8．30；Wyndham，10．25； Waterford， 1.00 ；Villa－Nova， 3.00 ． March 10th－Attercliffe，3．00．Welland， 10.25 ， Grance organization work is being pushed with
considerable success．At a meeting held for that 25．farmers in attendance，a resolution expressing approval of the Government re freer trade rela－
fions with the United States＂，was passed． A hill has heen introduced in the Ontario Tegislature by Mr．Filber，amending the act re－ ect that no traction engine shall enter upon or rect that no traction engine shall enter upon or
ross a bridge drawing behind it any tender，
lars for violation of any provisions or regula－
tions under the act． tions under the act．
Regarding certified milk it is Regarding certified milk，it is provided that
no milk shall be sold as certified until a certit no milk shall be sold as certified until a certifif－ have been complied with is obtained from time to time from the Medical Health Officer，or from
an incorporated society of medical practitioners．

Want More Reciprocity． The second annual meeting of the Canadian
Council of Agriculture was held at Regina Feb－ ruary 10th，representatives from the Grain－grow－ being present．Among resolutions adopted mes the following
Federal we acknowledge the forward step of the Federal Government in proposing to appoint an operation is necessary．
That the Government be meat－chilling and export system，with abattoirs， That the Council，while regretting that the reciprocity arrangements did not provide for further relief from the taxation on consumers ion that free trade in farm products would bo very beneficial to the farmers of Canada，and would strongly urge the Parliament of Canada to atiry the agreement，and would continue to urge preference 50 per cent．，and also that agricultural implements be placed on the free list．
Officers elected were．Pres．，Jas．Bower；Vice－ Pres．，R．C．Henders ；
Saskatchewan Gpain－growers． The membership of the Saskatchewan Grain－ There are upwards of 700 life members，who have paid the ten－dollar fee required；and when，to the large sum thus paid in，is added the gen
eral membership funds，it will be seen that the Association is strong financially．At the annual convention，held early this month，the main sub－ ject of discussion was the measure introduced in called＂．An Act to Incorporate the Grain－grow ars＇Elevator Company，of Saskatchewan．＂Fo ame such measure the grain－growers have been $t$ any tarmers＇elevators may be established qual to shipping point in the Province where stock which 15 per cent．must be paid un and wher the said stock－holders represent a proportion of
not less than 2,000 acres for each 10,000 bushels capacity of the elevator asked for．That done 85 per cent．of the cost of the elevator to be se cured by mortsage on the elevator，and repayable
in twenty annual installments．The directors of he elevator company，who will manage the con－ have power to acquire or build elevators，and will deemed advisable，and may deal in grain，as well

## Better－farming Special．

List of places to be visited on the Michigan Instruction Train．The train will reach each begin at the hour indicated，and instruction will
bence，lasting from an hour and a half to Feb．28th．－－issex， 8.30 ；Comber， 10.30 Learington， 1.00 ；Fletcher， 3.30 ．
March 1st．－－Charing Cross， 8.30 ；Ridgetown， M5；Rodney， $1.00 ;$ Dutton， 3.00 ．
March 2nd．－－Muncey， 8.30 ．Melbourne， 10.25 Wather＇s， $1.0 n$ ；Alvinston， 3.00 ．
March 3 rd．－Inwood， $8.30 ; 0$ Oil Springs， 10.35 ； Setrolia， 1.00 ；Brigden，3．10．$\quad$ March 7 th Kindemill 0．25．Brownsville 100 ， 8.30 ；Springfield，
$\qquad$

$\square$

 Associations of the three Western Provinces
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as handle

## e, 10.25 ;

## Springfield

febrtany 23, 1911
$\begin{gathered}\text { Che Canadian Bamla } \\ \text { of Commerce }\end{gathered}$

 | Racity tor the |
| :--- |
| banking business |

Accouns may bo operead by maiit
 SALES NOTES will be cashed Branches throughout Canada, in-
cluding Toronto, Hamilton, Montcluding Toronto, Hamilton, Mont-
real, Charlottetown, New Glasgow
and Traro

MARKETS
Toronto. At West Toronto, on Monday, February
20th, receipts numbered 110 cars, comprising 2,268 cattle, 229 hogs, 532 sheep,
39 calves.
Quality of cattle medium to good, trade slow for' exporters; good for
butchers', but prices easier for all classes butchers, but prices easier for all classes
of live stock. Exporters, $\$ 5.75$ to $\$ 6.10$,
and $\$ 6.25$ for one load. Export bulls, and $\$ 8.25$ to $\$ .40$; prime picked lots of butch-
ers ${ }^{\prime}$, $\$ 5.90$ to $\$ 6.10$. 1 loads ers, $\$ 5.90$ to $\$ 6.10$; loads of good, $\$ 5.50$
to $\$ 5.70$ medium, $\$ 5.15$ to $\$ 5.40 ;$ com-
mon, $\$ 4.90$ to $\$ 5.10$. mon, $\$ 4.90$ to $\$ 5.10 ;$ cows, $\$ 3$ to $\$ 5$;
milkers, $\$ 40$ to $\$ 70 ;$ calves, $\$ 3.50$ $\$ 8.50$. Sheep-Ewes, $\$ 4.25$ to ${ }^{84.75 ;}$
rams, $\$ 3.25$ to $\$ 3.75$; lambs, $\$ 6$ to $\$ 0.50$.
Hogs, Hogs, selects, fed and watered, $\$ 7.20$, and
$\$ 6.90$ to drovers, for hogs $f$. at country points.
REVIEW of Last week's markets The total receipts of live stock at the
City and Union Stock-yards last week

 The total receipts of live stock at the
two yards for the corresponding week of



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Shorthorns at auction. On Wednesday, March 1st, as advertised,
Adam Bone, Paris, Aion, in conjunction with will sell at auc-
tiontire farm Cows, heifers, and boung Cows, heifers, and young bulls, of good
millking stratns. Cattle will be sold at
important holstein sale.
On Thursday, March 9th, as advertised Davisville, Ont., on Yonge C. H. Shaver, Davisville, Ont., on Yonge street, north
of Toronto, will sell at auction his entire herd of registered Holstein cattle; also a number of Clydesdale, Carrlage and Road-
ster mares, yllies and geldings. The Holster mares, fillies and geldings. The Hol-
stefns are
richly-bred, and from deepmilking strains.

Smith \& Richardson, Columbus, Ont sport the sale of the Clydesdale atallio Dunure Shapely (1mp.) [95971 (14658),
ire Baron o ${ }^{\circ}$ Buchlyvie, to Milton Bube, ire Baron o Buchiyvie, to Milton Bube,
Owen Sound, at a long price; and also
he sale of the stallion Feacination the sale of the stallion. Fascination
[10244], first in class and champlon Canadian-bred, at Guelph and Ottawa,
E. Robertson, Cardston, Alberta. mp. Black Ivory, by Everlasting

At Danville, Illinols, Feb. 10th, Geo
M. McCray sold at auction, 18 Shir M. McCray sold at auction, 18 Shire
mares, at an average of $\$ 820$, and stallions at an average of $\$ 854$, the highstallions at an average of $\$ 854$, the high-
est price for a mare being $\$ 1,225$, and
lor an stollion $\$ 1$, for a stallion $\$ 1,060$ The other, stal-
lions were young, and in moderate condl-
tion, and the second highest price reaion, and the second highest price
ized for one of these was $\$ 1,025$.

Robert Graham, of the Graham-Renfrex o., importers of Clydesdales and Hact divertise sends, too late for insertion in their advertisement this week, the following to
be added: "Our barns are sltuated adford Park, three miles northated onto. Take Yonge-street car. Addres correspondence, Bedford Park P. O.
nt. Send telegraph messages to. To-

A Shorthorn dispersion sale. As announced in the advertisement this issue, the entire Shorthorn herd of sold by auction, on Friday, March 10th The offering consists of thirty cows and heifers, many having calves at foot, t forward in call, while most of those wel ing calves have been bred again to the imported bull, Brilliant -Star $=00883=$ (9i1te30), included in the sale, with some
fitteen young bulls of serviceable age fitteen young bulls of serviceable ago.
See the advertisement for rallway service, See the advertisement for r
and send for the catalogue.

TRADE TOPICS
The Easy. Washer advertised in this
issue by the Easy Washer Co., Toronto, should appeal to housekeepers, especially
as a thirty-daya' trial to oferod. Their
boot booklet of laundry recipes and order tria
forms, may be had free for the asking.

## Gleaningss From Eminent Writers. A Daring Deed.

From "Lite on the Mississippi," by Mark
"'Next morning I felt pretty rusty
and low-spirited. ing along, taking a good many
chances, for we were anxions to 'get chances, for we were anxions to 'get
out of the river' (as getting out to Cairo was called) before night
should overtake us. But Mr. Bixby's should overtake us. But Mr. Bixby's
partner, the other pilot, presently grounded the boat, and we lost so was plain that darkness would over take us a long way above the mouth. ly to certain of our visiting pilots, whose boats would have to wait for might be. It sobered the long that talk a good deal. Coming up-stream pilots did not mind low water or any kind of darkness; nothing stopped
them but fog. But down-stream nearly helpless,. with a stiff current pushing behind her; so it was not night in low water.
hope, however : if we could get through the intricate and dangerous could venture the rest, for we would have plainer sailing and better water. But it would be insanity to attempt
Hat Island at night. So there a deal of looking at watches all the ciphering upon the speed we were
making ; Hat Island was the making ; Hat Island was the eternal
subject ; sometimes hope was high and sometimes we were delayed in a sagain. For hours all hands lay excitement; it was even communicated to me, and I got to feeling so solicitous about Hat Island, and
under such an awful pressure sponsibility, that I wished I might have five minutes on shore to draw a good, full, relieving breath, and
start all over again. We were stand ing no regular watches. Each of our pilots ran such portions of the river
as he had run when coming up stream, because of his greater famil
iarity the pilot-house constantly. took the wheel and Mr. W- Mr. stepixpy every and was restless, silent and uneasy At last somebody said, with a
doomful sigh:
''Well, yonder's Hat Island-and we can't make it.' "All the watches closed with a snap, everybody sighed and muttere
something about its being too bad-oh, if we could only have got here half an hour sooner!' and
the place was thick with the atmos phere of disappointmient. Some started to go out, but loitered, hear-
ing no bell-tap to land. The sun dipped behind the horizon, the boat from one guest to another; and one
who had his hand on the doorknob and had turned it, waited, then let the knob turn back again We bore steadily down the bend. More
looks were exchanged, and nods of surprised admiration-but no words hind Mr. Bixby, as the sky darkened and one or two dim stars came out became oppressive. Mr. Bixby pulled
the cord, and two deep, mellow note
from the big bell floated off on th night. Then a pause, and one more note was struck. The watchman's "' 'Labboard lead, there! Stabboard "The cries of the leadsmen began
to rise out of the distance, and wer to rise out of the distanco, and were
gruffly repeated by the word passers on the hurricane deck
$\qquad$ twain Half twa

"Mr. Bixby"Mr. Bixby pulled two bell-ropes, far below in the engine room, an our speed slackened. The steam be gan to whistle through the gauge went on-and it is a weird sound always, in the night. Every pilot in the lot was watching now, with
fixed eyes, and talking under his breath. Nobody was calm and hasy
but vMr. Bixby. He would put his wheel down and stand on a spoke and as the steamer swung into her
(to me) utterly invisible marks-for we seemed to be in the midst of
wide and gloomy sea-he would mee and fasten her there. Out of the caught a coherent sentence now and then-such as- 'There; she's over the first reef ${ }^{\text {all }}$ "After a pause another subdued voice- 'Her stern's coming down just
exactly right, by George "' "'Now she's in the marks ; over
she goes '. she goes!'

## tifull the engines were stoped

 together, and we drifted with thecurrent. Not that I could boat drift, for I could not, the stars
being all gone by this time. drifting was the dismalest work; it held one's heart still. Presently 1
discovered a blacker gloom than that discovered a blacker gloom than that
which surrounded us. It was the head of the island. We were closing right down upon it. We entered its
deeper shadow, and so immine deeper shadow, and so imminent
seemed the peril that I was likely to suffocate ; and I had the strongest impulse to do something, anything, o save the vessel. But still Mr.
Bixby stood by his wheel, silent tent as a cat, and all the pilots
stood shoulder to shoulder at his "' 'She'll not make it!' somebody "The water grew shoaler and
shoaler, by the leadsmen's cries, till ${ }^{\text {it }}$ 'Fas down to- 'ight-and-a-half ! feet !
Seven-and- - E-i-g-h-t feet ! " Mr. Bixby said warningly through
his speaking tube to the encineer '/ 'Stand by, now!'
/. 'Aye engineer-

## ./ Aye-aye, sir !' Six-and-and-a-half !

Mr. We touched bottom! Instantly Mr. Bixby set a lot of bells ringing her have it-every ounce you've got!' down ! S his partner, 'Put her hard The boat rasped and ground her way
through the sand, hung upon the apex of disaster a single tremendous
instant, and then over she went And such a shout as went up went at Mr.
Bixby's back never loosened the roof
"'There was no more trouble after night; and it was some little time night; and it was some little time,
too, before his exploit ceased to be "alked about by river men precision required in laying marvellous steamer in her marks in that murky waste of water, one should know tricate way through shags and blind reefs, and then shave the head of the
island so closely as to brush the overhanging foliage with her stern, but at one place she must pass almost within arm's reach of a sunken
and invisible wreck that would snatch the hull timbers from under her if she should strike it, and deworth of steamboat and cargo in five minutes, and maybe a hundred and fifty buman lives into the bargain. "The last remark I heard that by one of our guests. '"' 'By the Shadow of Death, but

Mark
First Account of H is From John Cumden Hatten's biography At length the time came for Mark's
return (from the to San Francisco. He had spent several months in the islands in "luxurious vagrancy," to use his own expsession; and his task as a corhad been accomplished. The voyage back occupied nearly five weeks, and
when he at length reached 'Frisco the future before him seemed just about as blank and as uncertain as it was in those old mining days. He out means and withonded " withment'"; but it was not long before an idea occurred to him: he would try
a lecture. He would describe what he had seen in various places, and he would scatter a few jokes through well. Having written out the lecbut, of course, like true advisers; who wish to be on the safe side, they unanimously shook their heads. sure nobody would go to hear him. and then he had never spoken in public, and for that reason was cound to come to grief. This Job's late, and nearly knocked the whole scheme on the head. However, a
friendly editor was Iriendly editor was at hand, one of
those joyous souls with those joyous souls with a big spirit.
He slapped the would-be lecturer on the back, and told him to " go
ahead." To give Twain's own ac "'Take the largest house in the town,' said the editor, 'and charge
a dollar a ticket. "The audacity of the proposition was charming; it seemed fraught ever. The proprietor of the several theatres endorsed the advice, and said I might have his handsome new
opera house at half price-fifty dol-
lars. In sheer desperce it-on credit, for sufficient reasons.
In three days I did a hundred In three days I did a hundred and
fifty dollars' worth of printing and
advertising advertising, and was the most dis-
tressed and frightened creatur the Pacific Coast. I could not sheep
-who could, under -who could, under such circum-
stances ? For other people there
was facetiousness in the stances? For other people there
was facetiousness in the last line of
my posters, hut
plaintive, with a pang when I
DOORS OPEN AT 7童; THE ROUBLE WILL BEGIN AT 8 . since. Showmen have borrowed it
frequently. I have even seen it irequently. I have even seen it at
pended to a newspaper advertisement rended to a newspaper advertisement what time next term would begin. As those three days of suspense dragged by, I grew more and more tickets among my personal hundred but I feared they might not come My lecture, which had seemed 'humorous' to me at first, grew steadily vestige of fun seemed left; and grieved that I could not bring a co fin on the stage and turn the thing stricken at last, that I was so pani old friends, giants in stature, cordial
by nature, and stormy-voiced, said:
ure. 'This thing is going to be a fail ure; the jokes in it are so dim that
nobody will ever see them. like to have you sit in the parquette, and They said they would. Then I went to the wife of a popular citizan,
and said that if she was willing to do me a very great kindness, I would sit prominently in the left-hand stage-box, where the whole hous could see them. I explained that I
should need help, toward heer and smile, and would tura when I had been delivered of an ob 'scure joke, - 'and then,' I added spond !' I met a man I never had seen be fore. He had been drinking, and
was beaming with smiles and good nature. He said: know ma name's but that doesn't matter. I haven't a cent, but if you knew. give me a ticket. Come now, what do ". 'Iou say?" your laugh hung on a hair trigger ?-that is, is it critical, or "My drawling easy ? of speec so affected him that he laughed a specimen or two that struck me as
being about the article I wanted and I gave him a ticket, and ap pointed him to sit in the second cirfor that division of the responsible gave him minute instructions about how to detect indistinct jokes, and then went away and left him chuck-
ing placidly over the novelty of the II ate nothing on the last of the three eventiful days-I only suffered. day the day the box-office would be opened crept down to the theatre at four in the afternoon to see if any salles had been made. The ticket-seller
was gone, the box-office was locked up. I had to swallow suddenly, or my heart would have got out. ${ }^{\circ}$ No sales,' I said to myself, 'I might
have known it.' cide, pretended illness, flight. thought of these things in earnest, But, was very miserable and scared. away, and prepare to meet my fate. -I wanted to face the horror, and end it-the feeling of many a man down back hang, no doubt. I wen down back streets at six o'clock and
-

## FEbredary 23, 191

THE FARMER'S ADVOCATE.

I stumbled my way in the dark among the ranks or canvas scenery,
and stood on the stage. The house
was gloomy and silent, and its empt iness depressing. Ine wend. ints
the dark among the scenest again and for an hour and a half gave my-
self up to the horrors, wholly unconself up to the horrors, wholly uncon-
scious of everything else. "Then I heard a murmur; it rose crash, mingled with cheers. It made my hair rise, it was so close to me,
and so loud.
There was a pause and so loud. There was a pause,
and then another ; presently came a third, and before 'I well knew what I was about, I was in the middle of bewildered by the fierce glare of the
lights, and quaking in every limb
with a terror that seemed like to lights, and quaking in every limb
take a terror that seemed like to
take mife away. The house was full, The tumult in my heart and
brain and legs continued a full minute brain and legs continued a full minute
before I could bain any commate
over myself. Then I recognized the over myself. Then I recognized the
charity
faces before the friendliness in the the charry before me, and littless by lithe
faces
my fright melted away, and I began to talk. Within three or four min-
utes I. was comfortable utes 1 was comfortable, and even
content. My three chier allies, with
three auxiliaries, were on hand, in the parquette, all sitting togather,
all armed with bludgeons ready to make an onslaught upon
the feeblest joke that might show its head. And whenever a joke did fall
their bludgens faces seemed split from ear to ther Sawyer, whose hearty countenance
was seen looming redly in the center of the second circle, took it up, and
the house was carried handsomely the house was carried handsomely.
Inferior jokes never fared so royally
befor before.
<"Presently I I delivered a bit of seri-
ous matter with impressive unction
 gratified me more than any applause;
and as I dropped the last word of catch Mrs. $\xrightarrow{\text { I happened to turn and }}$ s intent and wait ing eye m my conversation with her
tashed upon me, and in spite of all
$I$ for the signa, s, and prome pron thok it
ered a mellow laugh that touchel of the whole audience ; and the explo-
sion that followed of the whole evening. The triumph that howest man, Sawyer, would
choke himself; and as for the budeoons, they performed like pile-driv-
ers.
But my poor little morsel pathos was ruined. It wos taken and the prize one of the entertain-
ment, and I wisely let it go at that.
cAt morning; my appetstite returned; in thad
abundance of money. All's well that abundance of money. All's well that

## Hope's Quiet Hour

Forget and Remember Look not every man on his own things,
but very man also on the things of
othery

 yet covers so much ground. It we could
all live that littlopprayer, as well as say
It, how radiant our lives would be Then selfshness would have no chance to
hold the reins, but
sove
sould Let us look at life trom this point
view, We can't have fust what we want. Instead of fretting or grumbling, we cai
Iorget our own wants and remember that
We have a chance to brighten
 man came with a parcel, and he was
jolly that I felt tinspirad with a desire radiate sunshine, too Yoed Yesterday it was
the man who sells vegetables whose wa


Last week, a lady who was making an
address to some members of "The Girls Friendly Society" described some woman
whom she had that day noticed in a To ronto street car. Sar had hedd up a
quarter to the conductor, and snapped out, "Tickets"" When these were pro-
vited. she sald "Transferl" with an utter
absence of ordinary politeness, and cerr absence of ordinary politeness, and ecr
tainly none on ot othe beauty of womanly
courtesy. It was a little thing, but littlo courtesy. It was a little thing, but little
things often revenl years oo bad habits,
even to a casual looker-on. Was she too even to a casual looker-or. Was she too
poor to bo able to anford apleasi" or or
porthank you"? She evidently did not remember that the conductor was not a
part of the machinery of the car, but was

 seem.
One day a woman who was serving me
a
a shon in a shop, sald-as another customer went
out- "That lady does not know tit hurts are 'dear.' I can't help it it food has gone up in price, but to have people nag-
ging all day long makes me feel bruised and sore and miserable." How otten we
remember only our own point of view and forget that it hurts anyone to be
constantly found fault with. We all want to be of use to our world-perhaps wish
hopelessly that we hat inhuence or
weolth wealth so that we might have a chance
to do blg things-and this chance of helping many people lies always close beside
us. Sometimes a little act of eager ser-
 approval that it is held up for all men
to cooy for thousands of years., It tis
about four thousand years since a man
 Was sitting in his tent door in the tea
of an Eastern noontime. Seeing thre
otrangers and strangers approach, he ran out to salute
them and offer them the best hospitality
 guests and stood by them while they wero ating. He was not forgetful to enter-
tain strangers, and thereby he had the
 occasion, God litted the veil which usual ly hides His face-but He only hitted it
after Abraham to remember and supply tho needs o Chose who appeared to have no claim on
him. We may be very sure that many others since that memorable day have had
the opportunity
of offering kindness to the Lord of Hosts. Let us eagerly maka Che most of these glorious opportunities, without fearing to suffer hoss by forget-
ting to look sharply alter the interests those who joyously remember Him, and He delights in giving His children pleas
ant surprises.

"Not by appointment do we meet delight And joy, they heed not our mexpectancy;
But round some corner in the stroeets of They on a life, sudden clasp us with a smile." Here is a chance for getting pleasure by
giving it. "A Faithul Reader") asked
 hand magazines or other literaturue, and the following readers of "Theo Farmer,'s
Advocate" have expressed their desire to Advocate" have expressed their desire to
receive any such books or papers : 1. Mrs. Hardy Miller, Oshweken, ont. 2. Mrs. Bettington, Pinehurst, East
Bolton, Que. 3. Mrs. David McLellan, Noel Shore, Another reader (see letter given below)
wishes to have any useful literature distribution.
Here is a description of $T w o$ Days. In the frist, Selt was remembered; In the the
second, Self was forgoten.
which was

## A perfect day ! I tried to hold it

To make each hour my own, and sip its
No one should come between me and $m$,

## joy My will should rule my actions for one

Ah, yes I It slipped away, its secret kept
And hid fromim me behind the sunseet cloude
Another da
I watched it ${ }^{\text {mine.' }}$If I might spaak a word of cheer, or giveWere aching. Day of sweet revealing


May God help us, by daily practice in
small, unnoticed ways, to forget ourselves and remember others. $\underset{\text { pORA }}{\text { parncamb. }}$

Editor Home Magazine Dopt.
Farmer's Advocate," Londo
 19 th inst., I noticed "Faithful Reader" wished addresses of persons ""Who Roador" be glad of magazines and s.econd-hand
literature."
In the community I live are $\begin{aligned} & \text { In the community in which } \\ & \text { such reating om would be homes to which }\end{aligned}$ would be pleased to t : veive anything either rellfitious or secular, oro disintribution,
among these people.
Trusting str

 | iteratural Reader,"" or anyone having |
| :--- | :--- | Muskoka District JACOB MATTHAS,

The Ingle Nook.

A friend of mine has a child who ta heard her trying to toredin the lites I litle thing
out of the ", pault." "No your spoon in your right hand ." "ren, put your spoon in your right hand,", "Helon,

the right hand is for the knite." "Why | Helen, you simply must not try to whry, |
| :--- |
| with your left hand." |
| This | a dozen times a day, until I am sure poor funking right hand, which never seams to on the spot to do its duty

Ot course, I had always thought this
all right.
All civilization had declared for the right hand, and so the right hand
must it be-so meakly, tiko ehen
follow tradition I
One day, hower, a pamphlet written by Dr. Geo. M. Gould, of Ithaca, Now
York, cme tint ind my preconceived notions on the apubect. To be brief, the writer argued that any
mother who tries to make a left-handed child use
wrong. nical, written, as it it was, chiefly for doco tors, and so rather hard for ordinary
mortals to underatand hat mortals to understand, but part of it wae
clear enough, viz, that the bro and haugh, viz: that the brain, eyees
and hand are all, by means of the neryous system, in some mysterious way connected, and that it this connection if
upset,
irreparablo "Visual function, righteyedness," ensue. Gould, "is the cause of righthandedness, edness." And again, 一"Mothers and teachers go to the extreme, and brutally writing, and to transplant the intellectual centers for speech, writing, etc., from their natural location with the left-haindthe left side.'
All this, we may take to mean that the intellectual centers of our mysteriounly some portion of the a nerve connection between that portion and the eye and hand on the oopposito with that connection, wa do wo interterll injuring not only the eyesight, but caueing suffering of many kinds.
Dr. Gould is very insistent that the slightest defect in vision be corrected at nce, and by an expert in eye treatment.
Astigmatism, he says, is likely to cause spinal curvature, which, in turn, may cause neurasthenia or nervous debility,
with its attendant ills, and a large majority of diseases not usually attributed
to eyestrain. Headache is a very common result of neglect of the eyes; evem indigestion is at times due
Spectacles exactly suited to his eyes,
hould be given at once it the astigmatic child, and he should, moreover, be taught to stand and sit th straight, and capable for the work that must do. When writing, he should be teught to keep the paper 12 or 14 inchee
from the eye, and directly oppooite the
right arm and shoulder (if right-handed) right arm and shoulder (if right-handed),
the body itself being erect and squarely Should the slightest curvature of the spine be discovered, a skillful physician allow time for a series of complicatlone, which cannot easily be grappled with. It is a lact, not the less sad because so blind concerning the physical wellare of their children. A child suffers from eore but little colds; he is let run about with perhapa worse, has been induced. An-
other has adenolds in hit noticed that his breathing is difficult, but nothing is done, and presentry lung trouble or debility develops through persistont
mouth-breathing. As has been seen abote mouth-breathing. As has been seen above,
defective vision is paront to a multituda to a multitudo

It is to be hoped that this reference to
Dr. Gould's pamphlet, briee though it is,
may suffice to awake a sense of responst-
bllity. It is a fearful thing to send child forth handicapped into the world
In this, as in many another thing, stitch in time not only
may avert a calamity.

To Make Irish Crochet (Written for an enquirer, by Miss Irwin The popularity of Irish crochet lace is
over increasing, and it well may, for it is not only very beautiful, but is very dur-
able as well. One sees it in the stores of large cities, berthas, coat collars and
cuff sets, stock collars, jabots, and edging linem doilies and tea cloths, at a price prohlbitive to all but the wealthy. Any Woman who is familiar with ordinary
crochet, may, by starting with the simcrochet, may, by starting with the sim-
ples patterns, soon be able to make many handsome articles. Irish crochet consists
of diferently-shat of diferently-shaped "motifs,"' made over a heavy padding cord foundation, joined
together with the lacy picot-stitch background, both motifs and background being made with the crochet hook. cambric pattern is required for the more
elaborate pieces, such as a collar-and-cuff elaborate pieces, such as a collar-and-cuff
set. In making this, the motits and rings of different sizes are basted firmly tace downwards, and the intervening
spaces filled in with the typical networ spaces filled in with the typical network
of picot loops. A straightening line of picot loops. A straightening line is
made around the whole piece, and the pretty scalloped edge put on last. The
only materials required are a ball of soft only materials required are a ball of soft
padding cord, crochet cotton, and a padding cord, crochet cotton, and a
crochet hook, all of which can be purcrochet hook, all of which can be pur-
chased in any fancy-goods store. The
D. M. C. crochet cotton costs a little D. M. C. crochet cotton costs a little
more than the ordinary, but always is ing of a set of three different-sized needles, easily adjusted to the cork handle supplied, is now considered the best by all
workers who use it. Workers who use it. A fine needle, and
a tight, frm stitch, are necessary to insure good work.
The simple design illustrated is a jubo with a rose motif. No padding cord is Fig. 1. Use No. 50 . Fig. 1. Use No. 50 cotton, and begir
as follows : Wind the working thread around a com
mon match twenty times, slip of an mon match twenty times, slip of an
work 16 s.c. in the ring, chain 6 , miss 1 1 d.c. in the next stitch, "ch. 8, miss
1 d.c. in the next stitch, repeat from around ring, joining the last three chain open spaces in all.
open spaces in all.
D.c. means double crochet, gle crochet, t.r. means treble crochet. In
working the treble crochet, the thread is Working the treble crochet, the thread is
put around the needle twice; the double crochet, once; and the single crochet, not at all, before inserting needle in work.
Second row.-Under the first three chain work 1 s.c., 1 d.c., 3 tr., 1 d.c., 1 日.c.;
repeat around conter. the next d.c. of first row, taken between the petals at back of work; repeat from Fourth row.- 1 s.c.,
2 d.c.., 5 tr.. ${ }^{2}{ }^{2}$
c., 1 s.c., all under first four chain loop; repeat around.
frrst s.c. of third row, between the petals next e.c.); repeat around rose. in top of Sixth row. -1 s.c., 2 d.c.. 7 tr., 2 d.c.,
s.c., all in first loop; repeat around rose.
Seventh row.-Chain 6, 1 s.c. in s.c. of
arth row at back of work; repeat around $\stackrel{r}{\text { rose. }}$ c., 1 s.c., under first 6 chain loop; repeat Ninth row- -1 slipstitch in the first five stitches of petal. *Chain 6, catch back
in the fifth stitch from hook (to form a picot). Chain 7 , catch back in fifth next stitch of petal, chain 6, picot, chain pient, noxt repeat from the fifth stitch of noxt petal; repeat from around rose,
making 16 loops in all.
ald Tenth row.-Slipstitch up to two chain bet ween 2 picots, of 1 st loop of last row,
ech. 6, picot, ch. 7, picot, ch. 2,1 s.c. *ch. 6, plcot, ch. 7, picot, ch. 2, i s.c.
between two picots of next loop of last row; repeat from around.
Fileventh row.-Slipstitch up to 2 ch . between picots on first loop. "ch. 6, picot, ch. 8, picot, ch. The round part being finished to make
the strip continue as in last row for
three loops, turning and working back
wards and forwards for ten rows or untit as long as desired. Start at the upper ing line:- 3 ch., d.c. over ch. each
idenof picot, increasing to 4 ch . when going lasses. around the rounded part, so that it will heaping Jelly Cake.-1 cup sugar, 2 not be tight, around the whole piece to heaping teaspoons baking powder, 3 tea
where you started. The edge is made as water, the yolks of 3 eggs, cup Where you started. The edge is made as flour. Stir, well together, then add the
follows: Work * *, 12 s.c. over the whites of the engs heaten stiff and bake straightening line, 5 ch. fasten back
4 th s.c. from needto 4th s.c. from needle, 5 ch. in 8th s.c.,
over last loop 5 ch . worls 3 s. c. picot over
(made by fastening back 3 ch. in top of last s.c.) 5 s.c., 3 s.c. in next loop 5 ch.
fasten in 3rd s.c. of last loop 3 s.c. over top loop, picot, 3 s. c., picot, 3 s.c., 2 s.c. over Make two smaller roses of three
 The following is Prof. Detlef's recipe for
doughnuts. They are excellent. Five
rounded tablespoons sugar beaten with $1 \frac{1}{2}$ rounded tablespoons butter. Add eggs, a little flavoring and salt. Mix
well together, and stir in 1 cup sweet milk, then add $2 \frac{1}{2}$ pints siitted flour
through which 2 level teaspoonfuls bak-


Rose Motif.
rows of six potals each, same as large one, and sew on upright strip of jabot.
Mount on a shaped piece of fine handker Mount on a shaped piece of fine handker-
chief linen, with crocheted chief linen, with crocheted edge, as shown
in illustration. A turn-over collar match may easily be made by crotcheting a strip of picot the required length and width, fastening small roses at intervals,
and sewing to a linen band. and sewing to a linen band. Anyone is
well repaid for the time spent on making a collar and jabot such as this, for, be sides being effective, it launders beautifully, which is the most important requi-
site in neckwear.


Dear Dame Durden, - My husband has taken your paper for some years, and I have often Yound the Home Department give me a pattern for a sofa-pillow top worked on huckaback toweling, or any other kind?


Jabot of Irish Crochet. Also a recit ib dita cake, and chocolate foughne. I well be
pleased at any time to give any assist. ance to any of the chattorers. I aru sending you a fow tested recipes. 1. Spanish Bun, -1 cups brown sugar,
i cup butter, 3 eggs. 1 cup milk, 2 cups
four, 3 teaspoons baking powder, 1 table spoon cinnamon, 1 teaspoon ginger, is
nutmeg. Plain icing. whites of 2 eggs, flavoring. Place sugar
and water in a saucepan and boil until the syrup will thread from the end of a
spoon; have the whites beaten stiff, and add the syrup gradually, beating all the
time Add flavoring.
Chocolate Fudge.-Four cups granulated sugar, 1 cup rich milk, $\ddagger$ tb branulated
cake Baker's chocolate, grated. $i$ Put all over a hot fire until it begins to thicken, stirring constantly. Place the pan in
another of hot water, and cook until it easily formed intor, a ball when dropped
into cold water: must not into cold water; must not be hard or
brittle, however. brittle, however. Now remove from the
fre and stir until the mass begins to
set. Pour in a pan to the depth ot hale an inch and mark of in in squares. If you
Iike, you may add a few drops. like, you may add a few drops of vanilla
when removed from the fre. Many thanks for the recipes you have sent. Can anyone supply a pattern for

Mount for Jabot
To Can Pineapple
Home Department of your reading the
would paper, and I would Like a recipe how to to can and I
apples raw, the proportion apples raw, the proportion of can pugar to
fruit, and the length of time it should fruit, and the length of time it should
stand before being put in sealers Lambton Co., Ont. A. J. S.
$\qquad$
ing powder has been thoroughly sifted.
Roll out, cut into strips, then make into
twists, and fry in deep fat which is
smoking hot. Devil Cake.-One cup sugar, 1 table-
spoon butter, 1 cup sweet milk, 1 teaspoon butter, 1 cup sweet milk, 1 tea-
spoon soda in 1 tablespoon hot water, 2
souares chocolate squares chocolate, ${ }^{2}$ eggs. Cream the
butter and sugar together, add $\ddagger$ cup butter and sugar together, add a cup
milk, then add dissolved soda. Boil to-
gether the chocolate, the remaining hallgether the chocolate, the remaining half-
cup of milk and the egg yolks, until
thick, and stir into the first mixture while hot, and sttr into the frst miture while
hots then aur. Bake in
two layers. The frosting is made as two layers. The frosting is made as
follows: One cup sugar,
whites cup water,
and pineapple may be sealed way: Crush the berries or shred this
pineapple very fine. Now the pineapple very fine. Now mix with pound
for pound of sugar, let stand sugar is thoroughly dissolved, and put in sealers, which have been thoroughly sterilized. Pack the sealers full of the fruit pressing it down and leaving no air
space at the space at the top. Perhaps someone who
has had personal experience will write Making Soap from Goose Oil Dear Dame Durden,-Would like very
much if you would give a recipe for making soap, either hard or soft, from goose Ontario Co., Ont. AN."

## Our Serap Bag

 A Friend says that she finds dome fagteners excellent to use instead of hooks or A handy wrinkle for "keeping up" the
sewed-on collars of waists, is follows: Take etwo bits of tape, oue fo at each end to form little pockets, being
sure that the width completed, is that of the collape, when tack the tape in place on the collar and
slip in the celluloid supports necessary to stitch in the latter, is not pockets keep them in place. When it it time to launder the waist, all that requires to be done is to pull out the sup-
ports, leaving the tape in place

Did you ever know anyone who kept on the proverbial until they were black as seeming to dream that they should be
laundered just es aser ing apparel? If so, contrive to of weartem under her eye some day. Corsets Wet them ery easily laundered in this way: Leave them rolled up for hall with soap. then put them on the wash an hour, scrub them thoroughly with a small, stifr
scrubbing-brush. Rinse well, and dry An illustration in a recent number of fountry Life, gives a rather novel idea
for living-room with a high wall, which may commend itself to some of our read-
ers who are on the lookout for new
idea ideas. The walls were papered in dull
pumpkin -colored plain paper, the part being taken up by a wainscot of brown burlap, topped by a narrow brown a oulding. At the top of the paper was
a stencilled frieze or border, and at distance of about five feet from the at a a book shelf was placed, running quite as much as was visible of it-one side as much as was visible of it-one side
and one end. About a foot above this
And book shelp a second shelf was placed,
upon which rested upon which rested pictures, jars, etc. The
whole effect was to lower the ungainly hetght of the wall, and give coziness,
and, althouph a shelf runnig round might not always be advisable, I
should think the idea should think the idea one which might
be carried out in all sorts where it might be advisable to break up A "beauty writer" in Pictorial Review,
gives the following suggestions for health, Which are, therefore, rules for beauty,
also. If the chest is narrow, broaden it
hy persistont chese a good preventive also of taking cold provided the exercises are taken in the
open air. Kepp the skin in thon workopen air. Keep the skin in good work-
inst order by the daily bath, and exercise
care in regard to tho rich food, and neither over nor under-
eating. Drink a great deal of water if you wish to have a good complexion; bo-
gin with two or three glasses hall gin with two or three glasses half an
hour before breakfast, take the same just
before retiring and before retiring, and, an occasional glass
between meals. If the skin has tendbetween meals. If the skin has a tend-
ency to be flabby, bathe the face once day in cold water in which one tablespoon rock salt has been dissolved; and
if the liver is sluggish if the liver is sluggish in its action, take
one tablespoonful of olive oil three tike a day, before each meal, and eat plenty of figs and prunes. If the hair is thin
and ill-fed mat eatent and ill-fed, massage the scalp with vase-
line every night for a month, shampooing
each week; afterwards youl



ferbiluary 23, 1911
tonic. Keep the teeth scrupulously clean,
and occasionanly scrub them wwith peroxide to make them white. If the gums
have a tendency to shrink rut them with
listerine every day. For bad breath, take charcoal tablets. Brittle fingernails wint becomd
cream might and morning.
The Express to Sleep-town. 1 know a littlo traveller
Who every single night,
Starts on ang iong, long journey,
That lasts till broad daylight.
Her ticket reads "Slcep-town Express," Stamped "Papa's good-night kiss," And when she pays him with a hug hag
He says, "I thank you, miss,",

0
Jut mount it by tha stairs
Youreamylano Yake haste, because the train should start,
Soon as you've said your prayers. Remember, to, on this express,

So when the sandman enghor
The passenger for sliepy-tow
The passenger ror sleepy-town
Must surely hold her tongue.
Be ready, then, to jump aboar
Kiss mother at the gate,
It's shter halt-past seven an
The train is due at eight.

## News of the Week.

Miss Sylvia Pankhurst is lecturing
in Canada.
Relations between Russia and Chin are strained, owing to China's al
deged violation of the St. Petersburg
Treaty Treaty of 1881

The famine area in China, in whic thousands have died during the past
few weeks, consists of a territory few weks, consists of a territory
300 miles long and 150 broad.

It was stated last, week by Dr
Johnston, of Montreal, that has eleven per cent. more of its
municipalities and corporations under local option ta

A large deputation from Northern vincial Government for arillo connect Charlton, Elk Lake and Gow-

Russia is planning to form direct
communication Sean and the Baltic we the Black deepening the waterways, particularly the Duna and Dnieper

An Italian inventor, Cerebotani,
has reduced the apparatus necessary has reduced the apparatus necessary
to receive wire messages to a size so
small that it
smat an small tate it may be carried in a
small case the size of those used for
opera glasses.

Petitions to the Provincial Govern-
ment of ment of Ontario, asking for the re
moval of the threeefifths clause from the local-option lawe-w were last Thurs-
day turned suminarily down by the day turned sumanarily down by the
Premier, Sir James Whitney.

A conspiracy among cotton specu-
lators, to infect areas of cotton fields in Georgia and the Carolinas with boll weevil, and so raise prices by
making cotton scarce, is alleged to
have

$$
\ldots *
$$

Dr. David Boyle, Provincial Archcoundation of the Archeological the selum, Toronto, one of the finest on
the continent, died in that city last veek, at the age of seventy. He was Man in Ontario," " The History of Scarhoro," and many archæoological
reports and articles.
THE FARMER'S ADVOCATE

## The Beaver Circle

 and

## Results of Competition.

 ing competition the prizes went as
lows :
as
school Concert",-Olive cullen. "A Anowshoeing Trip"-Alvaretta Kil${ }^{\text {Nough. }}$. Skating Trip" ${ }^{\text {" }}$ Tack Long. peoplo have "1-William Hodgson.
pn extra prize was given to Mervin Osburn, who wrote a very good compo-
sition indeed, although but nfne years of age. Honor Roll :-Evelyn Morgan, Amicus, Leonard Henderson, Jessie swanton, Vera Lang, Hannah Long, Dora Cords, Laura
Carroll, Mariorie Fraser, Annie Price, Viola Devitt, Percy Archer, Winna Har-
per, Country Laddie, Leonard Henderper, Country Liaddie, Leonard, Hender-
son, Abbie, Lizzie Fitzsimmons, Harold
wi, Guest, Winitred Colvell, Lorene Free
horne, Elsie Campbell, Gordon Kennedy,
 hrown, Emily Tucker, Clare Harding, Stella, Spence, Leonard Black.
if space can be found If space can be found a few of the
honor-rill compositions will be published
nat some

## A Snowshoeing Trip.

uary that we had planned shooing trip. The sun shone brightly,
making the snow sparkle tilke
mot thoumaking the snow sparkle like a thou-
sand diamonds, and the sparrows were twittering gaily After dinner my friends who were to
accompany me on the trip arrived, all accompany me on the trip arrived, all
bright and ready for fun.
They said that we could not have had a nicer day
for our trip. We. took pome sandwiches for our trip. We took some sandwiches
and cakes in a basket for our lunch, as we thought we would become hungry be-
fore our tramp was concluded. Our party consisted of four giris,
counting myself; each girr had a pair of strong snowshoes fastenod to her feet. one of the girls, looking back at our
tracks, said, laubhing, "oh girls, look at our funny tracks !" Truly they were We were now going through open fields,
and we we tramped along we noticed that, perched on weeds, that were stick-
ing out of the snow, were small brown ards with little red feathers, edged with
$a$ green shading, on their heads; the wing teathers
and the tail tipped with white,
and two whole white Yeathers in atd found that theso thiny
thinter triend were busy pickkng out the
wint winter friends were busy picking out the
seeds from the few remaining weeds that seeds from the few remaining weeds that
showed through the snow. We aw quite a number of these shy
little things on our way. One of the girls voluntered to name them, "Winter
Canary," because they chirped like a canary, and when made to fy, flew zilg-
zagsing through the air, the same as a canary, and you see they stay here all
winter, hence their name. old brush pile, and saw by the numerous tracks and tunnels that this was a rabbit's home. I directed one of the girls
to shake some of the brush, on the posite side, while the rest of us got ready to catch whatever showed itsollf
We were watching the tunnels for fear the prisoner would escape that way,
when one of the girls screamed, and following her glance wo saw a mall cot-
tontail seoding aned and tontail speeding away towards the tall,
dark. wooods that loomed win dark, woods that loomed up ahead of us.
We looked at each other for a in hall-shame I might say, for lieting this little animal get away from us, and then all joined in a hearty laugh. Sud-
denly we took it into denly we hoil crea our minds to fol
low the litte creature to the and see if there were any adventures tor us to come across.
It was a magnifcent woods, with its At one end ol the bush, pines, hemlocks
the that we were going
the black squirels
vere

 far ahead of ou we hearam somembewhere not
ing a noiso very like a blackbird.
went $a$ alittle
We went a litlle further and peeped around
a large pina-tree trunk, and saw sitting
 tat, black squirel. He was singing to
himself I expect, or else he was happy about something. or else he was happy spreand he rade, with his big bushy tail spread out behind him, and his sat, sleek
body, with his small black ears on his neck I Evidently he suspected girls snappen all of a sudaen one of the After being quiet for about five minutes we were near shaking, and then there Was a audden spring, and he alighted on
a half-dead pine tree limb till he came to what we thought was his den, because he went into it and
didn't ing of come out again. We were thinktures, when some of us more advenhungry, so the four of us sat down
a log, te up our still chattering like magpies, When our lunch was over we started to atarting to get quito dark, and for fear home. We ing the darkness, we hurried ess settled in for night. for mother had prepared a good meal Yor us, and we did justice to it. After
supper my brother hitched up the team
of horse girl to to her respeective home. Thus ended
our hand and our happy and interesting snowshooing
trip. ALARETM MAY KILLOGGB

> burn, ont.

## A Skating Trip

 seasons of the year, I think winter fe
the best, for then we can go out alkating and sioigh-riding. By the school the
is a littlo field, and it has overlown its banks, as
we have had a that We have had a thaw, and it is in Ano
condition for skating. On Friday, when we
at noon on the ice, werthought alating be hard to do without our dally pleasure, so wo agreed to gathbr together at
the school at 2 o'clock on the following arternoon.
key next morning I sharpened my hoc time appointed we all arrived at our
destination, bent on First wo thought wo woud her hockey match, so we liected our cap-
tains.
On each side tains. on each side there were sapen
boys, and the sides were as near equal started to Alt a quarter past two had the bggt of the game, but by a care less shot on their side wo got posesession
of the puck, and drove it right up to the gool, but the goalkeeper was too raced back to delond our own goal. Wo
got the puck again got the puck again, and gave it to a
forward, who gave it a shot, and befor the goalkeepor cull oto st it was in
the goal. Their side got a goal in on us, though we tried our beest to keep it up we were quits. renewed, and we played our bame. Was
were a lithle rounh termined to win. They, tried in vain to get a goal on us, but we were too quicl
lor them. We had or them. We had a scrimmage, and leg, but he still played. the puck the forwards raced ahead other side now put it in in the goal. The
worth, hut tor all they were out, thinking it was
our
wetter our own goal, now we were ahead them, than to score another goal and
leave our wn unprotectod.
was up we stond one to yelled ourselves harrse.
The rest of the time we spent gkating
 of the younger onesk to to skate who wome
just just learing. Flve o'clock came wery
soon to ua, and we mone soon to us, and we went home well veris
fied with our afternoon's fun . wad read fied with our afternoon's fun, and reads
for our supper.
JACK Tonco


One Month's Friee Trial
Syracuss 'EASY' Washar



Hereford Bulls

H. D. SMITH,
" Ingleside Farm," Hamilton, Ontario The subject of conversation between the last two sportsmen left up at night in
the smoking room after a hard day's shooting, was the wonderful scent of Mine is a marvel, Not long ago I went motoring, far from home. My
pointer, although chained up, worked himself out of his collar and found me two
hours afterward. What d'ye think ot that?"
"I think you ought to have a bath."
Buffalo

HERE IS A TALE WITH A MORAL

Little Edith Harris Cured of Dropsy by Dodd's Kidney Pills.

Two doctors sald she would die, but
to-day she is a healthy, happy girl.-Healthy Kidneys in children sirl.-Healthy Kidneys in chlldren
she guarantee of a happy, useful
Ilfe. McTaggart, Sask., Feb. 20.-(Special.)ney Disease, even in its worst form, and
ne that Dodd's Kidney Pills will cure it any form, has been abundantly proven in
the case of little Edith Harris, of this place.
In May, 1903, this little girl, then two years old, was so swollen with Dropsy
that
her waist measure was increased from 18 inches to 34 inches. Two docpills cured her, and to-day she is as merry and healthy a child as is to In a recent interview, her Edith is better than ever. return of dropsy since she was cured by
Dodd's Kidney Pills, over seven years ago. She goes to school, and is healthy.
I always keep Dodd's Kidney Pills in the house."'
There's a moral for parents in this tory. Many a child has grown up to a
fife of pain and suffering because its kidneys were neglected. A life of health
and usefulness is assured if the Kidneys and usefulness is assured ir the Kidneys
are kept in order with Dodd's Kidney Pills.

About Animals.


## nor hen iliked hicked



 Coaxed.
But take, tor example, our thorse







 person.
But take old Scot. She always had
swithet
 teed. You wero tiable to go graving
hack under the other cow any time vou



 or he would nearly kill them. He would
bite ther heols tuit the blood ran down
the foor


 We had a dog named Scotie. Ho was
Kind
He would not hurt the


 toward children. Ho put me in mindo of
a person who alwave sut one $\int_{\text {a person who always stood up tor their }}^{\text {ioved onest }}$ Hoping to


 moo bolong, it is difiroutt to proppare a
good concert. About one month belore Christmas,
our teanher told ua we might have
concent
 once
Alimost overy child secured a
a recita-








 sion verer dretery. Ne. cond hear thy

 board, so we did not neted a chairman.
There wera a lot of Lood recitations.
dialogues and drills.

## The Wise Farmer

Will always take the precaution of sub merging his seed grain in

## STANDARD FORMALDEHYDE

before sowing, as it has been proven conclusively that Formaldehyde, if of is the only way to destroy grain smut.

## Be a Wise Farmer

Use Formaldehyde and increase your yield per acre. Improve the quality of your grain, and command a better price.

## Ask for "STANDARD" Brand

THE STANDARD CHEMICAL COMPANY OF
TORONTO, LIMITED,
manning chambers,
TORONTO, CANADA

THE LAST WORD IN BIBLE INDEXES now ready, patent no. 405 th Tho King's Printers' Chromatic Cut (or Thumb) Index The Chromatic Cut (or Thumb) Bible may be had with the Chroof the Bible by the distinctive colors matic Index of the Index labels, Lhus :

Fo
For Bible Students, Sunday Schoo
Teachers, and all Bible Readers the Chromatic Index is a Readers quisition. None can affrord to be
wist
without it
The following King's Printers'
All the above are bound in the Best French Morocco, Yapp Edges, with保
retail at all booksellers.
Architects, Contractors, School Trustees

Do you want your schools, hotels, factories or public
RED CROSS" CLOSETS Made especially to fill the requirements where- no
sewerage is available sewerage is available. Catalogue C upon application, Red Cross Sanitary Appliance Co., Grimsty, Ont,

febilaty 23, 1911 THE FARMER'S ADVOCATE.


MAKE YOUR OWN TILE
 Farmers' Cement Tile Machine

 holds tile in perfect shape till set. NO PALLET.
TEN DAYS FREE TRIAL If Atter 10 days' trial it
does not meet with entire satisfaction, return at our ex-
Farmers' Cement Tile Machine Co. walkerville, ontario.

## NORTHWEST FARM LANDS

Half a milion acres of wild and impros.
cially selected in the most fertie districts.
Special excursion in the spring to see these lands.
Write now for particulars as to prices and location.

## STEWART \& MATHEWS CO., LIMITED

 few good dagents wanted. Galt, Ontario.Anything fram a BERRY PLAMT to a SHADE TREE is waiting your orier



$$
\begin{aligned}
& \text { THE story of Kate. } \\
& \text { To play this game, each player must } \\
& \text { have paper and pencil. A time is set, }
\end{aligned}
$$ have paper and pencil. A time is set,

say five minutes, and in that time each must try to write the most about Kate,
bringing in as many words as possible that end in ""cate," as locate, prevari
cate, placate, advocate, etc. This is good brainy
and boys. for the older girls
Afterwards all the stories are read aloud by one of the players and
judged. judgea.
a blindfold race.
Put straight rows of candies or but-
tons on the floor, at intervals of about tons on the foor, at intervals of about
a yard. Line the racers at one end of
the room and let theme take a look, then blindfold them and start them off. The
game is to see who will have the most candies or buttons within the given most
cane. For a change, this game may be played
without blindfolding, the racers being compelled to hop instead. If anyone
puts the other foot down he must start again from the beginning.
TWO GAMES FROM YOUTH'S COM-
Here are two simple forms of enter-
ainment, new to many personsture of a
country. The first is in the nature
"stunt," and requires no spectal prepa-
An empty bottle is placed upon a small
op of it, in such a way that the least
the party are lined up some distance
away, and with right arms extended
horizontally, walk rapidly by the table


$\qquad$
$\qquad$

 contents, and to write on his card the
result of his investigations. No one is
allowed to speak tion.
The

AThick Neck

GOITRE GURE CURE

- had been a winner. Letters ot ryati-
 Interral and aeks, end my health is betternal
expresa paid. sUPERFLUOUs Halk, Moles, Ete:
permanety removed by our reliable reat
ment-Electroly
 Miscott Dermatologleal Imstitinte,
61 College $8 t$, Toronth. Estab. 1892


Strawberry Plants

 Downham's Str awberry Strathroy, Ontarie Suffolk Hams
"For 17 Years I Was Nearly Blind


(Free Book-Free Advice)








 Dr. orbn onsal

- 308 North American Bulas.


Yame
Adaree
 " Farmer," Cavendish, Suffolk.

| $\begin{aligned} & \text { POUNTRY } \\ & \text { COEAGSO } \end{aligned}$ | Q2 |
| :---: | :---: |

BARRED ROCKS CANADAS CHAMPIONS. FIVE-DOLLAR COCKERFLS Satisfaction guaranteed or money refurded. John PRINGLE, LONDON, ONTARIO.

 $\mathrm{B}^{\text {UFF Orpingtons, Berred Rooks, White Wyan- }}$
 $\mathbf{B}^{\text {UFP }}$ orpmiatons-150 purohived cookerels





 $\frac{\text { each. W. r. McDonald, Petrolia, Ontario. }}{\text { CHoior oockerils, al Rhode Istand Reds, }}$


 $\mathrm{E}^{\text {GGS FOR HATCHiva-Rhode }}$ Wyandortar Reds,






 Mlso choice Partridge Wyandottes. R. G. Rose,
Glanwarth, Ontario.







 $W_{\text {ant }}^{\text {ANTED-New-latd Egge, Butter and Poul- }}$ try | prices. W. J. Fille, Prince Albert Ave., West |
| :--- |
| mount. Montreal, |






 (nang berems POULTRY


 amein.
Here are some names for the farms :-Woodside, Maple Land, Spruce Grove, Maple Grove, Willow Bend, Sunny
Slope, Fair View, Balsam Hedge, Wood-
lend. land
I do not like winter as well as sum-
mal mer, although it is lots of fun to suow-
ball and akate. I will send you a few riddles
1 am in every one's, way.
But no one I gtop
$\mathrm{M}_{\mathrm{y}}$ four horns every day,
play,
And my he
Ans. -A turnatile.
Black within and red with hout
Four corners round about ?
Ans.-A chimney about?
Why is a magnifcent house like a book
of anocedotes ?
Ans.--Because it is made up of good
stories. Woodstock, ont.

Beaver Circle Notes.
It Rufus Weber will write a longer let-
er he will see it in print. bot sides of tre pe paper, which is agalinst
 A great many lee your leter "in print." ontenge conpetitions are disposed or
please be patient, Beavers.

My Brindle Bull Terrier My brindle bullterrier, loving and wise,
With hie little screv-tail and hls wonder With hil eyess his hitewte breast and his white
 With his sad little gait as he comes from the fight. When he feel t that he hasn't done all
that ho might? h , sol fearless of man, yet afraid of a
trag
n near little, queer little, dog ! le, queer little, dear little
shivers and shivers and shakes with
tude cold
huddes and cuddles thoush an


## Can You Beat This?

END us this ad., together with the special price mentioned below, and
we will send you, PREPPAID, a beautiful Guipure Lace Coat Collar, exactly like the above illustration; length 21 inches, width 4 inches.
Your choice of ecres in your own home, and if you don't find it the best value you ever saw, and worth at least 33 c., return it, and we will re
fund your money without question. Our special price

19c.

## PAQUET'S

Spring Bargain Catalogue No. 28

## 

## COMPR <br> MAIL-ORDER DEPARTMENT

QUEBEC,
CANADA

## ONTARIO DEPARTMENT OF AGRICULTURE Provincial Auction Sale of <br> Pure-bred Shorthorn Cattle

(MALES AND FEMALES) WEDNESDAY, 1ST MARCH, 1911 Only good representatives offered. Many of the Clushionable Scotck inspected. and shipped to ted. Freight on animals purchased by residents of Ontario logues and further particulars and will by the Department. For cata-
W. R. Elliott, President, J. M. Duff, Secretary, Guelph,
or A. P. Westervelt
Live-stock Director, Parliament Buildings, Toronto

february 23, 191
And, torsaling the sunshine, endeavor With his cold ittle worriments, under At table his majesty, dying for meat,Sits sloseet.- by $m$ side with his head on
 How can I withold trom those wor$A$ small bitic or somenthing that stealthily
 As I tell my daer neighbor of lifo in tho my near itttlo, queer little, dear littlo
 The race that is loving and winning and The swoultest, most fatithul, the truest and best.

"Tafy was a Welshman."
How many of you have sung the rhymo
Tafy was a Welshman, Trafy was athief, Tafyy came to my houso and stolo a went to Taffy's house, Tany wasn't at
 Well, here is the story of itt, as told nT. P.; Weekly:
 Iown, any, from the fasteseses of Rad







 him to debase the national coinag

The Garden of a Com muter's Wife.
(By Mabel Ozgod Wright.)

Chapter X.-Continued. By the time I reached the end
the path at the bars and turned go back, I began to reaize the




 put Pat and the hounds into thei
nigh quarters in the stable As I opened the door, half a doze
juncos flew in after me, and bunche half exhausted in the bottom of a
hay-rack. I called Bertle, and told him to open one of the ventilating
windows in the hay-barn, on the side away from the wind, and there was back to the house, surprised to find Martha Corkle was in a state of ill-concealed alarm, which made her
head shake ominously, in spite of
$\qquad$
$\qquad$
$\qquad$
 $T \underset{\text { mine are a great }}{\text { Hent }}$ thing for the farming world. They not only make goo the por farmer in many other ways. And they are so simply laid. The
nested like this:
 This compactness save easy to handle them. You put the section
together like thiss


Then you clamp the
flanges together like this:

And you've got a piping that woull outlast anything of the kind there
is, Better get the book and sample and studyit entruen

75 Disperslon Sale of the Entre Herd of Imp. and Home-bred 75
SCOTCH SHORTHORNS
On FRIDAY, MARCH 10, 1911. Belonging to Richard Ward, Balsam, Ont.
 Comprising cows, heiters and bulls.
A great many of the cows have calves at foot. Those which have
not are bred and many forward in calf to Imp. Brilliant Star $=60833=$
$(91030)$. This bull, along with about fifteen other young bulls of serviceable age, are included in the sale.
There are also a grand lot of young heifers by Imp. Brilliant Star. Con-
veyances will meet the G. T. trains, north and south, on morning
of sale at Myrtle, also C. P. R. train
 from west at Dagmar 10.15. C. P. R. train Irom east in the worming
stop on the farm, Glen Major a flag station. The sale will be held under
cover. A credit of eight months' on approved joint notes. Sale to commence rsyth, North Claremont Ont Geo. Jackson, Port Perry; F. W. Silversides. Stouffville; Auctioneers.


## THE

## Bay of Quinte

## DISTRICT

Is famous for its fertile farms and up-to-date farmers. This year they have grown a large crop of clean, well-colored

## RED CLOVER

which will comply with the "Seed Control Act." I can save you money, because I buy from the grower and sell direct to you. Also good values in Alfalfa, Alsike, Timothy and all small seeds. Let me know your requirements, and you will receive samples and prices by return mail. Special quotations to farmers' clubs.

JAMES HANLEY,
Belleville, Seed Merchant, Ontarl

What's the hardest thing about roller
$\qquad$

## Red Clover Alfalfa Clover Alsyke Alsyke Mammeth Timothy Vesetable Flower SHPD

 If your plans for this year's seeding call for something good in and Grain ue will be pleased to send you samaples to examine. In thisway you will receive as much satisfaction as way you will receive as much satisfaction as a personal visit to our
warehouse will give. This week's prices per bus. for our best brands
of Clover and Timothy are (during February we poy warehouse will give. This week's prices per bus. for our bets brands
of Clover and Timothy are (during February we pay' freight in Ontario
on orders of 200 lbs. or over of Clovers and Timothy) "Sun" Red
 "Diamond" Timothy, $\$ 7.00$. These grade No. I Government Standard.
Our present prices in 5 -bus. lots or over for 0 . A. C. No
 Bags for grain orders free. Bags for Clover and Timothy orders 25 c .
each. Our catalogue is free

GEO. KEITH \& SONS
Seed Merchants since 1866 124 King St. East, TORONTO, ONT


The new "Galt" Steel Shingles The new "Galt" Steel Shingles
and Sidings are the surest protection from the fiercest storms that rag
storms.
They are made from the Best British Galvanized Steel Plates, which
shed lightning like water from a shed lightn, raike water from a duck's back.
No wind, rain or snow can penetrate the new Gale-proof, closedend ide-lock or the continuous interlocking and overlapping bottom
joint. They are twice as securely nailed as any other-that's very important.
makes a very handsome roof. They cost no more than ordinary metal shingles-why not have the
"Galt Kind?" Our free Catalog "B-3" explains all about them our free Catalog "B-3" explains all a bout them.
THIS IS THE SHEET METAL AGE.
Sales and Distributing Agents: Dunn Bros., Winnipeg and Regina.

## A Can of FREE

## 

 Martin-Senour Paints Coupon






the martin-senour co., Limited
Montreal

victualled, and blankets and coals in
plenty. The last time I saw a storm plenty. The last time I saw a storm
come up like this, I was but a girl,
serving Mr. Evan's uncle in his. serving Mr. Evan's uncle in his
shooting lodge in Scotland, to the which same place he had gone to
keep Christmas.
"/ The snow came that deep that we
were not duy out until Twelfth Ni were not, dug out until Twelfth Night
and there were shepherds, sheep and cattle being turned up at times
until spring, the same, of course, beuntil spring, the same, of course, be-
ing stiffened corpses, the thought making me fearful for
Timothy Saunders."
I laughingly told her that, with the
stout gray horses in stout gray horses in a country of
travelled roads, a few inches snow meant no danger; nevertheless, I was relieved when, a
six, father returtheless, "I've known nothing like it except
the great storm of ' 88 ," he said, the great storm of '88," he said,
stamping the snow from his shoes,
while the whistling wnd while the whistling wand nearly
drowned his voice, "and this time drowned his voice, " and this time
yesterday you were sitting out on
the yesterday you were sitting out on
the porch,
Barbara, and I was driving without an overcoat."
The telephone rang, blessed nuis-
ance Evan Evas detained in town,
lout would arrive at. nine. ance ! Evan was detained in town,
but would arrive at nine; we were
not to wait dinner and the not to wait dinner, and the storm
was not yet bad at that end of the
line. This comforting message wos the last word the telephone uttered
for five days. At a quarter to ten Evan came
home, snow hanging to his face,
bearding it white After a bit of supper, we, all went
to bed, feeling a strange, sensation of suppressed excitement, sensation
for the Wind was shrill as when keyed by a
ship's rigging, in spite of the muf-
fing fing snow that fell with a positive
sifting sound. sifting sound. Bluff and Lark, who
usually slept on the door-mats in the usually slept on the door-mats in the
lower hall, insisted upon coming up stairs, whining and fidgeting until in
self-defence we let them in, when Lark crawled behind them lounge, when
Bluff stretched himself beside Buff stretched himself beside my bed,
whence he arose at intervals my hand or nose, as if in assurance
of protection. of protection.
the usual morning there were none of however, the commuter troubles him
self self but little on Sunday. The dense
silence was more silence was more disturbing than
positive sound, and seemed to pran upon the brain. I I think the present
uxperionce experience has taught me an intense
pity for the deaf, who in the pity for the deaf, who, in the midst
of moving objects, must perpetually
feel this tenseness and prese feel th
silence.
Outs
Outside was a world of snow which everywhere billowed into fanciful
drifts. drifts. There were no paths, no
fences; one unbroken sheet stretched from the front door, covering bank-
wall, and road, and levelling them
with with the field beyond.
It was impossible to open the east door, so deeply was the snow heaped
against it, and the dogs cow refused to go out, even by the back way, where the wind had left a bare
spot.
Bertle had not appeared, and Tim
with difficulty fin with difficulty fought his way in,
bringing the milk pails, and has re-
mained here mil mo use to attempt the breaking of
no ther paths while it was still snowing, and an effort to free even the back stoop
was as foolish as Was as foolish as the proverbial task
of sweeping the wind off the roof
Father tried Father tried to call up the hospital, but the telephone was useless.
The lack of church bells told the plight of the village, and so we had
a day of absolute and enforced rest
in which and in which to arrange and plant our
indoor garden of books. The one-time parlor across the hall
from father's study and office had
boen the oeen developing (I suppose Aunt
Lot would say degenerating) into Lot would say degenerating) into a
comfortable den for a month past.
The best chairs that font Yeare had chairs that for so post. many
primly back against years had stond primly back against
thr wall were scattered ahout the
room, their places taken by a con
of scrull-ended mahogany sofas place, improvising side of the faced nook, their antique and inhos ingle monious hidden by the brightitable The north window was. Evican rugs an open bookcase jutted eut ide tair: topped form an alcove, with either somewhat similar no while I had a doorlike casement at by an odd, and a few big chairs A great side furniture, leaving plenty made up the ing." A women, and having oom for soon learns the importated by bestanding roome importance of having Thoors. There are many things that make loaves and fishes not only seem the sible, but quite an everyday affair, and the unpacking and rearranging
of books is one of them. The plants in my book garden, like those of the hardy beds, were jume bled together, regardless of size, col
or, or season, and or, or season, and quite overlowed
the space allotted them.
gested that gested that, as in the out Evan sug-
den, when pressed den, when pressed for room, gar-
should dispense with most of the an-
nials-nuals-the books of but a few months an brighten a brief period, have no toast-
ing qualities-and sen ing qualities-and send them to the hospital, thus giving first place to
the books of perennial delight and to the biennials-those volumes that one turns to at least every other year. opinion plays a large part in the hardiness of books, and that they
cannot be as arbitrarily classified as flower seeds.
My little
thy little library was built up of womanhood; or boyhood would have been a triter term for the first, as time. Strange, isn't it, that sex time when the readers books at a sexless, and then quite disappear as the readers themselves develop !
 Toymaker,", but never'" A Novel for Man," appears.
The first period of reading stood by itself, and ranged from Grimm's and Wilds of Africa., "، '، Tales," " The What He Did in Science," "Robin son Crusoe," an expurgated Gulliver tha," from which , and " Hiawa wholly my which I made a play histories and biographies that may be read from childhood to old age,
each reading yielding new meaning,
according to the development accordin
reader.
.Girlhood began with Clarke's land's "Queens," "Heroines," Strke StrickPathfinder,", and " "Little Women "" a combination of the literary, mar tial, and domestic, that was much to tory in all its branches, especially reigned of the Anglo-Saxon race,
supeme, and with it came folklore. In a single year, according to the dates written on the neat me, I became possessed of Brand's "Popular Antiquities,", of che conve
nient Bohn edition of the "Chronicles of Mathew of Westminster," Florence of Worcester,,", "Roger de Vovenden," "Ingulph,", and the
Venerable Bede," besides Plutarch's Lives," and the ponderous volumes of Schoolcraft upon our own Indians,
rom whom I then fancied myself deNatural history and the poetical
side of nature came later. Figuier's works and Fmerson's ${ }^{\text {a }}$. Trees and
Shrubs of Massachusets Shrubs of Massachusetts " hovered a bevy of bird looks. It had never before seemed any more necessary for
me to

FEBRUARY 23, 1911
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4th-Because those wh


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$\begin{array}{ll}\text { Louse Powder } & \text { Gall Cure } \\ \text { Worm Powre }\end{array}$
$\begin{array}{ll}\text { Heave Powder } & \text { Hoof Ointment } \\ \text { Kidney Powder } & \text { Healling oll }\end{array}$
$\begin{array}{ll}\text { Kidney Powder } & \begin{array}{l}\text { Physic Balis } \\ \text { Distemper Powder } \\ \text { Fiy Nocker }\end{array} \\ & \text { Ciser }\end{array}$
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## 

 The next year I met Thoreau quitinformally, though he
been wity been within hough he had always
neighbor reach, like the near neighbor upon whom it is so easy to
call that we put it off,
Frind Flagg went with me to the attic on
rainy summer days in the guise rainy summer days in the guise o
"Woods and Byways of New Eng
land," and its companion ". Bing and, and its companion, "Bird
and Seasons," while Burroughs and
Hamilton Gibson Hamilton Gibson were as a pair o
rose-colored glasses through which
learned at once rose-colored glasses through which
learned at once to differentiate an
to beautify far back two books belonging to
mother had
were were hath Michelet,'s, "The Bird,
and "" The Ocean." and The Ocean." books on plants and garden
ing followed thick ing followed thick and fast, and I
picked up a few inexpensive oddities
at the book sales when I father, sometimes venturing to bi myself-the "Flora Historica" of
Phillips, two quaint volumes on the terre being one of the British Parprowess; while the first book tha
Evan gave me was the rare Evan gave me was the rare North
American Sylva of Michaux and Nut
tall, with colored plater As Evan began to sort and stack increasing alarm as one favorite
after another went to build up the pile of annuals. I saw the Rollo
books and "The Wide, Wide World " depart without a sigh. I never cared for them except when I was rather feeble physically, as after whooping "The Parent's Assistant" and Hooker's "Child's Book of Nature " followed, together with the " Eng-
lish Orphans," "Les Malheurs de
Sophe" lish Orphans, "Les Malheurs de
Sophie," one of my early French
books, "The Children's and the books, "The Children's and the
Schoolgirl's Garland " of Mrs. Kirk School, and "" The Struggles and Triof a festive trip to the circus, I protested. "Do you ever read these books?" becoming aware that, according to the habit with book lovers, as far as the sherpecting was concerned, we cat in her skin. "Do course I haven't recently."
"Io you ever expect to again?"
" I not sure-that is, I wish to. I used to like them, and I
lo now, though I can't tell why " "I will give you an idea,"" said
Evan, as he saw my expression.
"Range them along the attic shelve and call them the garden of remem-
brance, where brance, where you may stray for
memory's sake just as we keep in memory's sake, just as we keep in
an odd corner of the outdoor garden some old-time flowers whose use is
gone, whose beauty is questionable, and yet the remembrances they bring It was slow work, this arranging ; for almost every volume had some-
thing to say or a why it should be planted in a give ticular nearby case. It was noon before we had more than made a be-
ginning. ginning.
Then there was a temporary intera man who lived far up the road. He was first seen coming zigzag
along the stone fences, steadying himself with a pole. He disappeared twice in fifty yards from losing his footing and stepping into a
drift, and when he finally reached the kitchen door he was exhausted, hav-
ing been several hours in coming
less than two miles ome milk for his haby, as, of course
he local pedler who usually supplie him had failed.

Of his Cambridge days a dignitary of
$\qquad$ went to call upon the mastor of his col
lege. He rang the bell., the door was
venen, and he wha

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able Stump Machine made, and the only one sold on a positive guarantee that it will do more than any other. Now it does not matter what kind of stump-p ulling work you have to do, we make the ight Machine for the purpose.
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 want, and the only one you will buy ask you just to test It for yourself under our most positive guarantee, tha It will do the work better, easerer, and puickerert, that tit will biear your land cheaper than any other machine on this earth. Isn't that plain
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FERRIJAFY 23, 1911
THE FARMER'S
QUEStions and answers
Veterinary.
SORE NECK-SORE BACK-
BLOOD OUT OF ORDER.

1. Horse has har o a orerenenkek. since sum-
mer.
charge
cmall pimples or boiss torm, dis
mer. Small pimples or boils form, dis
charge a little matter, and will not heal,
a 2. Another horse has had a sore back
for the same length of time. There is an Tor the same length or time. There is an
open sore that exudes matter.
2. What is | $\begin{array}{l}\text { blood is out of order, and which his generally } \\ \text { run down? } \\ \text { w. L. } \mathrm{S}\end{array}$ |
| :--- | Ans.-1. This is caused by pressure of

the collar, and is very hard to
 rest, or work with a heary breast collar.
If the openings of the boils are deep, they
should be out down should be cut down to the very bottom
with a knie, and the diseased tissue care
fully dissected out. If not deep. a caustic
 butter ot antimony once dialy with a
feather tor two or three days.
that you get it to the sottom
Be sure after using the knife or caustic to remove
diseased tissue, dress thre thes thes daily
dimet with a lotion made of one ounce each of
sulphate of $z$ inc and aceatate of lead, to a pint of water. If forced to use collar
and hames, see that collar fits well and
and and hames, se
is kept
it teane
othis is
2. This is caused by the back pad,
Work without a back pad, and treat as for No. 1.
3. Have his teeth dressed. Give a
 of equal parts sulphate of iron, gentian, ginger and nux vomica, three times
diaily, and feed well and give daily exer-
diee

Miscellaneous.


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Dopt. B, WInnipog, Man., Hamilton a

QUESTIONS AND ANSWERS Miscellaneous

## MILK RACK

 I intend building a milk - wagon plat-form, as light as possible, capable ot carrying $4,000,4,500$, or possibly 5,000 Ibs., and cans. I have two spruce bed
pieces to set out against the bolster stakes on the springs. They are about $4 \times 5$ inches.
Ceded, and what thickness and wide should they be ?
what material would d
$\qquad$
4. What kind of lumber would it be best to use or the covering, and state
the thickness necessary. The plattorm I used this year was two-inch plank, with-
out bed-pieces. This platorm was a load out beadpieces. This platiorm was a load
istelt, so wan something light and
strong. Your advice will be appreciated. trong. Your advice will be appreciated
or should you have a better platorm in should you have a better platiorm
plan, I would be thanktul to get it
hroug hrough your valuable paper. $\underset{\text { BEGINNER. }}{\text { per }}$ Ans. $-1,2$ and 4. The common plat-
form for a milk-hauling wagon in the neighborhood of London, has as its
foundation a couple of bed-pieces. Across these bed-pieces there are nailed strips of sound elm lumber an inch thick and three
or four inches wide, a halt-ich space be or forr inches wide, a hall-inch space be-
ing lett between strips. These strips at
the rear end of ollotorm betwean hind the rear end of platorm, between hind
wheels, extend but little over bed-piecese whels, extend but little over bed-pieces,
so as not to intertere with wheels. When two feet on each side much forther, say
these, and also to make a leagengthen
to to pre Vent cans from slipping off, other strips
of the same kind of lumber, two or tree inches wide, are nailimed or boot od three
to extreme outer ends of cross-strips 3. The spruce will probably be all
right, but $3 \times$ b-inch shape would be
atrong D
OLD PLASTER-MOLASSES AS
STOCK FOOD-SALT STFFTI STRAW - FISTULA - BOVINE AND HOMAN TUBERCULOSIS, 1. Ot what value is old plaster applied
to run-down land ? 2. What value is molasses at 35c. per
gallon, compared to ooil cake at prese
 should be fed to six-months-ond cortus, to
work horses; to growing pigs, ten weeks old; to fatening catle; to miking cat cat
tie; to spring calves; to fall calves? 3. Is salt, anplied to toll calves?
value to stifiten the strative lat ony best time to to apply, straw how how men is the
4. Aged mare has ? 4. Aged mare has fistula of withers.
There are two holes about hall- inch in
diameter diametere and two inches atep., have been
using a solution of Yenoleum and water
und tor about two months and and heyd wave got
somewhat smaller, but slowly. Con it
son somewhat sunaller, but slowly. Can it
be cured, and the remedy
5. Is tuberculosisis of cattle communica-

gons, old plaster is of little value as our observation
2. Molassers being a purely fattening
and hater oroducing food, with scarcely
any

## with oil cak. Et. Extens not be conperimparea


Thap, Where Mulasses can be procured very



$\qquad$
$\qquad$
$\qquad$


FARMLOANS


FERRITARY 23, 1911
QUESTIONS AND ANSWERS Miscellaneous.

GRAIN-DRILL SPACING Which will give the best results, a six
seven-inch spacing drill. sowing at the same rate? Some declare si A SubSCRIBER. Ans.-The six-inch spacing is preferre ing a better distribution of the grain. STRINGHALT
Have a Clyde gelding, rising four year
old, that was stringhalt last winter, but got apparently
all right in summer and showed symptoms. This winter he is affected
again with the same trouble. As he is again with the same trouble. As he it
a valuable horse, would like to know it there is a cure for same, or if he might
grow out of it? We like your paper very much; in fact, better than any other.
A SUBSCRIBER. Ans.-This is a nervous trouble that i
usually progressive. and worse in cold usually progressive, and worse in cold
weather than in warm weather. Medicinal treatment An operation, which consists in severin
the peroneal tendons, sometimes, but no the peroneal tendons, sometimes, but no
always, effects a cure. Injuries and dis-
asses of the foot sometimes cases of the foot sometimes give rise to
stringhalt-like movements, which usually
disuphen disappear atter the resulting la
ceases, but occasionally do not

WASH FOR PLASTERED HOUSE Please give information in regard to a
wash for a house. As our houso plastered, and marked off in squares, be
low the veranda; that is below where he top of it is attached to house, and ast, thought there might be a wash
hat we could apply to give all the same W. E. Cl:
Ans.-It is not likely that any wash hat could be applied would give the
same effect to the rough and smoother portions of house, though they might
both be made of the same ood wash, and one that lame color. A
vell, and
very cheap, is made as follows. very cheap, is made as follows: Take
bushel of lime, slake with boiling
water, make into a milk, and strain make make into a milk, and strain
hrough a fine sieve. Add to this a peck
salt dissolved in warm t salt dissolved in warm water; thre
ounds of ground rice boiled to a past
$\qquad$ ver, and let stand for a few days.
his can be colored to any shade desired. hisly when colored to any shade desired.

GOSSIP.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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 $\underset{\substack{\text { tieneme } \\ \text { tane: }}}{ }$
a mare placged a tratis.
 and






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one bull coming threc years. The remainder of the
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meet parties at IIrish reek tation on or day
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and obtain the other half ony way you choses
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ouestions and answers. Miscellaneous.

QUACK GRASS SEED AND I bought a quantity of hay containing uack grass.
dill the quack grass grow from the seed in th
12 th ? or from the root?
Ans.-1. If ripe the seed would D. E. 2. Both from seed and root PASTURE CROP FOR THIS SEA IAND-FENCING ACROSS 1. I have about five acres sand, fall-
plowed plowed, and would like to seed it in good
pasture for this summer. What would be
 ture, especialy.





 | of my tarm overy year |
| :--- |
| Ans. -1. The mixture |



 ture about the seond or third week in
June, and will last throughout tho sean





 parts of the boundary fence that by arge-
ment is yours to keep up, you can scarcely get away from the necessity of keeping
up the fence across it. WHEN TO TRIM MAPLES ASHARE SHAKES TREES FERTIIIZERS FOR Wh MANGEL maples be trimmed the year should hard
2. Are ashes good to put around fruit trees? Have a mare five years old that
3. Ha
hakes her head as if flies were at her 3. Have a mare five years old that
shakes her head as if flies were at her
nose. 4. What is the name of the liquid that
is put on allalla seed? I understand What it can be got at ottawa, or can it
be got at any drug store 5. I have a piece of ground, clay loam,
on which I had potatoes last year, and
it was heavily manured. Would it pay it was heavily manured. Would it pay
me to put nitrate of soda on it before
putting inangels on it, and how much per putting mangels on it, and how much pe
acre? Would you advise salt, too, and
how much? Where can I get the nitrat A SUBSCRIBER.
Anda? 1 . After the buds have swollen.
A. Unleached ashes are a valuable mater 2. Unleached ashes are a valuable ma-
nure for fruit trees. They should be ap-
plied over the whole surface of the
ground, and not close to the trunk merely,
3. Some horses acquire this habit with-
out any known causp. In other cases it out any known cause. In other cases it
is due to a growth in the nostrils, which
can be located and removed by a veterican be located and removed by a veteri-
narian. In some cases it appears to be
due to brain troutle. Whan no visible
cause can be discovered, nothing can be done. Nitro culture for inoculating alfalfa
4. seed can be procured from the Bac-
teriological lepartment. Ontario Agricul-
tural College., Guelph, and not from any drug stor". 5 . It would probably pay to apply 1.50 complete fertilizer usually. gives test re



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Will meet visitors on the shortest possible notice.
T. H. HASSARD, Markham, Ont.

$4 m m a n$
UNION HORSE EXCHANGE Union Stock-Yards, TOŔONTO, ONT.
The Great Annual Auction Sale of RECISTERED Cl Canatian-bred
REGISTERED CLYDESDALES
Tuesclay, Maroh 1Yth, 1911.
OUR WINNINGS AT GUELPH of Twenty-one ribbons on eighteen horses exhibited. It is worth your while to go
and see this bunch and Smith \& Richardson's, Columbus, Ont.

## Clydesdale Stallions:Fillies Hackney Stallions

We have been importing
Scotland, winners at New
lydesdales and Hackneys fo
5 years, and in that time have won at the leading shows in Canada and the United States he grand total of 40 cham pionships against an comers sides dozens of firsts, second and thirds. We never had and thirds. We never had now, They were winners in York, and winners at Guelph and Ottảwa. They are the best types of the breed, with size, character, quality, action and breeding, and we sell them as reasonably as inferior
ones can be bought, and give ones can be bought, and give
terms to suit. Clydesdale stallions and fillies and Hackney stallions.

Long-distance 'phone
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## Clydesdales and Hackneys

FOR SALE
We have more prizewinning Clydesdale fillies for sale than any other firm. We have them any age or colo

## Hodgkinson \& Tisdale

Simcoe Lodge, Beaverton, Ont
Long-distance 'phone.

To Buyers Looking for a Good Stallion:


1 have imported Percheron Stallions for years, and beg to call the attention of prospective buyers o the fact that I have won this year at Toronto
irst and second aged class sweepstakes and silver medal. Also at Ottawa Fair, first and third in aged
class, first, second and third in 3 -y ear-old class, class, first, second and third in 3 -year-old class,
sweepstakes and gold medal. Those horses are beautiful dapple-greys and blacks, three to four
years old, weighing 1,800 to 2 ,ooo lbs., with feet and legs that cannot be beat, beautitul heads and ner ks ,
the kind that good buyers are looking for. I do
not Intend, and I will not allow, if I can help it any one to give more quality breeding for a fixed price than I will.
udge for yoursel.

JOHN HAWTHORNE, Simcoe, Ontario.
7 Imported Clydesdale Stallions
selection, with type, quality, breeding and character unexcelled. OUr prices are right
and our terms a emade to
suit.
Phone connection. Crawford $\mathcal{K}$ McLachlan, Widder P. O., Ont.
ORMSBY GRANGE CLYIDESDALE FARM


ORCHARD GROVE HEREFORDS roung buls and ono- and two-year-ole heifers, of show-ing quanty and mor
breeding ; thick-foshod, smooth and even.
L. O. CLIFFORD, 0shawa,

WHEN WRITING ADVERTISERS MENTION THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. Miscellaneous.
CLOVER-SEED PRICES. I see by the market report that you
quote clover seed at around $\$ 7$ per bushel, quote clever seed at around $\$ 7$ per bushel,
and timothy seed at $\$ 8$ per 100 1bs. Are
these the prices which farmers get from

BOILS AND PIMPLES Are caused altogether by bad blood, an unless you cleanse the system of the bad Get pure blood and keep it pure b removing every trace of impure morth matter from the system by using the
greatest lnown blood medicio BURDOCK BLOOD BITTERS. Boils Cured.
Mr. A. J. Saulnier, Norwood, N.S.
writes:-" T wo years ago I was trouble writes.- boils on years ago I was troubled could not get rid of them back, an recommended me to try Burdock A Blond Bitters, and after using two buttles I tirely gone, and I have not been trouble with any since."
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Miss Eva A. Skinner, Granby, Qu Writes:- Am pleased to recommend much good. My face was covered with pimples, and being advised by a friend o try Burdock Blood Bitters and have not a spot on my face.
Burdock Blood Bitters is manufacturied
only by The T. Milburn Co., Limited,
Ont.
DUNHAMS' PERCAERONS

CFor forty-six years renowned large importations February 1, 1910 (the las las arrived October 12th), insure fine selection, as ually selected for size, bone quality stallions or mares, write for cata logué, illustrated from life.
W. S., J. B. \& B. DUNHM WAYNE, ILL

Clydesdales $\begin{gathered}\text { For SALE- Sred stallions. and and manas }\end{gathered}$ ning in age from toals upwards Seven
ares in foal. Keir Democrat (imp.) (12187) (ivp 180 ? ead of stud. Also a number of work horseen, Long
istance phone. R B. Pinkerton, Essex, Ont The Maples Farm HEREFORDS $2 \begin{gathered}\text { YOUNG } \\ 13 \\ \text { and } 14 \text { mous old }\end{gathered}$


ABERDEEN - ANGUS
 Aberdeen-Angus Cattle $\begin{aligned} & \text { Stock all agm } \\ & \text { and boh seete }\end{aligned}$ ANDREW DINSMORE MAPSt Grape Grange" Farm. Clarksbur!, ont. OREST VIEW I have lately purchased the HEREFORDS: Govenlock herd of Hereforima

ABERDEEN - ANGUS CAITLE choice yearling bulls tor sale at reasonable prices
so females any age. Parties requiring such will
and Eet good value. Correspondence invited. ALTON, ONT
GEO. DAVIS \& SONS. Willow Bank Stock F
SHORTHORNS AN
LEICESTERS.

 JAMES DOUGLAS, CLIE
CLEDONIA, ONTARIO SORTHORNS AND LEICESTERS, - Prosent of
fering: Eight choicely bred one and two yean

$?$
4

Shorthorn Bulls


THE FARMER'S ADVOCATE


SCOTCH SHORTHORNS
BY AUOTIOIN the farm, 10 miles from Thornbury Sta., G.T.R. and 12 m les from Markdale Sta., C. P. R., on
Thursday, March 9th, 1911 MR. S. J. McKNIGHT will sell without reserve 2 5 bulls from 10 to 14 months of age. This is a hikhclass offering; low, thick-fleshed, soggy, in good
condition and bred in the purple. ths' on bankable paper, or 5 per cent. per annum off
號
S. J. McKNIGHT, Epping P.0.


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The finest feed known for stock. Once a user; always a user. Sold either fine or coarse
DOMINION LINSEED ground. Write DOMINION LINSEED OIL CO., LIMITED,

Farmers and Cattlemen, Read This!




We have 13 young bulls for sale between 10 and 15 monthold and they are achoice ot.

Shorthorns and Clydesdales For sale: 6 bulls 14 to 20 months old ( 4 reds and 2



Maple Leaf Shorthorns and Hampshire Hogs Offering tor sale Shorthorb bulls and heiters and young Hampshire pigs.
PORTRR BROS APPIRYY PO.



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We only manufacture one grade. Our steens the best American grade.
Our tanks are so thoroughly braced that they will not twist or bulge. Heavy galvanized angle on all the corne
side.

CHEAP TANKS ARE EXPENSIVE It pays to buy a first-class article Onfario Wind Engine\& Pump Eo,
winnipge. (Loronto. calgary.


Haveon hand at it it prement time
Shorthorn Bulls
rade for Briop mont fopimim:
 H. J. Davis, Woodstock, Ont. SHORTHORN FEMALES of All Acmas por sale
 $\frac{\text { J. T. GIBSON, DBNPIELD, ONTAR1O. }}{\text { GREEN GROVE Shorthoran, Yorkbhires and }}$



 MAPLE LODGE STOCK FARM 1854 Very desirable young 1911 Shorthorn bulls for sale Have beat milining strains. LEICESTER SHEEP
of higheot qualitr. Lican Crosing. ©. T. Ry. A. W. SMITH, Maple Looflge, On Imp. Scotch Shorthorns - When Iosking
 Shorthors and Yorkshiress-A ont. Shorthorns and Yorkshiles - $A$ choice lot of

 Could Mot Smeep The Floor. It is hard to do house work with a weak and aching back
backache comes from sick kidneys, and But they can't, help it. If more work is put on them than they can stand it it order. Doan's Kidney Pills are a specific for
lame, weak or aching backs and for all lame, weak or aching backs and for all
kidney tioubles. Mrs. Napoleon Larmour Smith's Falls, Ont., writes:-" "I take pleasure in writ
ing you stating the benefit I have received ing you stating, the benefit I have received
by using Doan's Kidney Pills. year ago I wans terribly afflictai with lame back, and was so bad I could not even sweep my own floor. I was advised to try Doan's Kidney Pills, which I did, and
with the greatest benefit. I only used three boxes and I am as well as ever. I highly recommend these pills to any trouble."
Doan Doan's Kidney Pills are 50 cents per
boo or 3 for $\$ 1.25$, at all dealers or mailed box or 3 for $\$ 1.25$, at all dealers or mailed
direct on receipt of price by The T. Mildirect on receipt of price by The T. Mil-
burn Co.., Limited. Toronto, Ont.
When ordering direct specify "Doan' ${ }^{\text {a }}$ "

## Dr. Stewart's Pure

 Condition Powders makes strong, HEALTHY STOCK.



Woo satisisfed, your money back


Send for our vet- MEDICAL CO.,
erinary booklet.
10 Scotch Shorthorn Bulls 10

 Woodholme Shorthorns are of the richees

 HIGH-CLASS SHORTHORNS

 SPRING VALLEY If soon mant SHORTHORNS
 hone comnection. K $\mathrm{V}^{\prime} e$ Bros., Ayr, Ont
Shorthorns

 tageersivile, ont: Robert Nichol \& Sons. Oakland Shorthorns for Sale


Jno. Elder \& Son, Hensall, Ont INVERNESS SHORTHORNS
 w. H. EASTERBROOK. Freeman, Ont 4 Shorthorn Bulls For SLLE, of Thomas Graham, Port Perry, Ontario.

Questions and answers Miscellaneous.

ROPE OIL Can you tell me where I can get rop
oill, and what price?
w. B. A. Ans.-This oill, used in the manufacture
of ropes, could probably be secured from some wholesale hardware es.
at about 60 cents per gallon.

INCOME ASSESSMENT 1. What amount of income must a
tarmer have betore he can be assessed on same?
? How is it to be made, on face value of bank account, and notes of hand and
mortgages, and any other securities may possess,
ontarios, Ans.-1. The income of a farmer derive
trom his farm is entirely exempt fren

 S800, and the petson is a householder o
heand of a family, and not in reveipt
an income trom nil surcno HOG PROSPECTS - FORMALDE
HYDE FOR PFA CEMENT FOUNDATION.
Since subscribing for your valuable
paper,
on have noticed ruite a fee witems
on the profts of of Sows versus Cows.
am only to know a young man, and don't pretend
seen considerable experience in have had and
con classes of stock, and I think circum-
stances ale stances alter cases. I noticed one write
sold his milk for $\$ 6,510.61$, to the Can
dian Milk Produts sold his ing $\$ 6,510.61$, to the Can
dian Milk Products Co. Well, away
here, we prices. We can't sell our milk for s
There is no demand for
you may say, at all you may say, at all. By drawing it
miles, in time for the 7 -o'clock train, might get 3 or 4 cents per quart.
other thing is the pasture. Now, myself, I have only fifty acres, and only
thirty-five of that cleared, and where have
I room for pet I room for pasture? Of course, I intend
to clear more as I have time. Now, Mr.
Editor, I am writing this to -learn,
I I am going to ask you to to - Noarn, Mr
y
your paper farmer to write on the subject. I an am
only starting, and, not having too mother
money and neid money, and neither house nor barn in
condition, I would like to know what is My farm is good for wheat-excellent-but
there has been wheat upon wheat (as it has been rented out), until it is run (as it,
though last season there was a good crop
on it. From my experience on it. From my experience, in such a
câse, sows should be more profitable,
think, as I can grow a lot af roots, and I don't need pasture. I I have one sow
that raised 99 pigs, and she is fine sow that raised 99 pigs, and she is five years
old in the spring. I thought of raising
or keeping two sows, and raising about
two acres mangels, and then I would have about 40 pigs per year, as my fa
yilelds about 600 bushels of grain. here was no money in buying say, to to
fed stok, there was no money in feeding
your own feed.

RAW TORONTO, 1815. ALL KINDS WANTED
 Fu:s
C. H. ROGERS, WALKERTON, ONT.


SCOTCH SHORTHORNS
100 HEAD IN HERD


 Farm $1 / 4$ Mile from Burilington Jct. Sta Mitchell Bros., Burlington, Ont

H. CARGILI, de SON


John Clancy, Manager, Cargill, Ontario.

Elmhurst Sontch Shorthorns and Large English Berkshires

 J. A. WATT, SALEM, ONT
 11 miles east City sons, MOFFAT, ONTARIO.

SLOPE
SHORTHORNS
A. EDWARD MEYER, BOX 378, GUELPH, ONT

. Would using formaldehyd. on peos .
$\qquad$
$\qquad$
$\qquad$
 A. WATT, SALEM, ONI
$\qquad$

 OWNERS KNOW THF
REASONS WHYIHC
CREAM HARVESTERS
PAY BEST
 actual experience. The local dealer will givy you the names of some owners near you. Learn from
them why IH C Cream Harvesters skim most durable, easiest to clean, and easiest running
I H C Cream Harvesters



Riverside Holsteins
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MONRO \& LAWLESS,
Elmdale Farms, Thorold, Ontarie THEMAPLES HOLSTEIN HERD
 calves sired by King Posch
prices, description and pedigre
Walburn Rivers,
Folden's, Ontarl
Notice! In public test we have

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 Bull calves for sale. Moringey ford, M.H.Hatey, MOLSTEINS AND YORKSHIRES
 Offers a chice lot of boars and sows
ready to matee also orders taken for
the coming coro calves rom Prine
Posh Calamity Bleske and R.O.P. cows.
 write to Wm Barnet \&sons, Llving Sorings,
ont. Fergue, C. P. R. and G.T R. Holsteins and Tamworths for Sale-Seren
 Holstein Cattle $e_{\text {breed. }}^{- \text {The most profitable dairy }}$
 Lake View Dalry Farm I have several of HOLSTEINS! $\begin{gathered}\text { noted Francy bred- } \\ \text { ing also daughers } \\ \text { in }\end{gathered}$ by. Present offering: Bull cales and heiters.
b. P. BELL. RRITANNIA BAY. ONTARIS
Evergreen Stoct Farm offers bulls 2 to 12


 AYRSHIRE CATTLE!


Trint



THE FARMER'S ADVOCATE
 ing similar treatment. Spray before bud
burst with limesulphur 1 to 11 ; also ba
tosel
 2. There is nothing better than con
manure.
MCATERIALS FOR BASEMENT 1. Am purposing to put a basement
under sheod for cow stable.
you recommond
which would building brick?
a. How many hollow bricks would it
take for shod fol fout an take for shed 6o feet by 24, , 8 f feet high,
the foundation being laid with common
stono to grourd level?
3. Whant amount of coment or lime
would it take tor same?
S. H. . Co
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ proved defective in this ppat.
discolor badly with weather.
2. Alter doduct
2. After deducting doors and windows,
you may figure the number of bricks, ap-
broximater proximatety, by dividing the cubic con-
tents of the entire wall by the cubic con-
tents of ona trick

 of cement, would be necded. Last fall my hens took sick very sud a purplish-red, and that they were mopy.
I ted them a poutry tood three times
daily daily, also a little salts in chop, slightly
moist. It helped them, but several died
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ it is now and then that any errors in the
tood given and mannero of feeding it show
thair colcets
$\qquad$
or congestion ot the liver. It really mat-
ters litte.
Both are usually due to over-



$\qquad$


Clydesdales, Road Horses (2) Holsteins byauction THURSDAY, MARCH 9TH, 1911

 TERMS - 8 months' on bankable paper, or $6 \%$ per annum off for cash


|  |
| :---: |
|  |  |
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|  |  |

## Lakeview Holsteins ?

 E.F. OSLER, BRONTE, ONTARIO HOLSTEINS AND YORKSHIRES

Holatein Burlis
R. F. Hicks, Newton Brook, Ont., York Co. Toronto Shipplng Polnt.

 A. N. TEEPLE. Gurrie's P. O., Ont.. Weodack Sta. 'Phone connection

## Ayrshire Cattle in Ponies

## BY AUCTIOIN

In the CITY OF HAMILTON, at the Hamilton Sale Company's Sale Barn, THURSDAY, MARCH 9th, I9II

MESSRS. N. \& E. DYMENT will sell by auction, without reserve, 30 head of Ayryh re ca ile, 12 cows in milk, 11 heifers from 2 months to 2 years of
age, 6 bull from 3 to 12 months of age, and one bull 3 years of age. Several of those in milk a e in the R. O. P, and m ny of the orhers are sons and Welsh and Icela d ; ten of them will be s sld, from 2 to 7 yearv of age ar broken and sound; also the grand pony stallion, Venturesome Verne, a
Hacknev-Welsh cross TERMS: Seven months' on bankable paper, or 5 per cent. per annum
E. DYMENT,

Copetown P.O.

| STONEHOU Ayrshir |  |
| :---: | :---: |
| AYRSHIRE <br> bull calves, Two fit for service. ROBT | HUNTER \& SONS. Maxville, Ont. |
| Ayrshires <br> N. Dyment, R. R. No. 2, |  |
| Ayrshires है Yorkshires |  |

## A Word to the WIVES is Sufficient

$\bigcirc^{R}$ perhaps I should say "wise"--though it means the same. I speak especially to (Canallian women in this advertisement. Bcause I know that most women are WISIING for a beatiful home, at safe tome't
comfortable home, such as Pedlarizing provides at least cost. If any man reads this Id like him to think about it from liis

 the cost. III help your You'l find Pedarizing makes she best tuilang you could wish or,
frame house. My book is Free. Won't you please write for it? Do so nov, lest you forget


 peaifly whent sate thanows hnat
coappectable kind of build ding.



Laterulu deaigo
 Sitat wails toid on or mol ceilings and


$\substack{\text { sincoerlinen, O. A.Sedton } \\ \text { pourtinen, }}$

Pedlarizing Makes a SAFER Home Protects from BOTH Firre and Lightning


 Pedlarizing Makes a More ATTRACTIVE More SANITARY, More DURABLE Home





Oshawa-Shingled Roofs Are Fire and Lightning-ProofCan't Leak, Rot or Rust




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Let Me Send You My Big FREE Book Full of Pictures and Facts

The PEDLAR PEOPLE of 0shawa Nise
 ar Art Steel Ceilings and Side Walls Both Adorn and Protect




BRAMPTOE Jeremy We andan' greatest jersey herd
 B. H. BULL \& SON, BRAMPTON, ONT Maple Grove Yorkshires 1910 buslness a record.
19il to be stil greater.



 H. S. MCDIARMID FINGAL, ONTARIO Hillerest Tamworths
 owor to youngters. Herbert German, st
feorse, Ont.








Shropshires and Cotswclds Have also the best lot of young SHORTHRNN BULLS have ever bred, sired by one
of Whitetall Sultan's greatest sons. They will be sold wworth the money. You
shoul trite
Sold woon. ROERERT MILLER, STOUFFVILLE, ONT. should write soon. ROBERT MILLER, STOUFFVILLE, ONT.



CATTLE and SHEEP
SOUTHDOWNS
The Ideal Mutton Sheep


## F.

 FARNHAM FARM OXFORDS AND HAMPSHIRES CHAMPIon FLocks of both breeds.[^0]

OURES EOZEMA.
Hoo Pilles, Burnus Simitis, ohay
ped. Hands and Face:
 and is limhly, reconimendel his: that
whin have used it.

Write for Free Sample
macluse 2c. sta mp fur postagit
Soc. a Box at all dealers or upon
receipt of price from
THE ELEGTRIC BEAN GHEMIGAL CO..
Ltd., OTTAWA.

GOSSIP.
Sir Oswald wheat braad. known stock-breeders, in the of the best-
taken a new line in whins, has
terest has been developed all over the the
country. He has started a scheme for
the supply country. He has started a scheme for
the supply of whole-meal bread to the
inhabitants of the vill inhabitants of the village of Rolleston, on
his estate near Burton-on-Trent his estate near Burton-on-Trent. The
flour is ground by the old lashioned
stones, which the modern steal rollers stones, which the modern steal rollers
have nearly everywhere displaced. great many people are gravely dissatisfied
with our present bread, and as we bread-eating people, the matter is of na-
tional importance. Certain it tional importance. Certain it is, that
since fine flour came into fashion, denta
and stomach and stomach troubles have greatly in-
creased. Quite a few authorities contend that the whole of the wheat should be used in flour-making.
No one blames the
ble. He simply supplies what the trouwants, and would quickly install stones
for the production for the production of whole-meal flour, if
there were a demand for it Chere were a demand for it.
Cumberland, which has long been noted
for fine, muscular men Yor fine, muscular men, used to have a
fine "Haver" bread, which was really a
very thin very thin cake of fine oatmewal. This was
the staple bread on the farms, and was most deliclous. Now that that country
has largoly has largely forsaken this kind of bread
for bread it is claimed there ordinary white flour, deterioration, and especially dental troubles. The village bakery at Rolleston
has been simply overwhelmed with orders has boen simply overwhelmed with orders
for the whole-meal bread, and if Sir Oswald's experiment leads to an improve-
ment in our bread supply greatly enhanced an already great reputation. Burgoyne's Fyle supply by bettering the quality of British wheat without impairing its yield, promises success. This work has been done at the Cambridge School of Agriculture.
Strong wheats, such as Canadian Russian, give a much better loaf than Finglish wheat, but seem to be inherently less prolific. Transferring "Fyfe" to
England does not appear England does not appear to increase its
yield. So the Home-grown Wheat Com mittee has been experimenting with crosses, and one cross promises favorable
results. This is Red Fyte Essex Rough Chaff. Thye, crossed on Burgoyne's Fyfe, and a considerable quan tity of seed has been distributed amongst Carmers at 10s. per bushel. The coming
season will show mental promise is berne the exper field culture.-F. Dewhirst.

TRADE TOPICS
We draw attention to the advertisement Catalogue Ewing \& Co., Montreal, whose catalogue of reliable seeds may be had on
application. This 90 -page catalogue gives valuable directions regarding culture of prices of all seed suppligs as well as and vegotable and fower gardens, Poultry and pet supplies, and also implements for the lawn, garden and greenhouse, ar catalogued as well.

PLANET JR. TOOLS were invented by Samuel L. Arter, a practical farmer whose original ieas led him to construct farm. The ingenuity of these inventions and their practical efficiency, were too good to remain long unknown, and he
was soon constructing similar implen was soon constructing similar implements
for his own neighbors.
From this beginning has grown the large and conplete
plant of S. L. Allen \& Compong plant of S. L. Allen \& Company, in
Philadelphia, from which farm implements are now shipped World. Planet Jr. tools include seed
Irills and wheel hoes former Wo-horse cultivators, potardo diggers, and for all farming and gardening purposes.
Any farmer interested will find a copy of the Planet in. catalogue filled with valu-
able suggestions and helpful information it can be had upon request.
"How are you ?"
""Oh, I'm alout even with the world.
""low's that?"
"IHow's that?" I igure that I owe about as many

## 

## How "Eastlake" Steel Shingles



Talk No. 6
A Good Investment


## will save you money

Mr. Farmer - consider " Eastlake ' Steel Shingles purely from an invest ment standpoint
A building is only as good as the roofThen why spend time and money on nferior roofing that really lowers the value of your property?
"Eastlake" Shingles cost you less than any roof that will not last you l
They are economical and durablemake a roof that remains in perfect on for a lifetime
Time has proven them-roofs covered with "Eastlakes" 25 years ago are in perfect condition to-day.
Is not this a good investment?
Every dollar spent on "Eastlake" Shingles returns two dollars in in creased property value.
And here's a note for the housewife"Eastlake" roofs mean plenty of clean rain water for household use. Learn more about "Eastlake" Steel Shingles before spending a dollar in any roofing.
Send for our illustrated booklet, "Eastlake Metallic Shingles," also for booklet containing all these talks. Write to-day.

The Metallic Roofing $\mathrm{Co}_{\mathrm{o}}$
Toronto - Winnipeg ass


## RECIPROCITY

You do not need reciprocity if you buy your drills direct ture the IMPERIAL HORSE. We manufac Let us tell youl why he-EIT DRILL. best drill on the market to doy

THE W. I. KEMP COMPANY, LIMITED Stratford, Ontario.

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THE PEERLESS WAY of co-operative raising and marketing of poultry will absolutely guarantee success to every poultryman who will carry it out complete. Whether you have never kept poultry-whether you have kept poultry and made a failure of it-whether you have kept poultry merely in a haphazard way-or whether you are now doing well but might do better--The Peerless Way can help you to greater profits. For The Peerless Way shows how to hatch-feed-care for-fatten and kill and HOW TO MARKET.

0
Send right away for a full description of this money-making method. Let us explain to you just exactly why The Peerless Way will get you more profits, and let us send you our big, plainspoken, Free Book containing
Some Facts, Their Proofs and an Interesting Offer that will enable you to put The Peerless Way to work for yourself at a cost so low as to be scarcely worth considering. This book is very frank; it tells you just what you can do, and what you cannot
wards poultry-
ing as either a
business or a
side-line, you will be interested in the straightforward way it omes out with nformation
that is vital that is vital
to your


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Gentlemen:-Without obli-
gating maseeff, you may bend
me your book "When Poultry
Prays," and the proof of how
Theo Peerloss Way has success-
fully cooperated with others.
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Town
Province

It Will Cost You Little to Adopt the Peerless

 right kind of a start in poultrying; the
knowledge of what to do and what not to do is far more essential. But you do not need
to be an expert; for to be an expert; forply you with all the necessary knowledge. pretty fair amount of common-sense added to enough diligence to look after things properly, The Peerless Way can make poultry profitable for you.

## Co-Operation In

Raising and Marketing

 poultry-raising; it is also a prac-
tical method of co-operative marketing, - a system that will make you independent of combines, and enable you
to obtain top-notch prices for lar small quantities of eggs and poultry hk best advantage
The Peerless Way Has Over 15,000 Successful Users
 Over fifteen thousand poultry
men in tanada have cade sume-
cess of poulti) cess of poulty raising by The
Peerless Wav The The hat no heavy in -rstment.-they have started LEE Manfararing Co. Lud
they given up a big tract of land to their poultry yards. They have simply done what you, or any other capable person, can deadopted our system, followed the plain, practical method it teaches, and used freely the advice of our eswithout knowledge without knowledge or experience, have
stepped into the busstepped into the bus-
iness that guarantees high dividends on a small investment. Some of them are devoting only part of their time to it, and a few of them aredevoting all their time to it-though mighty few of them gave it all their time on the who has consistently followed who plan has achieved succese

You Can Have Free Advice From Our Poultry Advisory Board

 Way covers eve erything in poultry-raising
that it is possible for any method to but if, at any time, a point comes up that is peculiar,
to you alone, all you have to do is to write us. Our experts will consider your case individually and write
you personally. This service is free to every meme We Will Show You How To Market Your Poultry And Eggs.


[^0]:     MAPLE VILLA OXFORD DOWNS AND YORKSHIRES
    

