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# Farmer's <br> and Home Mragazine. 

## EDITORIAL.

## Now the Seeding

The temperature in the last ten days has been more like that of May than of March. The great depth of snow that lay on the ground a month causing destructive floods. The indications favor an early seed-time, and farmers will do well be prepared to take full advantage of these con-
ditions by forwarding the work as rapidly as posditions by forwarding the work as rapidly as possible. It is rarely that late frosts do any
serious damage to grain crops, and it has been serious damage to grain crops, and it has been
satisfactorily demonstrated that, as a rule, the satisfactorily demonstrated that, as a rues, enhe early-sown seded and the soundest sample of grain. The earlysown clover seed also gets the best star,t, grows stronger, and is the more able to hold
after the nursecrop is harvested. Economy time is an important factor in the farmer's cal-
culations in these times of scarcity of help, and it culations in these times of scarcity of help, and it is well to be prepared to make the most of every hour when the weather and orerations.
suitable condition for seeding operater
suitable condition for seeding operations. If the seed has not already been secured and once, so that a full day's work may be done in the field when seeding operations are in swing. for any reason, there is doubt as a
vitality of the seed, it should be tested to ascertain the percentage that will germinate. The implements will doubtless have been examined and put in condition to do effective work in the preparation of the seed-bed, and the horses judiciously fed and exercised, to harden their muscles and fit them for the work, their collars $\frac{1}{2}$ ted and their
Horses which harness made strong anc safe. Herses this is
have had little work during winter, and the have with most farm horses nowadays, require careful feeding and handling when spring work commences, especially if the weather be very warm They should not be driven hard for the first fey days, but allowed frequently to breathe freely their collars being slackened to cool their shoul ders, which should be washed with cold water a noon and with salt water every evening. Greal care should be observed that he cotars and that that the hames it the colar perfor, how, but the draught so that the horse may work with equally divided, so that Galled shoulders ur the greatest ease posssole.
painful to the willing working horse and also to the mind of the man in charge who has the proper spirit in him, and should be carefully guarded against by watching for the first appearance abrasion, relieving the pressure on the part and applying some lotion to harden the skin and hea the soreness.
It is not wise to take for grantod that ine weather is going to be continuous and to culti vate across a whole field, taking the risk of the
work being checked by a rain when the work is work being checked by arainows filled in so that hall done, and the water-layed in waiting for the
the finishing is unduly delay drying of the water-soaked land. Better work one half and finish it, running out the furrows and leaving it in a safe condition in case rain comes. Then the portion first finished will probably ripen first and may be harvested before the second is ready, while if all ripens at once, loss from shelling may occur beliore all can early too
vested. The desire to finish seeding earr often leads to skimping the cultivation, which is a serious mistake. The seed-bed should be froperly prepared, though the time and labor be prois well done before leaving it, as this may easily
make all the difference between a good crop and a partial failure
In connection with spring sceding, the fospe of clover-growing cannot be too strongly , reached as this is the sheet anchor of successful crop ping and of maintaining the fertinity of the land if it is to be plowed down the same season, will pay in the improvement of the soil, and will afford some pasture besides. Alfalfa as a soiling pasturage and hay crop, should receive consideration from farmers wherever the conditions ars likely to be favorable, and a trial given it on a limited scale to begin with. It has many en thusiastic advocates, and where it is adaptable it produces heavy crops of the best of stock food The earlier this is sown after the soil is in suit able condition the iarger

Do We Need a New Horticultural College?
at an gara Peninsula United Fruit-growers' Association held at St. Catharines, March 25 th, it was deided to apply the Niagara District of an experimental farm and college, to be devoted al most entirely to horticulture. The uresent inominion and the Ontario Agricultural College experimental farms are too far north to be of much service to the fruit-growers under Niagara conditions. It was suggested that the Horticultural Department of the Ontario Agricultural College might be moved there, and it has since been mooted that, having endern it ever to the Federal Department might turn it over the O. A.
C The justification for this essentially local as-
sistance is sought in the fact that Ontario pays a large share of the Dominion taxes. We do not think the suggestion is likely to be very seriously entertained at Ottawa; nor could we approve any such step by the Provinclal Department. ©ood work has becn the experi wino se tion under Mr. Murray Pettit, at while there is culture being the for an extension of systematic experinental work in the Niagara Peninsula, we doubt the practicability of running a special school of horticulture. It is one of those ideas which sound plausible, but do not work out well in practice. In the first place, we would expect difficulty in getting attendance and keeping up interest, while the benents to the students, we fcar, would fall far short of the anticipations of the promoters. The best agreneral course. It has is the one who takes a gence that the men who take the complete course make better progress in their favorite subjects than others " specializing " on them, omitting the rest of the lectures. The specialist seldom finds in his course sufficient complexity, variety or scope, to employ his faculties to
Then, the proposal to remove from Guelph the Horticultural Department of the O. A. C. cannot be considered. It is needed there for the benefl Nova Scotia has for years maintained a horticul tural school at Wolfville, in connection with he fruit experiment station, hut it is now being closed, and the Professor is going to the agricul tural college at Truro. A special experimant sta tion is still wanted in the Annapolis Valley, but the results of a special horticultural bechool have

Valley is parellel to that of the Niagara 1 eninsula, and we would do well to profit by Nova Scotia's expericnce. A gora District, the iden of which farm in the Niagara incidentally be made a useful adjunct of the $O$ A. The results of its in vestigations would be available for the horticultural students, and being convenient of access, they could occasionally visit it, to observe de monstrations in cultural work such as might no be presented at Guelph.

## A Conference of Canadian Fruit-

 growers.In compliance with the earnest resolutions of the Provincial Fruit-growers' Associations of Canada, Hon. Sydney Fisher has finally announced that a federal convention of fruit-growers will be called at the Capital in the autumn of this year, to discuss matters germane to the horticutural tions agitating the minds of our fruit-growers which only a representative council can satisfactorily adjust, to say nothing of the educational benefits from such an interchange of thought as would be brought about. Amongst the questions to be discussed, perhaps one of the most urgent is the adoption by all Canada of a uniform-sized apple barrel, as a legal standar upon which adjustments of transportation tarili may be based. At present the law does not pre mum and minimum dimension. The 96 -quart Nov Scotia or American apple barrel, and the 112 quart Ontario flour barrel are thus both legalized by statute. As the transportation charges, it is said, are based upon the maximum size, the Nova Scotian is taxed the same price on his 96 quarts as the Ontario shipper on 112 . On the other hand, it is claimed that the Ontario grower sometimes loses through the failure of purchasers to make full allowance for the greater capacity
of his barrel, as compared with that from Nova Scotia and the United States. Be that as it may, the desirabllity of a unfform legal package requires no demonstration.
The difficulty of the legislators has been which size to adopt. The Nova Scotia three-bushel standard is a very desirable package for apples, and has the advantage of being the same size as that used by our American competitors. The Ontario growers have found their barrel economical, seeing that it may be cheaply manufactured by the flour-barrel factories, cull stock often being
used. With the adoption of home manufacture by local coopers, this latter will become a factor of less and less importance. It will be seen that the question is sufficiently complicated to call for mature deliberation in national council, and from the proposed assemblage some definite recommendation will be expected.
Another knotty problem is the more explicit definition of No. 2 apples. A No. 2 barrel may now contain almost any kind of reasonably sound fruit, so long as it is honestly packed. The task factory standard in size and quality for each variety, is no easy one, and the surgestions of a ety, is no easy one, and the suggestions of a
council of practical growers and shippers would prove invaluable.
Cold storage and marketing, froight rates and classifications, express charges, regulation of or a means of dispensing with the commission business and a whole range of commercial and scienfic subjects will come up for discussion. There will, indeed, be no lack of topics or recommanda ions, and the work of such a conclave must re
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the william weld company (Limitrd)
Lompon, Canada.
horticulture. It would seem that the central council should be established as an annual or bia representative parliament of the fruit interests of the country. We believe that more general adoption of this conference idea would conduce to the better direction and value of departmental effort.

## The National Records Officer.

All the leading purc-bred live stock breeders associations of Canada having decided to nationalize their records and locate their respective Ottawa, the "/ Farmer's to commend the proposed choice as Uhief Officer of Records
for a couple of years past A. Clemons, Publication Clerk in the Dominion Department o Agriculture. Mr. Clemons, as record-keeper for the Canadian Holstcin-Friesian Association, demonstrated his capacity for that class of work.
Careful, faithrul and methodical, he will command the respect and confidence of the breed organizations as the officer who is to affix the national and transfer as received from the various breed registrars.

Work for the Railway Commission ultural Committee
vestigate the question of discrimination in frein rates on agricultural
the part of the rail wa
committee reported, after taking considerabl. Th dence, that there was discrimination between different points, and recommended that
way Commission should investigate the mattor Canadian railways were considerably higher in ome cases than those of the American lines, and in some parts of the Province of Ontario than in

## HORSES

## A Great Day for the Hackney

 Elsewhere in this issue we chronicle with pleas ure the successful sale of Mr. Beith's Hackne horses, at his Waverley stables, Bowmanville, Ont Hackney as date Mr, Beith pinned his faith to the bred or when crossed on properly-selected roadste mares. In actual practise they have justified themselves. Hackney-bred drivers sell at good prices, and how well they are able to command popular favor can readily be inferred from the for over $\$ 25,000$, on an average of $\$ 655$ sach This is encouraging, right in the midst of the horseless age, and many of the best of them went to the United States, where the automobile craza is at its height
## Sterility in Mares

Sterility, infecundity, or failure to breed. pends on numerous causes, some of which are r
movable, many, unfortunately, are not movable, many, unfortunately, are not.
It is difficult to ascertain the extent
it prevails. In the studbook it is shown among Thoroughbred mares the percentage those which produce is 73.36 , and those which abort and are infecund, 26.64. In the studs France the fruitful mares are 59.57 , and the un fruitful 40.43. Sterility may depend upon or ganic or physical causes, and may amount permanent impotence, particularly when congenit
al and located in the generative organs. Hermaphrodites (animals which strictly speaking are not of either sex; in which neither the male nor, the female genital organs are fully developed but in which there is a partial development of both are always sterile. Monstrosities are generally per manently sterile, as also are hybrids (the produce of a male and female of different species), bu there are exceptions to the latter, as there aro several well-authenticated instances of the mule and other hybrids reproducing. Prolonged c
tinence and old age is a frequent cause of in cundity, as is noticed in mares that have been used for work or pleasure until their usefulness has ceased, and then been retired for breeding purposes.
climate has often a marked in fluence on fecundity, sometimes checking it per manently, and at others rendering the animals inalso be impaired or suspended temporarily or permanently by ill usage, bad hygiene, etc. premature or to tardy coition when the cenera tive organs are not in a physiological condition for conception, or when they are in an irritable,
abnormal state. abnormal state. Underfed or overfed animals
generally do not breed as readily as those in mod generally do not breed as readily as those in mod-
erate condition. These causes can, of course, he removed by careful feeding and attention. Ex-
citable or vicious mares are citable or vicious mares are less likely to pro-
create than those of an even, gentle disposition
It has heen It has been observed that with mares accustomed to work, active exercise, even to produce fatigue,
before being bred, is favorable to conception.
Various diseased cases may only be suspected) of the generative
other organs, as well as peneral the system, may prove antagonistic to concep-
tion. There may be disease or alterations in vey ovaries, fallopian tubes (the tubes which conuterus or vagina, which will prevent conception
and if any material obstaclo and if any material obstacle to the contact of the parts, conception cannot take place. Tumors. of
various kinds in these organs is not infreguent various kinds in these organs is not infrequent
ly the cause of sterility.
In all these cases a careful manual cxamina
tion should tion should be made, as it is not infrequent that
the removal of the obstacle to generation is quite
within the scope of surgical or medical mencuroc the removal of the obstacle to generation is quite
within the scope of surgical or medical measures
Prollably the most common caus. is an abnormal condition of the neck of the uter-
us. Occlusion of the os utori (the canal leadine
throuph tho meck to the through the neck to the bordy (the canal leading
morece omomon than is pencratls, supposed. This
octusion mav occur durine Inctusion may occur during copulation only, and
of the to spasmodic contraction of the muscles liut is ifatal to whene sexual excitement ceases,
 operation. The operator must, of course, have
an intelligent idea of the anatomy of the parts:
he must be conversant with the normal condition
in order that he may be able to determine and in order that he may bo able to deter,mine and arm should be thoroughly washed and coated with sweet oil, and introduced through vulva into the vagina, then pressed forward u
the os is reached. In a normal case one or fingers can with little presssure be introduce through the os into the uterus. If this can b readily done and the mare is of a nervous an
excitable nature, we may suspect spasmodic excicabie nature, we may suspect spasmodic cause is suspected, the neck of the womb shoul be smeared with the solid extract of belladona tion. The mare should be bred in about hours after the belladonna has been applied. on the other hand, occlusion is found to be struments are manufactured for this purpose when an entrance can be forced with the finger no instruments should be employed. By insert ing the point of the forefinger into the center of
the os, and pressing forward with a tary or screwing motion, it, in many cases, can be forced through, then two fingers can be used in the same manner. When the fingers have not sufficient power the size of an ordinary aning, a blunt sound of hard wood made perfectly smooth and about two feet long, so that it can be guided by the hand in the vagina, and force applied with the
other hand, can be used (of course the instrument should be well oiled). Considerable force may applied with an instrument of this kind, and when once a passage has been forced it can usual
ly be enlarged with the fingers. clusion is due to growth of filbrous tissue the oc fibrous rings surrounded the os, an entrance canno and efled except by the use of a cutting instrument though a successful operation may operate, as by a skillful operator and conception take place as a result, there is usually a reformation of the delivery and often results in the death of prevents Hence, when cutting is necessary for of the dam When wise to forego all hopes of reproduction cessful. the mare should fingers or sound is suc wo after the operation. Diseases of hour or membranes of the uterus or vagina, which cause a more or less constant discharge, will prevent WHIP

Thoroughbreds and Hunters at the London Horse Show

Thoughbe Shows was ment Society, and by the Polo, the Hunter Improveriety's Exhibition,
To those who are non-resident in England, probably place in the have less interest than those that took Hackne the two preceding weeks, namely, the Shire and be in England at the period when these annual may Cake place, who has any predilection for horses shows ype of the Thoroughbred, Hunter or Polo, no better that which is held by these could be imagined than If March in each year these societies in the second week The Thoroughbred stallions which were exhibited on the first day of the show numbered ninety-four. These
comprised many race horses, which have comprised many race horses, which have been in train-
ing for a considerable number of years. They competed for twenty-ight premiums, each of the value of
$\mathbf{L} 150$, which are provided $\{150$, which are provided by the Government as a ro-
taining fee for their services for the ensuing year the particular districts in which they are stationed. The good work that has been accomplished by reason
of these sound sires being stationed in the districts of stock, included most fully secen in the classes for thei Which took place on the following two days. The tries this year for this class numbered two hundred an
fifty-four, and were all Ity. Enorts are being made by the Hunder and qual Soricty to establish a made thy the Hunter Improvemen
Whether or for hunter breeding Whether or not this will eventually be huccessful is

## STOCK.

## Prices of Pure-bred Stock.

 A breeder of pureAdvocate" "as Yollows :Owing to the poor demand for breeding pigs, I have reduced my breoding stock to onethird the number had a year ago. In future 1 will sell pigs for breading
purposes up to six months only. I find by experience and correspondence that 97 per cent. of prospective
 portod stock, at from $\$ 5$ to $\$ 10$ less per head than
parket prico-that is, adding the extra expenses of

 expect a breeder to vell his pigs for legs than grade price I do not know. Do they thimk he is in business
for his health, or do they think the Government sup plies breoders with breeding stock, and pay up the do ficit at the ond of the year, to improve the run of hogs
and on the market; or do they never stop to think there
are extra expenses in broeding, selling and shipping pure brod stock?
Now, for instance, a man wants a sow in farrow. and everyone wants a good one, one that has bee nect this sow to be reglstered, crated and delivered al their station, satisfaction guaranteed, for from $\$ 15$ to $\$ 18$ (and to their shame, be it said, there are breeder quoting these prices inf good condition, well forwara in growth and showing sele in pig, or she may be returned at the expense of the breeder. Most breeders know well that to breed a sow under eight inonths is going to stun the sow, and the consumed, except under most favorable circumstances. A sow eight months old, from good stock that have not been bred too young, of any of the
large breeds, will weigh close to 360 pounds. She is large breeds, will weigh close to older), and has to be
bred at this age (but should be old kept two moths longer before she can be shipped, to make sure she is in pig; she is now ten months old,
and weighs 350 pounds. At present market price, 3.25 for light and fat hogs, she is worth $\$ 21.87$ t. Now, the price of sows this age, and boars too', quoted
hy the best breeders, is $\$ 25$ delivered. She will weigh 450 lbs. crated, and will not be carried very far by
保 express for $\$ 1$ per cwt . ( $\$ 4.5()$ ) : then the other extras, such as interest on
about $\$ 5$, brings her up to $\$ 31.37$ t, and 97 per cent. of enquirers expect to get pigs of this age and descrip-
$\$ 15$ to $\$ 18$. Is it any wonder. in view ion for from $\$ 15$ to $\$ 18$. Is it any wonder, in view
if these facts, that so many breeders conclude that pigs don't pay, and have been sending their sows to market this winter, while the majority of farmers breed from scrub sows, at the earliest chance, one generation after
another, often using a boar only four months old ?
DISGUSTED BREEDER.

The Sow at Farrowing To the Editor " Farmer's Advocate":
I would like to emphasize the suggestion made by
别 I would like to emphasize the suggestion made by
B. S., in your March 16 th issue, under the above head-
ind ing. One of the largest and most successful
of swine in Manituba informed me that bis method was as B. S. points out. He gave the sow a big nest and
kept away himself, and as far as he could control circume away himsel, and ath ar else to disturb her. Wo must observe nature's workings in order to arrive at
safe rules to be used in the management of our stock. safe rules to be used in the management of our stock.
I was always taught to have only a small amount of short straw or chaff for the farrowing sow's nest. but experlence and observation (which are our best
tenchars) have taught me that when this is done the teachers) have taught me that when this is done the
sow is in a perpetual state of confusion, and continues sow is in a perpetual state of confusion, and conts her
rising up, pawing and rooting, until she exhausts her rising up, pawing and roting, unte she exhasts the
strength, and when thus exhausted, and worried by the squealing of the pigs, she, seemingly, would rather li
upon them than not. In In some instances a carm help them along, but in the majority of cases greater success will be attained by giving a big penful of clean straw three or The pen in advance of time when pigs are expected. The pe
should be in a quiet spot if possible, where there wil should be in a quiet spot and the sow should not b "oaxed or driven out for food at time of or subsequent
She will come in ample time, and if she to farrowing. She will come in ample time, and if sh
remain in the nest for 24 hours so much the better of course, I have had good results from watching an helping take care of the piglets, and, on the other hand I have had the sow to hide away where I did not see her for a couple of days, and it
most satisfactory results. So I have concluded it fust as well to go to bed and get my sleep, and le the sow take care of herself and little ones in the way nature has taught he

## Prized in Maine

You will please find enclosed $\$ 1.50$ for $m$ ulscription to the "Farmer's Advocate an ,

## Cost of Steer Feeding

Doctors differ. In your issue of Feb. 2nd, oh, Jing eltawa, gives the eef animal
From birth to six months...... $\quad 2$ cents per 1 lb .
Six month
5 conts Six months to one year.......... $\quad 5$ cents per lb.
8 cents per lb.
One year to two years. One year to two years........... 8 cents per lb.
Two years to three years....... 17 cents per lb. In the issue for March 9th, Mr. John Kennedy f York Co., who has been in the steer-feedin business for thirty years, disputes Prof. Grisdale's onclusions. He says, "My experience is that Chree-year-old cattle can be fed at a cost of from
seven to eight cents per pound."
He refers to Mr. S. Rennie's statement that a gain of 300 pounds on a fattening steer of 1,000 pounds, live weight, is produced at a cost of $\$ 24.52$. Before Co., in an article on cattle-feeding in the "Farmer's Advocate of Nov. 3rd. 1904, gives this opinion: "The 3i-year-old steers will get along on The latter may grow equally as well, hut the former will fatten better. Hence, I think, when the quality of feed is taken into consideration, there is a little more profit in the three-year
olds."
What are we to think of it all? There may be, as you suggest, considerable difference in the valuation of foods. but certainly very far from
sufficient to make up the difference between eight, sufficient to make up the difierence between eight
and seventeen cents per pound gain. Every one of these gentlemen is we believe, telling what he knows to be true. A possible solution may be,
that while these feeders deal with ordinary pasthat while these feeders deal with ordinary pas(ore cattle, Prof. Grisdale, in his experiments as the same animal or animals throughout, counting
the cost of feed, as the experiment progressed, and


Champion Clydesdale Mare and Foal.
At New Westminster Exhibition, B. C., 1994. Owned by H. M. Vasey, Ladner, B. C.
weighing the animals at stated times. If he did
so, then the beast at one year old would probaby be fat; at two years old real fat, and the ceady fat which, as every feeder knows, is a ver costly business. Like the extra two or three knots an hour on a vessel's speed, the last extr hat is put on at great expense. Most feeders wat tening period, with a much less expensive ration, cattle make as large or larger gains than they do during the latter half. This, not because the finished. Speaking generally, a very good motto for feeders is, "When your beast is fat sell him
INOTE-It strikes the "Farmer's Advocate hat, in this discussion Prof. Grisdale is now antitled to the floor: but, unlike a public meeting, anybody who has something good to say within time in these columns.-Ed,

## Pigs for Profit

The above is the the of a decidediy useful hand forty years' practical experience, coupled with scientific knovledge of the subject. It is written in plain, popular style, and is well illustrated. The characterdstics
and history of the British breeds of piss recelve treat and history of the British breeds of plgs recelve treat
ment, but the greater portion of the book relates to ment, but the greater portion of the book relates to
housing, breeding, feeding, general management. With chapters on dressing, bacon-curing, and common dis.
eases. It concludes with a calendar of hints for each eases. It concludcs with a calendar of hints for each
month in the year. It sells at one shilling, and munth in the year. It sells at one shilling, and
published by w. H. \& I. Collingbridge. London. Ens We have seen no better bouk of the kind.

Winter Feeding of Sheep

## Led in great britain,

 Editor "Farmer's Advocate To the Editur "Farmer's Advocate" : I have often felt that it was a matter for regretthat Canadian farmers have not seen fit to give more attention to sheep-raising. It appears to me that they have nogloctod to use the most useful animal on the of the value of their pastures, as cattle and horses (after eating all they can off a feld seeded down with, say, a mixture of. timothy and red clover) leave as
nuch for several weeks. Perhaps one may think at first sight that the saving of so much pasture is a very
small matter compared with the labor and care de sman matter comparod win the and care de mian winter: but the value of the sheep as a disseminator of manure seems in Canada to have been totally lost sight of. The time is coming, and is, in fact, close at hand, when we shall be obliged to keep more
stock the stock than we have hiltherto necessitate the cultivation of more roots or corn and while corn is perhaps the more easily cultivated, and will for that reason be probably more in favor
than roots, I should imagine that takfing the Eastern than roots, I should imagine that taking the Eastern will preponderate over the increase in tho acreage of corn. Herein lios the importance of keeping sheep.
Like the call, whose duty it would seem is to ea "ike the calf, whose duty it would seem is to ea
spiled hay," the sheep has to prevent waste in the spiled hay, the sheep has to prevent waste in the
root patch, by eating of the small roots which do not Pay for dressing and hauling in.
The system to be pursued on the small farms in Ontarlo (where a holding so rarely exceeds one hundred or one hundred and filty acres, and it is rarely prac ticable to sow the whole of a ten-acre field with roots) following the English method as nearly as possible
under the different conditions of climate and seisoon undor the different conditions of climate and sebso
the system to be pursued might well be as follows: iwell be as follows:
Óne-hall of a field being sown with oats or
harley, and the remainder to roots, atter the
straw crop has been straw crop has been-
carried off, sheep net-
ting should be put down, ting should be put down,
Ro that the sheep can
he turned onto the so that the sheep can-
he turned onto the stub-
hie without over-runhie without over-run-
ning the roots. The
sheep will clean off a sheep will clean off a
great denl of the spear
grass and other unwelgrass and other unwel-
come weeds, and at the
same time will be close same
enough to the roots for
it to be only a matter It to be only a matter of a few minutes' work
to carry a load of the
turnip topas and spread around for them on the When the turnips
have been drawn off in he fill. and the tops
disposed of, by feeding disposed of, by feeding ground, the sheepp should be allowed the run of
the land under roots, and the land under roots, and
kent on It until they have fairly cleaned of every vestige of herbage. Allowing them on only a small piece of the land at a time en-
sures their cleaning up the land effectually, and thetr sures thelr cleaning up the land offectually, and thelr manure is more equally distributed over the and than
would otherwise be the case. This applies, of course, to such sheep as are fattening for the butcher; in-lamb ewes being kept on pasture with the ram.
As for the crop to follow roots, dealt with in the manner described, the land is in as good shape as is it hand been summer-fallowed, for it is clean, not only from hoeing, but from the sheep eating off any late
weeds, and it has the benefit of an even coat of rich manure.
As to the feeding of sheep in the winter, the mothod As to the feeding of sheep in the winter, the method
followed must be to some extent governed by the con-
ditions under whe ditions under which they are housed. They should be allowed as much exercise as possible, when the depth of
snow permits, and whenever practicable should have their feeding troughs out in the yard or in an adjoining field, if not too deep with snow. Their turnips shoul really be cut into inger pleces by a turnip-cutter.
Sheep do not require much bulk of grain, and Sheep do not require much bulk of grain, and to
make it go round evenly, it is advisable to mix it with a fair bulk of damp cut hay, and scatter this over the turnips in the troughs. Ewes expected to lamb in the coming spring should have only a very restricted quan-
tity of roots, and many shepherds declare against thel:having any, but they should have free access to good
water, though they drink very sparingly, and not often
Staford, England.
ERNEST S. SANDERS.

## Since it Became a Weekly

## I have been a subscriber to your paper since

 he first edition, and consider it most beneficial to all farmers, espe ially since it has becomewi ehy ournal.
SAS. I. DAVIDSON
JAS. I. DAVIDSON.

## Roscommon Sheep.

Ireland's only native breed of sheep, the Ros common, is a long-wooled, white-faced varicty,
which, for size, robust constitution, wealth and weight of Ilesh, can hardly be excelled. With an association of breeders and a flockbook, organized in 1896, protecting their interests, such a breed of sheep is calculated to prove a tower of strength to their breeders in the Emerald Isle. Unlike some other counties of Ireland, Roscommon has
mainly confined her attentioa to the breed of sheep she claims as native. This fact is due sheep she claims as native. This fact is due
rather to the high character of the native Roscommon sheep than to any prejudice on the phrt
of breeders, who, it must be said, have been energetic and successful in the improvement of
their sheep. their sheep. Under the modifying influence of they exhibit considerable variety of type and character, but the sheep at present known as the
long-woolled Roscommons are indigenous to the County, their origin dating back for centuries, and they have shown a gradual improvement in type, particularly during the last fifty years. It
is held by some authorities that the present breed is the result of crossings with English blood, but the general consensus of opinion amongst old flock owners in the County is that they are the the various predominant qualities of the sire with the flock; that is, by taking advantage of the valuable peculiarities, encouraging their develop-
ment, and by degrees rendering them more permanent
It must have been very gratifying to lovers Society's show in 1895, the Challenge Cup Dublin long-woolled classes was carried off by three superb Roscommon shearling rams from the flock of Messrs. Cotton, Longford House, Castleria, which weighed at that time 21 stones, or 294 pounds
each, all showing well-sprung ribs, symmetry and quality of wool. Mr. Matthew Flannagan, of Tomona, Tulsk, had the premium winner in the aged
ciass at the Royal Dublin Show, a four-year-old ciass at the Royal Dublin Show, a four-year-old
ram that weighed 27 stones 12 pounds, or 392 pounds, and the same breeder had the secondprize aged ram in 1897, that weightd 438 pounds. The first-prize pen of three yearling Roscommons,
represented in the accompanying illustration, winners of the first prize for pen of three at the Royal Dublin Winter Show in 1903, dressed an average of $43 \frac{1}{2}$ pounds per quarter. Enough has
been written to indicate the valuable claims this variety to a place amongst the favorite breeds of the ovine race. All sheep offered for entry in the Roscommon flockbook are carefully inspected,
their breeding traced, and in the right ear of those accepted a shamrock mark is perforated.

## The Farmer's Side of Steer Feeding.

## the Editor "Farmer's Advor

I was much interested in Prof. J. H. Grisdale's ex oods. I also read his and Mr. Wing's experiments in egard to the cost of producing leef at different ages, and I must say I do not agree with them. I do not attle up too much when they were young and nat ally, they did not gain as much as they ghould do when hey were older, making a poor finish.
$200-\mathrm{lb}$. hog at eight months old pays the say that the han the same weight at six months, because they can utilize more of their cheap foods, such as roots, and
for the same reason I claim that a $1,400-1$, steer at or the same reason I claim that a $1,400 \mathrm{lb}$. steer at the same weight at two years or a a little over. I I
think it is a loss to farmers to fatten their cattle up think it is a loss to farmers to fatten their cattle up
too much when young, losing the use of much of thoir heap foods, which would only go for manure, as there pay to take them to market. I would say it pays better to build good frames when young, and leave the fattening period to the last, if it does take a little
longer utilizing all their feed. I have been fattening three steers this winter, that have gained 880 lbs . in four months, as they were put in the stable on the
26th of November, being an average gain of 293
$1-3$ 26th of November, being an average gain of 293 1-8
pounds, at a cost of four cents per pound, allowing for the value of food consumed, and taking into account
the worth of the manure and gain in price du:ing the feeding period.
Perth Co., Ont.

## Directions for Making a Brank

To make a brank or iron-headed halter for
leading an unruly beast, take a piece of 3 -inch round iron three feet long, and bend into an oval fraped loop, the loop to be 2 ft . 3 in . in circuminches projecting out in front, in the end of which incert a ring to attach a rope. Then punch a
honle or put a staple in either side of the loop to hollo or put a staple in either side of the loop to
attar $h$ traps. the one with a buckle, to fasten
over over the animal's head; $1 \frac{1}{2}$-inch straps are re

FARM

## Growing Roots and Vegetables

 Regarding my method of growing roots and vegeground on which I raised buckwheat the previous year which I consider the best for vegetables. I harrow the ground as soon as graln is harvosted, top dress with snow comes, and plow early in fall about four inches deep. In spring I harrow, cross plow, and harrow again thoroughly ; drill three feet from center to centor, making drill a good depth; manure in drills, be pounds of a complete fertilizer per acre, putting it a near seed as possible, I use a hand seeder for small seeds, and roll drills after seeding with horse roller. Iy first cultivating is done with attachments belong ing to seoder, and for breaking the crust on top ofdrinls of mangels and sugar beets it works well. After hat, and at least once a weok, and oftener if possible, use the horse cultivator, and I consider the cultivating of be the most important part in raising a good crop
of roote, while potatoes require the same. I mould my potatoes with the plow, making the drills as large as
possible. As this is my first attempt at describing possible. As this is my first attempt at describing any of my farm work, 1 do not know whether it is
right or not, but. Will say that $I$ have followed the in-
structions you have given the sugar-beet growers in ontuctions you have given the sugar-beet growers
Ontario with success in all root crops.


Roscommon Ewe Lambs.

Plank Barn Frames
Severul letters of onquiry regarding plank bary frames have appeared in the "Farmer's Advocate" in
the last few weeks, indicating a special interest in economical barn building, the cost of timber for frames
being now so high as to render building a serious being now so high as to render building a serious
proposition. The conviction is gaining ground that proposition. The conviction is gaining ground that
heavy timbers in a barn frame are unnecessary, and they are certainly very expensive. In a letter to this paper, appearing in the February 23 rd issue, Mr.' W Which appears on the same a page of the basement of
$114 \times 54$ This barn is
feet, with side posts 18 feet lonk and the height from the ground to the peak of roof is 54 feet

struction. The strength of a plank frame depend altogether on the way in which it is braced. Mr. W. E. Laland, in the Maine Farmer, of March eproduced on this page, gives the following description and instructions regarding the construction of the plunk $\underset{\text { Ther }}{\text { rame }}$
being only a great saving of timber, the largest used oeing only $2 \times 8$, from that down to $2 \times 4$. Less men and
time are required to erect these barns, and they are stronger and will stand the pressure of the hay and grain from within and the buffeting of the winds from
without, with less rack and sway than solid timber barns.
In erecting the frames of, these barns, the first step is a good, broad, firmly-placed foundation, built of stone
and cement, laid below the frost line. With this
and foundation to rest the plank upon the frame is raised No sills are used, the upright studs taking the place of posts; two for each post are set on the foundation the cross plank, extending the width of barn, tying the the cross plank, extending the width of barn, tying the
two sides together. The scantlings on each side of barn floor, forming center posts, are then raised and
spiked to this cross plank. Upon outside spiked to this cross plank. Upon outside of each up-
right is spiked a plank of the same size as and right is spiked a plank of the same size as, and par-
allel with, the first cross plank. This gives three $2 \times 8$ 's for cross sills through center of barn, each joint, or band, being fixed in this way. End joints, using
boards instead of plank upon outside, gives the bed woards instead of plank upon outside, gives the bed-
work of the barn. At the sides of barn between uprights in place of sill, a plank is firmly spiked ; this holds the uprtghts in place, and prevents working sideways, while the thoroughly spiked cross planks prevent
all movement in other directions. Having this solid foundation at sides of barn upon which to rest floor sleepers, we have to build a rest for inner ends. This is done by spiking $a 2 \times 8$ to the upof upright, extending entire length of barn on each side of floor space. These are strengthened by bracing, and by facing the upright with plank resting upon the ing hollow box for pust. Having placed foor, the stringers for floor over tio-up, and such other foors as are desired are fitted; with these to work upon, the plates are raised, $2 \times 6$ being used, the walls
studded with $2 \times \overline{0}$. thus each bund helps to brace its neighbor diagonally, horizontal boarding. The purlines are built in same way as other portions of frame, $2 \times 7$ being the right
 gives great amount of storage in the roof and a good-
looking larn though the writer is inclined to favor the lookng barn though the writer is inclined to favor the
steep, plain roof, as being the more econumical and giv-

## Potato Culture.

In giving evidence before the Agricultural Committee he Central Experimental Farm, Ottewt here was of the potato plant, said that every year which, experim 20 to 50 per cent. loss from blight, spraying with the hordeaux mixture. There wed by a great loss every year in the potato crope was also tatistics methods of culture. According to recent ada was 123 bushels, and in the of potatues in Can". Just think,", said Mr. Macoun, ". what the farmers are losing each year when, by proper methods of cul-
ture ture, it is possible to grow soo bushels per acre. At \% the highest-yielding variety of potatoes Macoun said, duced 690 bushels of marketable potatoes per acre, or
$i 72$ bushels of marketable and unmarketable tubers. i72 bushels of marketable and unmarketable tubers.
This vield awas based on the returns from a small plot. In the field crop the best yield was 370 bushols plot. acre. This,"' said Mr. Macoun, "' shows that the farmers of Canada are not making the best use of their
land where potatoes are grown. Their average yield Mr. Macoun then dealt with the question of vario ties. He emphasized the point that farmers should pay more attention to the selection of varieties, as thou-
sands of dollars were logat kinds of potatoes. The each year by growing poor mental Farm last yenr was the Vermont Gold Coin which produced 554 bushels per acre, and the poorest variety grown was the Early Andes, which yielded only
123 bushels per acre, or a difference 123 bushels per acre, or a difference of 431 bushels be that this should bring home to farmers in a forcible
manner the importance of securing good varioties. He also stated that much better crops would be secured if
the potato field was celtivated the potato field was cultivated six times during the
summer instead of three times, which is usually done "In cutting potatoes ines, which is usually done.
and in each piece. otherwise the crop eyes' should be left
The steed should be be so large.

atmosphere for some time before it was planted would
not kive as large a crop as if it were planted imme-
diantly." Alluding to the value of spreying Mr Wacoun said that all farmers should use the Bordeaux mixtur
on their potato crops for the prevention of bllght.

APREL B, 1905

## Clover as a Fertilizer.

(Ottawa correspondence.)
The value of clover as a fertilizer was the subject of an address by Prof. Frank T. Shutt, Chemist at the
Central Experimental Farm, before the Agricultura Committee last week. By means of charts, showing the results of experiments with clover at the Central Experimental Farm, he produced and emphasized many convincing arguments why clover should be grown extensively on every farm. The soil, said Mr. Shutt, to
produce good crops should be rich in nitrogen, and by growing clover the amount of nitrogen in the soil could be greatly increased.
In order to ascartain the amount of nitrogen added to the soil by growing clover, the following experivanized iron pots about nine inches deep and six Inches in diameter were filled with earth, which had been analyzed to ascertain its nitrogen content. When the experiment was commenced the soil in one of the pots
contained . 0392 pounds of nitrogen, or an estimated mount of nitrogen for one acre of soil, nine inches
deep, of 1.076 pounds. Clover was sown in the pot in the spring, and in the fall the leaves and stems of the plants were cut up finely and returned to the soil
The same was doue the next year, and the soil in the pot left undisturbed until the following spring, so that In the spring an analysis of the soil was made, which showed that the amount of nitrogen in the soil at this time was .0547 pounds, or . 0155 pounds increase from
two years' growth of clover. Estimated for an acre, lwo years' growth of clover. Estimated for an acre,
this gives 1,255 pounds, or 179 pounds increase in two years.

A similar experiment, conducted with a small plot of clover, gave similar results. When the experiment
was commenced the amount of nitrogen in a plot conWas commenced the amount of nitrogen in a plot con-
taining the 160 th part of an acre, taking the soil to a depth of four inches, was .0437 pounds. After two years' growth of clover the same soil contained . .5580
pounds of nitrogen, or pounds of nitrogen, or an increase of 143 pounds.
Estimating for an acre the amount of nitrogen in the Fstimating for an acre the amount of nitrogen in the
soil, four inches deep, at the beginning of the experisil, $10 u r ~ i n c h e s ~ d e p p, ~ a t ~ t h e ~ b e g i n n i n g ~ o f ~ t h e ~ e x p e r i-~$
ment, was 638 pounds, and after two years 708 pounds, or a gain of 75 pounds of nitrogan per acre from two Prof. Shutt also gave the results of another experi-
Promer ment, or series of experiments, to ascertain to what extent clover affects the growth of field crops. In the
spring of 1900 two plots adjoining each other, and conspring of 1900 two plots adjoining each other, and con
taining exactly tie same hind of suil, wern seyted, one with wheat and clover, the other with wheat alone. In 1901 corn was plated on these plots. The plot where
the wheat and clover had been grown the year previus the wheat and clover had been grown the year previous
produced at the rate of 27 tons 1,760 pounds of corn produced at the rate of 27 tons 1,766 pounds of corn
per acre, while the plot where wheat alone had been grown ylelded at the rate of only 19 tons 1,280 pounds
per acre. The following year, or in 1902 , per acre. The following year, or in 1902, oats were
sown on these plots. The yield from the plot where the clover had been grown in 1900 was 75 fushels 10 pounds per acre, and from the plot where clover had not been grown, 51 bushels 28 pounds per acre. In
1903 sugar beets were grown on the same two plots. The plot where clover had been grown three years pre
vious yielded 22 tons 600 pounds per acre, and the plot where clover had not been grown, 8 tons. 1,200 pounds per acre, truly a remarkable difference. Mr. Shutt said
he attributed the large yields from the plot where clover had been grown almost solely to the growing of this legume. Besides adding to the fertility of the soil, he said, the clover kept the soil in better condition phys ically, which was conducive to growing big crops.
A second series of experiments was started in 1901 when two addjoining plots were sowed, one with oats
and clover, and the other with oats alone. For conand clover, and the other with oats alone. For con-
venience of explanation, let plot No. 1 represent the plot sown with clover and oats, and plot No. ${ }^{\text {p }}$ th
plot where oats alone were sowed. In 1902 both plots were planted with corn. Plot No. 1 yielded 20 tons 800 pounds per acre, and plot No. 2,15 tons per acre
The following year, or 1903, potatoes were franted. The following year, or 1903, potatoes were f,lanted
The yield per acre from plot No. 1 was 202 bushels, The yield per acre from plot No. 1 was 202 bushels
and from plot No. 2, 154 bushels 40 pounds per acre and aran plot No.
or a diference of over 50 bushels from the plot where
clover clover was grown in 1901. Barley was sown in both
plots in 1904, the past year. Plot No. 1 produced a plots in 1904, the past year. Plot No. 1 produced a
the rate of 45 bushels per acre, and plot No. 2, 38 the rate of
"These figures speake. for themselves," said $\mathrm{Mr}_{\mathrm{r}}$
Shutt. " and prove conclusively that it pays well to Shutt, "and prove conclusively that it pays well t
grow clover with all farm crops. Cozn, oats, suga grow clover with all farm crops. Corn, oats, suga
bects, potatoes and barley all show greatly increased yields from the plot where clover was grown. These results should leave no one in doubt."
The speaker also exhibited a chart, showing the The speaker also exhibited a chart, showng en of nitrogen contained in an acre of cloverstems, leaves and roots all being taken into considera tion. In an acre of Mammoth Red clover, sown in April, 1894, and collected in May, 1895, the roots being
taken to the depth of four feet, there was a total of 150 pounds of nitrogen, 101 pounds in the stems and leaves, and 49 pounds in the roots. Prof. Shutt values The nitrogen in this form at 16 cc . per pound, or $\$ 15.0$
worth in an acre of clover of one year's growth Worth in an acre of clover of one year she
Numerous experiments along this line bore out the re
sults of the one cited above, showing the great value of clover as fertilizer.

THE FARMER'S ADVOCATE.

## The frrst step in the war with weeds is cir-

 umspection in purchase of seeds. Especially is seeds, although serious infestation may also occur hrough cereals, notably wheat and oats. Most feople utterly fail to realize the chance of introacing weeds in this way. It would be a wonderal eye-opener if every farmer would take a few handfuls of seed of one kind and another, place piles the a taode, and with a knife separate into impurities. He certainly would be amazed, the we have often been, at the large proportion of weeds that may be present in what appears a pretty clean sample.In buying seeds, the number of weed seeds is not nearly so important as the kind. Never judge seed by general appearances. Before purchasing sample of the small seeds take a representative sample of the lot, spread out on a sheet of white
paper, and with the aid of a small magnirying glass separate the impurities, noting the kind of tach, rejecting the sample if it contains any seeds
of the more noxious wheds of the more noxious weeds, and basing your esti-
mate of value upon the result of your To aid in identifying some of the common weed seeds, we print herewith reproductions of accurate drawings. The first sixteen cuts have been loaned
by the Canadian Correspondence College, of Toby the Canadian Correspondence College, of To-
ronto. The remainder have been especially made for us. iarizing one with some of the seeds to be
avoided. The cuts show natural and enlarged
size.


15-Ritograss. 16-Lamb's-quarters.


23-Ergot

## Beet-pulp Feeding

## FOURTH-PRTZE FSSAY

In handling and feeding one car, 26 tons, of sugar
pulp, I will give my experience and opinion of its value:-For unloading from car, I used the large onTo those who have had experience in bandling and storing pulp, it is well known how juicy or sappy it is, and it is very objectionable to have a flood of water
in one's feed room or root cellar, or rumning through in one's feed room or root cellar, or ruming through
the cracks from the floor above onto the stock, es $I \underline{I}$ have seen. Now, after filling, my sillo settled, as all silos do, and I planned to put the puly in the silo on top of the corn. I rigged a set of carriers, run by the
windmill, so as to elevate the pulp. The wind blew, and the carriers ran the pulp up as fast as a man and the carriers ran the palo The sito is an ideal
could fork it trom the wag. The
place for pulp, and over the corn is best, as the julce soaks into the silage and is not wasted. Any quan-
tity could be stored, and for an indefinite period. It ferments slowly, but does not heat, and the stock hike it better the longer they feed on it.
2 nd and $3 \mathrm{rd} .-\mathrm{I}$ fed the pulp to all kinds of stockhorses, milch cows, fattening cattle, phas and chickens.
Horses ilike it falriy well in inmall quantitios, but i beHorses pree a mangold. Milch cowe go at tit ike June
lieve prefer
grass, and millk accordingly, with mo grass, and millik accordingly, with no eigns of acours,
very fond of it also, and will "fill up " better
roughage with the pulp mixed in than anytbing I ha
fed. The cattle were fed pulp three timoe daily fed. The cattle were fed pulp three timos daily all up clean. For pigs, I mixed the pulp and ground grains in a large feed box, and got as good gains as when foeding mangolds in the same way. Th sy eat
everything up clean, and their tails begin to as Theodore Louis says, is '. the thermometer of the hog." When his tail curls he is thrifty and hearty Pigs were fed three times daily also. Cattle of showing their appetite for the pulp. showing their appetite for the pulp.
4th. The pulp, quantity for quen
estimation, fully equal in feeding value to ensilag mangolds or turnips, and judging from the way stock eat and relish it, they endorse my opinion, the pulp was at the commencemenent, giving a oung of ration until feed, and later guiding the quantity fed by the for the manure.
6 th . - The value of pulp must be credited, as with other roots, to its succulence, and in helping to assimi late in digestion the dry lodders. In point of succu-
lence it far outstrips any roots, but a ton of pulp would be only about one-half the bulk of a ton of pulped mangolds or turnips. One ton of pulp would feed given number of stock as long as twenty bushels of tur
nips or mangolds, with, I am sure, fully as good result nips or mangolds, with, 1 aln sure, fully as good resul the average price of ten cents per bushel would make the pulp value $\$ 2$ per t
old adage, " You a remarkable contradiction to the old adage, " You cannot eat your cake and have it."
One can grow a field of beets, sell them, and have them for feed besides, the company returning the pulp to the grower at the small cost of firty cents per ton
freight. I
I have grown beets and fed the pulp once. like it, the stock like it, and I shall grow again.
Oxford Co., Ont. ARTHUR L. CURRAB.

## DAIRY

## Questions for Dairymen.

1. What is your favorite breed or grade of
dairy cows? Give reasons. 2. Do you make the milik into butter on the farm, send to a cheese, butter or condening
factory, sell whole milk or cream? 3. If possible, send us figures telling wha
cash returns per cow you received last year from the milk of your herd
2. Can you show the profit derived per cow
during the year, by deducting cost of feeding and care '?
5 . Do you keep a record of what your cows produce in pounds of milk, and do you test it are its advantages
3. What is the best plan to get a profitable dairy cow?
[Uoncise answers to the above questions can be put in a few hundred words, and we request our dairy readers to send their replies in by the
earliest mail convenient. In case you are no earliest mail convenient. In case you are no
in a position to fully answer some of the ques tions, omit these and deal with the others.]

## Carleton County Dairying

A second series of dairy meetings, under the auspices of the Ottawa Cheese and Butter Board
has just been completed in Carleton County Meetings were held at tive points, and at each place The speakers were N. G. Somerville, Superintend ent of Cool-curing Rooms, Brockville, Ont.; Dairy
Instructor S. S. Cheethem, of Gananoque, and C F. Whitley, of the Department of Agriculture, O
tawa. These dairy meetings have done much to raise the standard of the dairy products of Carle ton County. Other cheese boards might profit
ably follow the example of the one established at ably foll

Eastern Dairy School Exams. In all, nineteen students tried the final exami School, at Kingston, of which number fifteen wer successful. Besides taking the written examina-
tions upon the different subjects, each student ad to take a practical examination upon the work in each department of the school. The fol
lowing is a list of the successful candidates, an anged in order of general proficiency: G. A.
Drake, W. A. Stewart, P. R. Best R. T. Gilles
pie. Thos. McFadyean, Geo. Coxhill, I. F. BrintDrake, W. A. Stewart, P. R. Best, R. T. Gilles
die. Thos. McFadyean, Geo. Coxhill, H. E. Brint
hell. W. J. (Zuinn, A.E. Muphy, S. I, Brintnell
I. I. Ballard, T. J. Ellis, Thos, Folkard, I. W mith, and J. Bates. take elght iarm papers, but like
Advocate", best of them all.
T. B. GARNSEY.

## Creamery Cold-storage Bonuses

A Agriculture ded by the Honorable the Minister asked to extend the bonus on cold storage at creameries to the year 1905. All owners
creameries, or creamery associations comply with the conditions enumerated below, will be entitled to the sum of $\$ 100$, to be paid in three
installments, as follows: installments, as follows
(1) Fifty dollars,
close of the manufacturing season of the year close (2) Twenty-five dollars, as second install-
ment, at the close of che manufacturing season of the year 1906 . at (3) Twenty-five dollars, as third installment, at the close
year 1907
All subject to ratification by Parliament
To be entitled to the payment of the bonus,
the following conditions must be fulfilled :
built, in suitable cold-storage room must be 1904) supplied by the Dairy Commissioner's Branch or the Department of Agriculture, or with (2) Butter must be manufactured at the factory during the summer months, at the average rate of not less than 2,000 pounds a month, and an accurate sta
(3) The temperature in the said cold storage must be maintained continuously during the sumof the temperature recorded day by day on forms supplied by the Department, must be forwarded at the end of each month to the office of the Dairy Commissione
sent in before the lst for the bonus must be sent in before the lit of July, 1905. Any ap-
plication after that date will not be considered.
Plans showing the Plans showing the style of construction recom-
mended for the insulation of the refrigerator, for mended for the insulation of the refrigerator, for
either the cylinder system or the circulation system, will be furnished free of charge on application to this office. Experts will be sent when-
ever possible to give instructions on the spot if ever possible to give instructions on the spot if
application is made to the Dairy Commissioner, applicati
Ottawa. A. RUDDICK,
Dairy Commissioner

## Two Urgent Needs in Dairying

In reply to an enquiry we might say that it Mr. J. A. Ruddick, to hold a dairy conferunce Ottawa his spring. However, it will probably be found desirable to have one next autumn. The
experience of the season of 1905 in Canadian dairying will then be fresh in mind, and with the actual situation present and prospective in sight, plans can be matured by the leaders in dairy edua useful bearing on the convention and dairy school programine of the winter of 1905-6. Mr. Ruddick will probably visit Europe during the fresh points of interest to lay belore the autumn conference. With regard to cheesemaking, Land-
da has won a place of the very best repute in a has won a place of the very best repute in
the world's market by methods which are steadily the worlds market by methods which are steadily proving more uniform. From time to time ime found needful in some of the de-
tails of the process, but in the main it can be proprovements are for
tails of the process,
nounced ". grood."
There are other points, however, that renuire
Thecial and careful consideration and is the patron end of the business, in order that The milk supply be maintained at a uniform de-
gree of excellence. gree of excellence. Ry advanced factory methods
come of the difficultics arising from defective milk Can be mitigated, but, once there thry cannot be entirely eliminated, and in the end will work out
to the detriment of the industry and the patron. As suggested in last week's "Farmer's Advo-
cate," the factory and the patron might be brought into choser touch through the instru-
mentality of the iravelling instructor, who, in addition to his work in the facturies, should visit
the farms where the milk is produced. Leaving out of consideration for the pres.nt
the question of transportation and fluctuation in prices, probably the weakest link in our lairy
clain will be found in the defective curing-
rooms, The four Dominion curine stater Cownansville and St. Hyacinthe, P. Q., and Brock-
cille and lloodstock. Ont inle and lloodstock, Ont, Which have served a
valualle purpose in demonstration, will te con-
tinued this season as l,efore, excent that in wo of them (Woodstock and (Wrwansville) the conling
will he done with ice instead of mechanical re is too expensive for small plants. Txellent results. portunity for most valuable work on behalf of the dairy industry in determining cheap and efficient
materials and methods of insulating cool-cruing
rooms for cheese and buttor factory tors and we trust that the Dairy Commissioner's
work in these directions will work in these directions will be fruitful of irac-

## Buttermaking Starter

At the Ohio Dairymon's Association meeting, Mr. C. E. Gammill described his method of making fer to buy a good pure culture, fresh from the laboratory. I select some good clean milk, per fectly sweet, and then heat it to 180 degrees $F$ minutes, at this temperature for about thirty about a quart of it in a glass jar that has been sterilized, and add the pure culture, being carefu not to fill the jar so full but that you have ample space to shake, and shake it often for the first hour or two, to be certain that your culture is all dissolved and thoroughly mixed with the milk hen place in a water about is degrees F., and keep it warm till nto the milk which hes bee sected to put the starter, and which has been heated to 180 degrees F ., as described In pasteurizing the hilk for the starter we should be very persisten in stirring it; not with an old tin lipper that has a thousand bacteria to the inch, nor with a wooden stick or paddle, but with a metalli stirrer made for the purpose, one that you ca ceep absolutely sterilized.
" "1 first select enough milk for the amount or a quart to ten gallons; I strain the milk in to the ten-gallon cans, and they are placed in a galvanized tank with steam and water con-
nections, and in this tank all my starter is made. nections, and in this tank all my starter is made.
After pasteurizing the milk I draw off the hot water and immediately cool it down to 75 d grees F. We have a common Ideal galvanized
tank that will hold ten cans. This sits on the tank that will hold ten cans. 'This sits on the to let the tops of the cans be aloove the heigh and it is convenient to lift the cans out and in; we made a noiseless heater in the botlom of the tank, also laid some pipes in the tank
to set the cans ou, so that the hot or cold water cau get under' and all around them. If in the morning afterwards, the starter does not
seem to be quite ripe-that is, thick enough-or seem to be quite ripe-that is, thick enough-or has not developed acid sufficiently, we can again
warm it and cool it with very little trouble. We find that the lactic acid germs do not thrive or
multiply very fast below a temperature of 55 demultiply very fast below a temperature of 55 de it into ten take a quart of the starter and pu stir thoroughly for the first hour; in about 20 hours, holding the milk at 75 degrees, it will ready to put into the cream. First, save out enough mother starter for, the next day, procest-
ing from day to day along the same line till your ing from day to day along the same line till your
starter goes off flavor. Then be sure to discard this starter and make another, as a poor starter worse than none. ing "Cleanliness will have more to do with keepperiod than anything else, and must be practiced from the start and kept up till the finish if yo can expect good results. I seldom use a starter longer than a week or ten days, even if it may

Dairying Maintains Fertility.
Professor Curtiss, at the recent dairy convention a
Codar Rapids, Ia., told why dairying ain tility of the farm. He said: In anding the fer we sell with it about $\$ 350$ worth of fertility. In sell
ing $\$ 1,000$ worth ing $\$ 1,000$ worth of corn we sell about $\$ 250$ worth o
fertility or constituents which would coll this amount if he were obliged to buy commercial fer tilizers to main ${ }^{\wedge}$ in the fertility of the farm. But we
can convert $\$ 1$, uon can convert $\$ 1,000$ worth of corn into beef, pork or $\$ 25$ worth of fertility from the farm, or we can conver $\$ 1,000$ worth of feed intu butter and not remove single dollar's worth of fertility with it. Butter is almost wholly pure fat or carbon, and it adds nothing
to the value or productive capacity of the soil.".

## Homemade Pasteurizer

Pasteurized milk can be prepared by the house-
veeper, as follows: Put the milk in a small-mouthe ylass bottle which has been cleaned with boiling water.
 and immerse the basket in a pot of cold water, or a
Pan can the phaced in the pot, upside down, and the han can be placed in the pot, upside down, and the
bottles stood on it. Heat the water gradually bottles stood on it. Heat the water gradually to a
temperature of 158 to 165 degrees. Keep the water at
the same teniperature for about 30 minutes. Remove If the miniks in tool quickly, and put them in a cold place.

Hold Fast to the Dairy Cow. Dairymen
year instead other branch of fearming, will reap the fewnard this seasee why so many farmers should be always going out of this, that or the other line, at the tine of depress-
sion, just when prudence would dictate the advisability of stocking up with good cows, so as to he ready for the better times sure $t$ f follow. The swing of th
pendulum between extremes of price is largely due to the fickleness of human nature, leaxling, as it does, and under production, which in turn is the result previous fluctuations. The economic disadvantage o
such a tendency is serious all round. From the stand such a tendency is serious all round. From the stand
point of our Canadian dairy export business it is grave detriment, because our customers, failing a regu Lar supply, become switched off onto some other coun-
try's produce, and, their taste not being cultivated expay the premium in price, which might be obtained from
fastidious customers regularly supplied with a uniform product of certain flavor and appearance. In local
markets again the inconstant supply restricts consumpnarkets again the inconstant supply restricts consump
tion in times of scarcity and high prices, whilst in periods of glut the producer does not gain much by the
free consumption, since the price he then gets leaves little or no margin of profit. If there is any reason to
warrant a farmer in changing from one line to another, warrant a farmer in changing rom one line to another,
it would be to get out of the lines that have held high
and into those that have been depressed-a reverse of he usual practive.
As a general rule, we believe it pays much better to
stick pretty well to the same lines from year to year. stick pretty well to the same lines from year to year,
except when calculation shows one or more to have been except when calculation shows one or more
unprofitable for a series of years, in which case it may
be wise to work into something likely to give better be wise to work into something likely to give better
average returns. One great disadvantage of shifting in average returns.
and out of dairying is that it necessitates a change of
stock, good cows being often sold aud inferior ones bought later. Many factory patrons, by the way,
thange any way, buying, milking and feeding the cows change any way, buying, milking and feeding the cows
for beef. In our opinion there is only one class of
dairymen who should ever do this, viz., those situated on expensive land near a town or city, supplying a re-
tuil milk trade. They do not have skim milk to raise the calves, and the whole milk, oven if there were a regular dian
dairyman snourd by all means raise his own cows. He
has the necessary skim milk-if patronizing a cheese factory he should have a few of his best cows calve in fall, or at least in early winter-and by keeping fewer
cows and turning some of his roughage into well-bred
dairy heifers, he can make more money, in the long run, with considerably less drudgery, than by keeping
only cows. The most objectionable feature of dairying is the daily chores, particularly milking, Sundays, holi-
days, and all the time. The time spent in milking masy be recompensed by the returns, not the slavishness
cntailed by the keeping of a large stock of milch cous requiring three or four hours' milking a day on the
part of each hand. It ties the whole family down.
This may be largely obviated by turning part of the This may be largely obviated iny turning part of brod
feed into good dairy heifers, which, if properly brod
and cared for, will be found a convenience, economy. and cared for
and pleasure. A still stronger reason for raising one's own cows
is the fact that it is the only possiule hope of dairy herd improvement, which in most cases is absolutely
essential to satisfactory protit. How any farmer, in this day of dairy tests, published experience, and cow
census revelations can expect to get a profitable herd
going out and purchasing cows here and there, by mere going out and purchasing cows here and there, by mere
appearance, is hard to understand. Few farmers sell appearance, is hard to understand. Few farmers sell
their best cows, and those who do rarely have good
herds from which to choose. Every practical man, too, knows that a cow hardly ever does her best when
changed to a new stable, under difterent environment Changed to a new stable, under different environment
and attendance, so that what, with risks of being bitten," loss in accustoming the cows to new condi-
tions, and lack of opportunity for improvement, sys-
tematic purchase to renew the herd is very poor zusi tons, and lack of opportunity for improvement, sys
tematic purchase to renew the herd is very poor zusi-
ness. The sesame to successful dairying is good cowsness. The sesame to successful dairying is good cows-
much better cows than are common in the country to-
day-and the only way to get them in reasonable num-day-and the only way to get them in reasonable num-
bers is to raise them in one's own herd from the best
cows (selected by scales and test) bred to a good dairy

How to Secure a High Ouality of Chees and Butter
Producers of milk and cream would serve their own
interests to consider carefully at this time the facilities
afforded for the manufacture of a first-class product by afforded for the manufacture of a first-class product by during the coming season. The Ontario Government Was engaged a staff sufticient to give instruction at a
very muderate cost-less than one-half the actual out-多-tio ull creameries and factories which make appli-
$\qquad$ the proprietor or manager secures an instructor to give
monthly visits aud point out to the maker mistakns in methods, suggestions as to improvement in quality so as to mret the demands of the market as nearly as
possible, defects in equipment, the need for cleanliness, the necessity for proper temperature in curThe instructor will also make it his business to test Che individual samples of milk, not only for the butter By taking a small sample from each lot and making a
curd test, the instructor is able to detect the iot or lots which are causing trouble in manufacture. He ver
often finds that trouble arises from milk produced by often finds that trouble arises from milk produced by
patron who has the best of buildings, and is apparently following the most up-to-date methods in cooling and caring for his milk. A rusty can, or one with seams
not properly soldered, musty surroundings, proximity to not properly soldered, musty surroundings, proximity to
hogpens, etc., may be causes of contamination.
Hogpens, tanks or câs in which to gather cream, the assurance that the cream gatherers understand theit
business thoroughly credit, are of vital importance to patrons of creameries. Instructors will also be prepared to visit the tarm and instruct the producers as to the best methods
in setting milk for of separators, proper utensils, washing and care of separators, the proper thichness of the croam, the
necessity for keeping all cream sweet until called for by the gatherers, etc.
Do you wish to have the services of an experience
man who is devoting his whole time to the work man who is devoting his whole time to the work to
give advice and instruction to your maker as well as give advice and instruction to your maker as well as
to yourself througbout the season ? If so, see that the proper party makes application for an instructor at
onove. This is a duty which every producer owes to
himselt himself, as well as to our most important agricultural
industry. If the place which we now hold in the industry. If the place which we now hold in the fo
eign market is to be retained, greater eflort must b
put forth by both put forth hy both producers and manufacturers to see
that the quality of the product is maintained and im proved. $\mathrm{Applications} \mathrm{for} \mathrm{instruction} \mathrm{should} \mathrm{be} \mathrm{made} \mathrm{as} \mathrm{fol-}$ Applications for instruction should be made as fol-
lows. For places east of Toronto, G. G. Publow,
Kingston; for places west of Toronto, including the

## Cheddar Cheese Making.

Milk that has more than 2 of 1 per cent. lactic acid
should not be received for cheesemaking. Unless milk is occasionally stirred while it is being
received and ripened, the cream will rise, and by mixing it with the milk again some of the cream will be
come churned, therelyy losing considerable fat in the come churned, therely losing considerable fat in the
whey. When the mill is all in the vat staam should whey. When the milk is and in the vat steam shound
be turned on and the milk heated to 86 degrees, and
the rennet or acid test made. Milk should be ripened the rennet or acid test made. Milk should be ripened
to a point where in two hours from the time the rennet Io a point where in two hours from the time the rennet
is added the curd will be ready to separate from the
$\qquad$ make a rennet tost and note the condition of the milk.
If milk is found to be overripe, the cheesemaker must If milk is found to be overripe, the cheesemaik is too
hurry to keep ahead of fermentation. If milk is the
sweet, he will have to wait until the proper sweet, he will have to wait until the proper amount of
acid develops. Whan good sweet milk is delivered a not orer too per cent. is needed.
When the milk is properly ripened the rennet extract should be added, allout 4 ounces to 1,000 pounds of
milk. This is diluted in a pail of water, and is poured evenly into the vat from one end to the other. The
water should be at about 86 dogrees.
The rennet gently for five minutes after it is added. The curd is ready to cut when it will break clean
before the finger. Curd should be firm enough to cut
in 15 (1) 30 minutes after the rennut is added, into cules one-half inch square, which is fine enough for
slow-curing cheses. The curd must be tirred constant1y. or it will soon settle and knit togither. turned on ;
to stio five ninuces before the stanu is
then apply stean. slowly at first, taking obout 45 minnwhes 10 raise the temperature from 86 to 98 degrees.
li milk is heated rapldy it requires vigorous stirring 1f milk is heated rapldy it requires vigorous stirring
to hiep particlas from kniting together, and causes Considerable luss in the whey. Whan the milk is overIt is difficult to tell when the curd is cooked enough. There should be oneeighth inch of acid in. The curd
$\qquad$
and will not make solid cheese. The whey should show When the correct amount of acid is developed the Whey is drawn and the curd placed on racks in the end
of the vat and covered with coarse linen cloth. It should be stirred for a few moments to remove loose
whey, and then left to mat ovenly, about six inches deep. In about in minutes it may be cut into large whey from collecting in any part of it. to prevent the When the curd is cooled to 85 degrees it can be put In the press. Pressure should be applied slowly at irst, but in 15 minutes full pressure can be applied
The cheese will be ready to press in one hour. After dressing the cheese it should be pressed until next morndressing the cheese the should me pressed it may be taken out and put in a cooling
ing, when
room.-IAmerican Dairyman.

## POULTRY.

## Another W.-Wyandotte Champion.

the Fiditor "Farmer's Advocate": the "Farmer's Advocate" of the question, for the Farmer?" The White Wyandotte is the favorite here for the following reasons: First, Seconse they are the bestause they are very gentle, good sitter. second, because they are very gentle, good and
and mothers. Third, they are the best for fattening purposes, as they are a plump fowl, and can e finished better at an early age than the Rocks, kept longer. I enclose the record of twelve pure-bred White
Wyandotte pullets for one week, ending March 10th, 1904. puring the week they laid fifty-nine 10th, 1904. During the week they laid fifty-nine
(59) eggs, which, at 25 c. per dozen, gives $\$ 1.28$. (59) eggs, which, at 25c. per dozen,
During the week they consumed

23 lbs . wheat screenings, at 80 c. per bushel 25 c .
28 lbs . boiled potatoes, at 40 c . per busholl.. 1 co . 3 lbs. Wheat bran
1 gallon skim milk
gallon skim milk
peck raw potato
making a total cost of 52 c ., leaving a balarice of 1 c ., or nearly 6c. per hen per week.
These pullets were hatched the latter part of April, and began to lay in November They are fed as follows: In the morning, mashed potatoes and bran, with milk to arink. At noon, raw potatoes or turnips, and
the dinner scrans. In the evening, they get all the grain they need, thrown in litter on the floor. They also get crushed oyster and egg shells, and
all the water they will drink, and always have a box of ashes to dust themselves in
Last season I raised about sixty pure-bred chickens. The cockerels were fattened and marketed at four months of age, and brought in warm house, and it could only be cleaned out twice during the winter on account of the manure being frozen. But these hens are the very picture
of health. From twonty hens in 1904, I sold $\$ 41.50$ worth of eggs. Now, if any person with Leghorns can beat White Wyandottes, either as layers or for market,
et us hear from them. NOIPMAN C. McKAY. pictou hear from. N . S .

## The Breeding Yard.

The importance of strength and vigor in fowle composing the breeding yard is quite of tem overooked or given less consideration than it, should receive. Too much attention cannot be paid to
selection for strength and vigur. Without this our best varieties of pure-breds would soon degenerate into mongrels of the poorest kind. The
selection and mating of strong, vigorous fowls, selection and mating of strong, vigorous fowls
with some definite object and some notable im with some definite object and some notable im-
provement in view, is what can only properiy be called an up-to-date breeding yard.
Farmers, as a rule, do not pay
Farmers, as a rule, do not pay enough attening of their breeding birds. On the thoroughness with which this is done depends the success o failure of the season's work in the poultry vard.
Where haphazard methods are followed the results Where haphazard methods are followed the results tility in the eggs, and later on in the mortality of the chicks, thus causing a double loss in the very beginning. Were, instead, intelingent and ing a pen of a limited number of fowls of uni form size, shape and color, headed by a strong,
vigorous male a purc-bred bird-the results would far exceed the extra labor and expense involved. The male bird repres thts half the flock, and should by all means he pure-hred. The females, even with a flock if common or good grade hens can he accomplished by using
By selecting twelve or fifteen pullets or yparling hens of the best layers, having a vigorous male of your choren variety, , Wood
short time, Working along these lines, the im- GARDEN AND ORCHARD. returns from a a breding yarr of pure-bred. blrds
will, however, far exceed those from will, however, far exceed thuse from a yard of
common fowls, as the eggs can be sold for hatching at very good prices, and the surplus stock disposed of for breeding purposes.
Waterloo Co., Ont.
M. C. HERNER.


#### Abstract

\section*{Leghorns vs. Wyandottes.}

To the Editor "Farmer's Advocate": I notice you give results of a laying competition of the Utility Poultry Club, of England, the last of such competitions being won by White Leghorns. Would you allow me to point out the fact that the Leghons never enter enter any comfact that the Leghorns never enter enter any com- petition that I have heard of, unless under the petition that I have heard of, unless under the disadvantage of being confined to a yard? It takes half the life out of a Leghorn to deprive it of its freedom, just the same as it does with a turkey. Mr. Parker, in replying to my last turkey. Mr. Parker, in replying to my last letter, tries to show the Leghorns are no good because they are not shown as largely as White Wyandottes. Mr. Parker probably knows that Wyandottes. Mr. Parker probably knows that nine-tenths of the chickens at the shows he has nine-tenths of the chickens at the shows he has mentioned are owned by residents of cities, towns or villages. I was not claiming that the Leg- horn was the best for those people. Further, he says because Australia and New York State have but Canada is too cold for them. I plead guilty to not knowing much about the climate of Auswish to quote from an article by Robert $H$ Essex, a well-known Canadian poultryman in the early nineties, and for many years associate editor of a well-known poultry journal. Mr. Essex is writing about the Columbia School of Poultry Culture, at Waterville, N. Y., and says:" poultry culture can profitably be carried on at Wat- erville (looking at it from a climatic point of erville (looking at it from a climatic point of view), there should be no difficulty in the successview), there should be no difficulty in the success- ful raising of poultry in any cold climate, for last winter the snow covered the bank of one of the brooder houses on the plant up to and over the roof, and the temperature reached 50 degrees below zero within ten miles of the village, and at Waterville it was colder than 40 degrees several times during the winter." This refers to the times during the winter." This refers to the tion of reading that the winter of 1903-04 was the coldest they ever had. Will Mr. Parker please give the Canadian temperature in any place, to which the above can be compared as mild. Would conclude by saying one of the large Leghorn-egg farms I mentioned is situated at Waterville,


 Simcoe Co., Ont
## Hen Manure as Fertilizer.

 Is hen manure better as a fertilizer than thecommon barnyard manure? If the droppings taken from dropping-board were nixed with the litter and let heat, would it affect the fertilizing
value? Huron Co., Ont.
Ans.- Hen manure in the fresh state contains
from 50 to 60 per cent. of water from from 50 to 60 per cent. of water, from 1 to 1.5
per cent. of nitrogen, and about. 5 to 7 per cent. each of phosphoric acid and potash. Farmyard manure will contain from 65 to 80 per cent. of water, from .45 to .65 per cent. of nitrogen, from
.4 to .7 of patash, and from 2 to 4 per cent. of .4 to .2 of patash, and from .2 to .4 per, cent. of
phosphoric acid. It will thus be seen that, hun-
dred for hundred, the hen manure will contain a dred for hundred, the hen manure will contain
little more than twice as much nitrogen and pho little more than twice as much nitrogen and pho
phoric acid, but practically the same amount potash, as farmyard manure. The fertilizing col
stituents of the former will be a little more in mediately available to the plants than that
tained in the latter. taine in the latter.
from the dropping-board with mixing the droppings other hand, there will be a greatcr danger of loss on some of the nitrogen constituents.
Ontario Agr. College.
R. HARCOURT.

## Relief of Crop-bound.

I have been watching with interst the items on poultry in jour valuable paper, especially
on the Leghorn, which, as a rule, head the list of egg-producers.
father and I performed on a Minorca which was crop-bound. I had been a giving my flock long this particular, hot have her food she swallowed the long straw, which rolled up into a ball in her
crop, thus preventing anything from passin crop, thus preventing anything from passing
through, even water. With a sharp knife we opened her crop, took out the water, oyster--thells,
gravel and straw, and sewed it up again with silk gravel and straw, and sewed it up again with silk
thread. I fed her on soft feed for a week, ther thread. I fed her on soft feed for a week, then
wheat and corn. She is living, and lays woll I would not hesitate a moment in tr
ame experiment in a case of that kind.
If yon an find space for this it may prove
youn tan others interested in the poultry busi-

## Bridge Grafting

Enquiries reveal that a certain amount girdling of fruit trees has accurred again the past girdning of fruit trees has occurred again the past
winter, though, fortunately, the damage does not
seem to be nearly so extensive as seem to be nearly so extensive as a year ago
The accompanying cut illustrates a method of sav The accompanying cut illustrates a method of sav
ing girdled trees almost. unfailingly. First ge ing girdled trees almost. unfailingly. First ge
some rather long grafting twigs. When the bark begins to loosen on the trees make a T-shaped incision through the bark below, and an inverted
$T \mathrm{~T}$ above the girdled space, the horizontal slit in each case to be about an inch from the alle of the girdled part. Cut the bridgegraft about three
inches longer than the cross-cuts of the apart. If the bridge is a little curving, so much the better. Bevel off the curved side at both ends, say one inch back from each end. Bevel the bark part of the bridge, say half an inch back,
by making a cut on each side, so that the end

may be somewhat three-sided. Insert the lower end of the bridge in the lower $T$, holding the left far.. Keep the thumb there, bend back the bridge and slip its upper end under the bark of the upper
incision, pushing up firm, but still leaving a slight curve in the bridge. The curve prevents the bridge drawing out when the wind prevents the
tree. Waxes the tree. Wax each end firmly over, and mound up
with moist earth as high as the bridges reach with moist earth as high as the bridges reach. If
the girdled band is wide or high up, wrap the bridge with grafting-cloth strips, made by dipping cotton strips two inches wide into melted grafting-wax. If the earth mound is used, re-
move it about July. If the girdling is all around
the tree, use two bridges, one on cach cide

## Apricot Blooming.

way of keeping Harley, Ont., asks if there is any bloom so arly an apricot tree from coming in soms in spring. He also wishes information as o spraying.
Ans.-In frosty localities there is great diffl culty in getting the apricot to fruit, but if the
tree is placed in a somewhat backward exposure the blossoms may be retarded somewhat. This exposure may be created by building a shelter which must not face the West or South, else early sult. An overhanging cornice built out from this wall, to which matting may be fastened during
a cold night, will be found of value in protecting rom frost. The most serious enemy of the apriring the trees frequently, carly in the caught by jarthe insects being caught, as they fall in sheets placed below. This operation should be done
every day or so from the time the llosssoms fall, as the insects are numerous enough to damage

Always Improving.
 is always improving. cspecially since say has been
pultished wehly.
Chateaumeny

## Imperfect Cold-storage System.

Sir,-In your issue of the 9th instant, Mr. Linus Woolverton has a most suggestive letter on the "Fruitgrowing business." He forclbly impresses the fact that ruit-growing is not all sunshine. The truth appears ary farming and the opporlunilies for losing mor s well as for making it, are correspondingly gret I would specially commend his suggestion, that fruit growers unite in co-operative selling associations. It will be impossible for grape-growers, or growers of any other kind of fruit, to fix a minimum price until they ave a fixed and consolidated organization that will tand behind these prices. The very first step towards xed minimum prices is to organize so as to get a least, a large majority of from each grower, or, at lorced to stand by the prices fixed by the co-operative body.
Fruit
Fruit-growers should also take to heart his suggesons with regard to cold storage. That the cold-storThe only part of the system that is thoroughly in spected and about which we can speak with confidence is the cold storage and ventilated chambers on board steamers plying between Montreal and St. John and the poris of Great Britain, Much of the fruit is examined as it goes into the chambers of the steamers at Montreal and Halifax, and Its condition is a matter of record made by men who are thoroughly competent and who can have no personal motive for partiality. The temperature of the chambers is teated independently by officers of the ship, and also recorded automatically by thermographs that are never accessible to the offcers of Department of Agriculture, Ottew, where the at the consulted at any time.
These records show that of the 35 or more steamers These records show that of the 35 or more steamers
having cold storage or ventilated chambers, none made any serious fallure the past three years. The slight apses frifem perfection have been so few that we can
confidently say that the safest period in the life of the fruit, from the time it matures until it reaches the con-
sumer, is on board ship. This naturally turns our attention to the other links Cars and cold storage as it is named on the fruit farms. At the present time there is ilttle or no supervision of
refrigerator cars carrying fruit, except that made by reffigerator cars carrying fruit, except that made by
officers of the companies, and there is at least a doubt an
is to whether all the conditions of first-clase trans portation facilities are furnished by the rall ways, but
we cannot speak confidently upon this point until such time as we have independent inspection by Government officials.
Wruit farms, and here we come to cold storage upon the rruit farms, and here we can speak with some confl-
dence, because not one fruit-grower in dence, because not one fruit-grower in a hundred has
any faccilities whatever for cooling his fruit before placing it in the refrigerator or ordinary car. Here is a real and glaring defect in our transportation facil-
ities, the remedy of which lies with the hies, the remedy of which lies with the fruit-grower
himself. Improvement in this matter would do more than anything else to ensure the quality of our fruit when landed upon the English markets. It is, therefore, incumbent upon the fruit-growers of Canada to
provide for themselves an efficient means of cooling. provide for themselves an efficient means of cooling,
and packing while the fruit is cool in proper packages the fruit which they deliver to the transportation comPanies : and until such time as we do this, it is with poor grace that we criticise the suspected fallures of
the railways or the facilities of the Canadian steamship companies, which I have no hesitation in saying are better for fruit than those that leave any other AtlanChief, Fruit pivision

Ontario Vegetable Growers Organize At an organization meeting at St. Catharines,
the Vegetable-growers' Association, of Ontario, prising those present at the meeting and a hoard of officers consisting of President, Mr. Emery, Aldershot: Vice-Pres., Jos. Rush, Humber Bay
Secretary-Treas., H. B. Cowan, Toronto three executive officers were appointed a commit tee, with power to add to its numbers, to inter-
view the Minister of Agricult $\begin{array}{ll}\text { ciew the Minister of Agriculture, (1), for a Gov- } \\ \text { ernment grant ; } & \text { (2), to ask that the Provincial }\end{array}$ ernment grant: (2), to ask that the Provincial
Fruit. Flower and Honey Show be extended to include exhibits of vegetables; (3), that the
Professors of the O. A. C. should be instructed to arry on the O. A. C. should be instructed
reests which are a sourcens in regard to insect

The objects of the Association, as set forth in the constitution, are educacational. as set forth in
informs us that there are already filt informs us that there are already filteen or twenty
local associations throughout the Province, most of which intend throughout the Province, most
ion then inmediately, on a basis as suggerial Associa-
tion by the

APRIL 6,1903

Hints on Strawberry Growing. Strawberries succed best on rich, well-drained
soil which will not bake easily. Thorough preparation and heavy manuring will give best re-
sults.
Seldom, if ever, are strawberries to heavily manured. There are many systems of
growing plants, but for those who are not strawgrowing plants, but for those who are not straw-
berry growers and even in most cases for those berry are, the matted row is the best. Plant
who arly in the spring when the soil is ready, setting early in the spring when the soil is ready, setcing
the plants from eighteen inches to twenty-four inches apart in rows three and a half to four
feet apart. Give thorough cultivation during the feet apart. Give thorough cutivation dur is kept
growing season. The loser the surface soil
the better the results will be. Place the runners, if the better the results will be. Place the runners, if
possible, so that they will be evenly distributed possible, so that they will be evenly distributed
in the row. If the plants are kept at least six inches apart the results will usually be better
than if closer. Mulch lightly just before winter than if closer. Mulch lightly just before winter
sets in, and after the ground is frozen cover with sets in, and after the ground is frozen cover with
coarse straw or marsh hay. Frequently this will save the plants in thawing and freezing weather
without snow on the ground, when otherwise they without snow on the ground, when otherwise they
would be killed. Remove mulch in spring before plants begin to grow and place between the rows. It may smother the plants if let too long. Bubach, Greenville, Lovett and Beder Wood as among the best. Williams, which is probably
grown more than any other variety for long-disgrown more than any other variety for long-dis-
tance shipment, came twenty-ninth in yield in the four, years' average, at the Central Experimental
Farm. It is, however, one of the best for this purpose.
The Sample (imp.) is undoubtedly another of
the best commercial strawberries on the markot the best commercial strawberries on the market.
It is very productive, handsome, and uniform in ed and moderately firm. Segson medium to late. Quality, medium. Although not generally
late.
known, the Buster (imp.) is another fine variety kne
know, the Buster (imp.) is another fine variety.
It is very productive, and the fruit, which is Iarge, maintains its size well to the end of the
late
season. The color of the fruit is pale glossy red, much like Clyde in appearance. Moderately rim. Quality above medium. Season medium one of the best of the older varieties, being very productive and attractive deep red in color. It
is one of the best kinds for canning. The foliage is one of the best kinds for canning. The foliage
is inclined to rust sometimes, a fact which is
somewhat against it Glen Mary (Perf) has for somewhat against it. Glen Mary (Perf.) has for years been one of the most productive varieties
with us. It combines great productiveness with ery large size of fruit, the fruit remaining large ather irregular in shape, bright red, moderately rather irregular in shape, Sright red, moderater The
firm. Quality medium. Season, medium. Tainst this
irregularity of the fruit is somewhat against W. W. MACOUN.
varientral Experimental Farm. Worticulturist
v.

## Orchard Cover Crops


luring the winter. Prof. Shutt said that hairy vetch theoretically supposed to be a panacea for all
is the next best legume to clover for a mulch crop in
an orchard. It would not stand cutting, but he did not consider that a serious objection, providfing the
method as or clover was followed. Ho pointed out nethod as for clover was followed. He pointed out
that soil kept under sod loses very much more moisture than it would do if it was kept cultivated and sown with a cover crop. Neither should a cereal crop be
grown in the orchard, owing to the fact that it serigrown in the orchard, owing to
ously depletes the soil's moisture.
He reported the results of an experiment growing
buckwheat and rye in an orchard. He found that from 100 to 120 per cent. more moisture was lost per ncre where buckwheat and rye was grown than where
the soil was kept well cultivated. He advised sowing
the cover crop in drills rather than broadcast, and said the cover crop in drills rather than broadcast, and said after the corver crop has been turned under. Speaking about fodder corn grown in hills and drills, he said that the iodder is slightly more valuable when Dent varieties gave three tons per acre more than the Flint, and he referred to the Longfellow as the best
Dent variety. He said corn should be cut when it commences to glaze. At that time it contains the
largest amount of nutrient, and at the same time the largest amount of nutrient, and at the same time the
best composition as regards digestibility. If cut later it becomes hard, and to some extent impaired in its
feeding value. If cut before reaching the glazing stage the corn is watery and not valuable as "ood. Ho
pointed out that frozen corn should be put into the silo pointed out that frozen corn should be put into the silc
immediately after freezing. If it is wilted very much on Immediately after freezing. If it is wilted very much on pack tightly. In reply to a question, he said that the
feeding value of corn is not infured because it gets smashed up in a blower. The finer it is the closer it
will pack smashed up the less
will pack, the silo.
loss in the

## The K. L. Mixture.

A new spraying mixture is the kerosene-limoid lime and water. Limoid is dry-slacked magnesian limestone, prepared by grinding, dry-slacking and sifting good stone lime, which should contain less than five per cent. magnesia. The mixture make a covering on the tree resempt.
Kerosene is the killing agent.
A method of dry-slacking lime was suggested recently by Prof. M. B. Waite, of the Department
of Agriculture, at Washington. The stone lime of Agricuture, at all
is broken into small pieces, and a small portion is put into a wooden box; upon this lime is sprinkled a little hot water, and when slacking is nicely started the balance of the thrown over the box to keep in the heat and steam, which cause
the entire amount of lime to slack into a dry impalpable powder. This should be carefully ready for use. To make K-L, the kerosene and lime in proper
proportions are thoroughly mixed together in a thin, sloppy mass, and should any kerosene separate out, a little more lime must be added. One
pound of lime will take up or absorb one quart of kerosene, and in this proportion the mixture Should always be made; that is, The required amount of water is then added to dilute to the desired strength, and the whole mixture is at firs stirred with a paddle to throw al ofter. It is
py " mass into suspension in the water then agitated violently with the spray pump and hose for from three to five minutes, depending up on the form of lime used. This is neeessary t
form an emulsion, out of which the ofl Whll no separate. It is best to have an extra barrel in which to mix the kerosene and lime, unless the top of the spray pump barrel is easily removed
Pour in the kerosene, add the lime and stir with Pour in the kerosene, add theroughly mixed. Add a few gallons of water and stir again, to throw the "sloppy ". mass into suspension in the
water Pour this into the spray pump barrel water. add balance of the water, and pump back in to itself for from three to five minutes. Like all other mixtures, this should be agitated while be-
ing sprayed. ent strengths. The following formulas show the amounts of the various ingredients for different
strengths of the mixture :


 | 381 |
| :--- |
| 34 |
| 1 |

After standing, the lime holding the kerosene
settles to the bottom of the vessel. This does no harm: agitate and the mixture is as good as pever. If standing more than a day or of water. This may be restored by addition of more water.
$\mathrm{K}-\mathrm{L}$ is an insecticide for sucking insects only, and © especially recommended to conulsat San Jose scale. mixture may be made by simply using Bordeaux
mixture instead of water. By first adding Paris green to the Bordeaux, a K-Ir-B-P (kerosene-lime
Bordeaux-poison) mixture is mahe. This is


#### Abstract

orchard pests. For use during the growing season, it is safe a apply 10-per-cent. K-- to apples, pears, peach o apply 10 -per-cent. K-L to apples, pears, peach- es, cherries, quinces, currants, etc., and from tests made it seems safe to recommend $12 \frac{1}{3}$ per cent. on all these fruits, and 15 per cent. on apples and injury may follow, but is preferable to the injury caused by the scale. In the dormant season, a strength of 25 per cent. has been used on plums, pears, peaches and apples. Though the K-L mixtures have been tried only one season at the Delaware Experiment Station, from a bulletin of which this account is condensed, it promises to prove very effective in combating scale. It has rove very effective in combating scale. It has roused much favorable discussion, and more exaroused much favorable discussion, and more tensive tests are likely to be made this season.


## The Fruit Institute Addresses.

The branch of the series of fruit institute metings,
nductord by delegates $A$. nd P. J. Carey, Dom. Fruit Inspector, opened March 22nd, at Ingersoll, with a four-hour afternoon session. Mr. Sherrington, the first speaker, gave an excellent plea for co-operation in marketing. The aim of the fruit-growers, he sald, must be to produce a larger percentage of a better class of fruit. The first essemial is thorough cultivation, and giving the troes the
full use of the land. In a young orchard hoed cropa and clover may be grown, but never grain ; in the bearing orchard we should look for nothing but fruit. Apples from an orchard in sod, may be better colored, but they will not have the size, and the trees will not pro-
duce nearly so well as under cultivation. General blanting of large orchards was not advised, but we bould take better care of the trees we have.
We must attend to the pruning; nature can prune forest, but not an orchard. Spring pruning was ad-
fised, to save time and also plant food that would Nised, to save time and also plant food that would
therwise go to produce the growth lopped of. The speaker advised cutting large limbs when necossary in early spring, painting the wounds a lew days later. Use
a fine-tooth saw. with teeth on one side only, and out close to the main limb that the wound may heal more Auickly. Avoid cutting large limbs if possible, but ree
fuye them if in the way of cultivation. The saw in
nover nove them if in the way of cultivation. The saw is the knife has been neglected. In pruning young, newlyset trees, leave three or four arms, never two. In older trees, cut out all cross-growing branches, and atha symmetrical head. Try to the pranchen etarting out all around the tree, and don't cut the heart stand it at all. Try to produce six or eight inches of new wood growth each year. To retard growth withhold nitroenous fertilizers, supplying phosphoric ac
instead, so as to induce frult produetion.
Heading in of young apple trees was advised. In
oing so do not cut back past the last seasom's growth else water sprouts may grow out around the wound. Cut so as to leave a bud at the end of the pruned wig. The common Ontario system of pruning is to
trim the limbs up clean and leave a small buahy top (rim the limbs up clean and leave a small buehy top.
This is wrong. The fruit spurs should be distributed throughout the tree. After pruning, take the ladder and cllippers and thin out the small wood. Prune annually, but do not hesitate to use knile or cllppers three main elements of fertility-nitrogen, phosphorid acid, and potash. Natrogen enters largoly into wood growth. Phosphoric acti is abundant in the soed. ing orchard, for both wood growth and fruit. arn bearn yard manure supplies the three, nitrogen usually m ex cessive proportion. Supplement it with 80 or 40 will supply potash and a little phosphoric acld. © Bone meal or ground phosphate rock will provide more phosphoric acid. If ashes are unobtainable, use murfate of under clover using those mineral fortizzers, and plowing be largely dispensed with. In reply to a question,
good ath good ashes were worth
not be bought for less.

Will heavy winter. buds in spring ?" was a question answered with the emphatic negative. There is sufficient sap in the top $t_{0}$ start them into growth, and warm weather will Cultivate, first, to conserve moisture. Mulching would do this also, but cultivation is preforable, because it keeps the feeding roots at a safer distance below the lets the heat and air down into the soil food, and Mr. Sherrington outlined his own aystem of orchard curtuadion. He plows early in spring, as soon as the
ground is to work, harrowing the same afternoon with the harrow, to compact and pulverize the soill.
Alter this frequent use of disk and smoothing harrow After this frequent use of disk and smoothing harrow until the Cessation at thls period checks wood growth and allows the wood to mature well belfore winter. He
used to sow a clover cover crop in August, but has used to sow a clover cover crop in August, but han
been obliged to stop dolng so, as the orchard was geting so rich, especially in nitrogen, that it wan
growing too much wood. Slace breaking up thie sod
in his orchard and
had good paying cops.

- alling Coperation.

In selling the fruit, co-operation enables us to ge the best prices, though co-operation cannot get first
class prices for cull stock. By co-operation we canno only obtain better prices, but we can get the grower
interested in his products till they are in the con interested in
sumers' hands.
In the co-operative society at Walkerton, a central
packing-house hal been established, packing-house hat been established; an expert packer is engaged, also a manager. Apples are ppicked, emptied Into barrels, gently packed, and hauled in hayracks well
alled with hay. At Walkerton last year some were hiled with hay.
Barrels should be cared for and kept clean. Reaching
the market in tasty condition they will realize the market in tasty
25 cends a barrition they will realize an extra
coll fictory should be established to utilize culls. At Forest last year these were sold to an evaporator for a su which paid 8 cents on each barrel of fruit shipped. given on the books for the number of barrels credi grade. All except 800 barrels were sold f.o. o. of and
 at once, and what was left of the remaining twenty pai was subsequently divided.
rington ; it is commatsoion business," sald Mr. Sher
Ington; it is unbusiness-like and ruinous to shippers once we get these co-operative packing companie
established, and purchasers know we are producing large quantity of good well-packed fruit, we will sel
our fruit our fruit easily and get much better prices. Within the
next five years he expected the whole next five years he expected the whole apple crop of On
tarlo to be handled by these societies. The secret of good prices is uniform grade of honest goods.
Packing may be done in any old buifling Packing may be done in any old buflding that will
keep the apples' dry. At Walkerton they hired help by the day. Barrels cost 41 Wailerton they hired help by the day. Barrels cost 41 cents, packłng would prob

ably igure out to less than 15 cents. There were 5 | members. |
| :---: |
| Mr. |
| . |

eneral P. J. Calk, answering Dominton Fruit Inspector, gave general talk, answering many questions. Last year, in
a trip out west, he found the dealers very hard on Ontario frutit men, who were said to be all rascals. He had returned the compliment, by telling them we re garded them as all thieves. After threshing the matter at the door of the transportation companies. Was laid
quently quently, through the appeal to the railway commisslon of small fruits to $\$ 80{ }_{a}$ car. The Northwest will never be much of
ry, and we have a growing market open to us there, -operation is the means of making the most of it.
He advocated boxes for chocice fruits. e desirable for the Northwest trade. Cost is should he same, proportionately, as barrels-about 11 cents a piece. At Walkerton they cost about 18 cents. Boxes carefully ; transportation rates light, are handled more silightly less than in barrels. Barrel timber, too, is etting scarce and high, so that there will be an annually increasing economy in boxes. Kings, Blenheims, packed-tiered, not simply faced-in boxes.
The meeting throughout was largely of the nature o ilscussion. Among other speakers, Mr. Thompson, a co-operation, stating that it had for years in advising him the only satistactory way for the farmer to realize on his apple crop
delegates Johnson and gifford
Another branch of the series of meetings was con-
ducted by Delegates D. Johnson, of Forest. President of the Forest Fruit-growers' and Forwasding President tion, and A. Gifford, of Meaford. One of the point included in their tour was IIderton, where a special in in this locality the pact summer with firh had been tried results. Speaking here, Mr. Johnson opened with an account of his own extensive experience in orchard cul-
ture, especially spraying. From his account the striking statements about the Johnson orchard, published in our issue of March 23rd, were rather. under than above
the mark. In their location along the lake they have found spraying an absolute necessity not only for apples, but also plums. Many convincing instances
were cited. About twelve years ago, one seanon their
plum crop was almost completely destroyed by black rot. The next year they sprayedy destroyed by black about 1,200 bushels, at $\$ 2.25$ a bushel. They have from a number of trees, situated on a hillside where
spraying is impracticable, they never aypert spraying is impracticable, they never expect any good
frult. The plums are sprayed for black rot and curculio. The apple orchard is sprayed about five times a season. Last year they spent about 14 weeks time
in spraying. TTey commence in April with copper sul-
phate solutin, phate solution, 2 lbs. copper per barrel of water. . Ust
hefore the blossoms open Bordeaux is applied. 4 los. hefore the blossoms open Bordeaux is applied, 4 lbs.
copper and 4 to 6 tbs. lime, with 4 ozs. Paris green
hidded. Some tender foliage varieties are spraved ditcopper and 4 to 6 los. lime, with 4 ozs. Paris gren
anded. Some tender foliage varieties are sprayed dif-
he blossom end is closing up. All the cause of disdoing the work intelligently, thoroughly and at the right time. He had found
burgs, Snow apples and other given up hope of ever having clean with Spltren-
ich they had thorough spraying worked wonders.
bandaged trees for codling moth he
simply spray."
Mr. Johnson's remarks on co-operation covered The same ground as the article in the "Farmer's Advo ate above referred to. He laid special stress upon
the necossity of sending a competent salesman out. to introduce the brand. The Forest Association now have
a bustness connection and reputation which a business connection and reputation which constitutes valuable stock-In-tradi. He also advised a limited
membership, as those with inferior fruit, poor varieties, and mostly seconds, were a detriment to any association. It is unfatr to link up a poor grower with a good one. Spraying and prop
be insisted upon all round.
In the matter of barrels, the scarcity in 1903 docided the growers to go out and buy the material for barrels earry in the season. This they did, getting else. They had them made up at home by a skilled cooper anxious to make a reputation with the association. The barrels cost 28 cent
ones Mr. Johnson had ever used.
ones Mr. Johnson had ever used.
Some discouragements were met at varlous all through the season, but by sticking to it and doing the best they knew how all along, co-operation panned barrel more was realized on the average than would have been otherwise obtained. The saleeman met keen opposition out West in soliciting orders ; as buyers were sceptical about the goods, as they had been so often
decelved. Consequently, after the indial orders were filled, apples began to pile up in the warehouse, until the first lot reached the purchasers, whem orders began to pour in by telegram, proving that there is a good market
packed.
Grading was done by girls, at $\$ 1.00$ per day, $\$ 1.50$
when working evenings,
Although inexperienced any slow at first, they gradually became expert, so that an ordinary fruit-grower, had he been privileged to do the
packing himself, would have been oblliged to work for
about 75 cents doout 75 cents a day, to p
but owing to del crab apples had been sent out West but owing to delay through the transportation com
pany, it did not arrive in good condition. By means of a provincial cold-storage system, crabs should find a good market out West. At Forest they expect this
year to pack Duchess, Astrachans and some other fall varieties in boxes.

| To a question whether he had found a desire among |
| :--- |
| Toperatlve nsenciations to | co-operatlve associations to confederate, Mr. Johnson

answered yes, and Chiel McNelll, of the Ottawa Froit answered yes, and Chief McNelll, of the Ottawa Fruit
Division, was willing to assist in advertising the move ment in the Old Country, with a view to inducing buy ers to come here and purchase f. o. b.
In organizing a co-operative society, select the direcIn organizing a co-operative society, select the direc
tors. leaving them to choose officers from among them
selves. tors. leaving them to choose offcers from among them
selves. In forming the association, be careful to in
clude only good fruit-growers, and let all members stand clude only good frut-growers, and let all
by the directors. Work patiently along
hy the directors. Work patiently along, and do not
expect everything to be perfected the first season; be
expect everything to be perfected the first season; bo
content to profit by experience. Those who rush into
co-oporation
co-oporation as a bonanza are not the kind of members
who are wanted. Far better to begin with a few mel who are wanted. Far better to begin with a few med
and grow, than start with a hundred and dwindle and grow, than start with a hundred and dwindle.
Better a dozen good co-operators than a hundred indifferent patrons. It was advisable to procure acharter Last year at Foreat the directors financed the associa
tion at first by giving note to the bank for some $\$ 350$. Which kept things rumning till returns began to com.
in. Mr. Tohnson belleved that co-operation come a general belleved that co-operation would be
Agriculture, was favazable to Monteith, Minister of Agriculture, was favorable to the co-operative packing-
house system, and anxious to further it. Apple dealers mere getting on to the advantages of central packing, and had approached him of joint stock company, so as to make some money out of the growers, instead of a mere salary. Farmers
should take the hint.
Mr. Gifford's practical address was abbreviated for lack of time. An orchard culture
points, he advised planting all varieties. many other points, he advised planting all varieties, even self fer-
tile ones, in alternate rows. The fruit will be better
formed formed as a result of cross fertilizing. He had a good
word for the Ben Davis, which. grown on rich don
 orchard was on a blackish swale, and bet ween lisn
navis here and on the hillside there was no comparison.
A caution wns offered against grafting a Pasterowin.
 five the orchard the benefit of all the fertlity in the Cunsumptive good quality "一- Prairie Farmer.

 somes , out. another application just before the hlow
results of last season belng, on the whole, satisfactory
it is possible that a system of co-operation in selling It is possible that a system of co-operation in selli,
$\qquad$

## APIARY

## The Farmer and His Bees.

## has to dhe stock with which the farme

 generally is as that most industrious of all creatures, th honeybee. Many farmers keep a few "bozesbees to supply their own tables with honey bees to supply uch a way that they obtain abou the poorest possible returns from them with maximum amount of labor, and have little more
control over their, bees than they have over the wind that blows the apples off their trees. This condition of affairs is often traceable to the fact that the farmer "got started " keeping bees in ed to him that he put his bees on a business basis, as he keeps or should keep the rest of his stock Frequently the start is made by the farmer or some member of his family catching a runaway apiary or somewhere, and which happens to come onto the premises and is hived somehow or other -not one who has had the experience can generan old nail keg, soap-box, hen's nest, or what ever apparently most suitable thing the captor of the runaways may happen to fall over in his excitement. He probably gets a fair average and sets his prize in the orchard until fall, when if he decides to winter the bees, they are carried the spring, if they have been so fortunate well in have secured sufficient honey the previous summer to supply them with food during the winter Up to this point the budding apiarist has done
very well, and about all that could be expected of anyone who knows practically nothing ahout bees except that they can sting and . " make honey "; but right here is where he should bein to make a proper start in a proper way.
Nincteen out of twenty farmers who have "c into bees" in this way, or by buying a box-hive rom a neighbor: or finding a hee-tree, when the result is about the same, seem to think that they
have no money to spend on bees, that it would not pay them to do so, and that they can get all the honey they want without expense by letting the bers run themselves. Perhaps they can : but heir bees in any way while they adhere to the soap-box method of management, and a small ex-
penditure will cnable them to secure more than nough extra honey to pay for secure more than what is more to the point, to have their y. and most as much and as easily under control as they

## THE FARM BULLETIN

## Water is to be taken from Canada for an irrigation

 State of Montana. Two thousand British immigrants arrived in Toronto the ten days previous to March 29th$\qquad$ United States farmers are warned by the Secretary Agriculture that their wheat fields are failing The Iowa Agricultural College will make instructi
road-making a special feature Largely through the finitiative of King Victor Fn manuel, of Italy, the proposal of David Lubing, of Cali fornia, has taken preliminary effect at Vienna, in the organization of an International Chamber of Agricul-
(ure, to fix and control the prices of pain The annual meeting of the Ontario Good Roads As
sociation will be hald in Coutt House be held in the Council Chamber, old Wednesday, April 12 th, at 2 adrlaide St. Sast, Toronto.
standard certificate plan. Reduced fares on Farewell, Whithy. They Old, exhausted thubark plants may be rejuvenated
logue are dug up and the ronts Irave an eye to and the roach piere. If cut in pieces so as to hill may be furcel in the will again be productive harrel ower it. The leaves will puickly a hea


APRIL 6, 1905
Seed Com Testing.
To the Editor " Farmer's Advocate Sir,-I have just read an article in your, March 30th issue, on seed corn, by Mr. L. H. Newman. His note of warning with regard to the condition
of seed corn is timely and to the point; but his method of testing seed corn, to my mind, is quite too ill means test your seed corn. Even if you have saved your own seed and have it hanging up in the corn-barn or kitchen, TEST IT
In the first place, if you are buying seed corn, much per bushel for it. You will then have some idea of what you are buying; when shelled, you have no idea. Hall of the ears from which this shelled corn came may have been only nubbins; it is not at all likely it has been from selected
ears. Then, if there are any ears that do not ears. Then, if there are any cars that do not suit, you can throw them out and feed to hogs
or chickens. Don't be afraid to do a little culling if not up to the mark. When you have got your one, two or three bushels of ears selected
then pick out 12 or 15 average ears- 20 if you like-shell these and mix thoroughly, and then count out 100 grains in duplicate and put the
to test, as described by Mr. Newman, or in a pan with three inches of good soil kept moist and warm. To keep molst kept warm at 60 to 70 degrees, it will germinate in four or five days. The
sounder the corn the quicker it will start. When germinated, count out the number of good ger-
uninating grains out of the 100 . You then have uninating grains out of the 10. If the first test
the per cent. of germination.
is not satisfactory make a second test. I have known a second thest to give entirely different and body's word as to the germinating quality of any corn. Don't leave this work till a few days be-
fore planting; do it now. Don't think you can teast by the appearance of the corn, even on th thing about it, especially the product of such seasons as the past two or three years. During meetings, I did not meet a single farmer who had meetings, I did not meet a single farmer who ha
taken the trouble to test his seed corn, but I me any number who had planted twice and then go no crop. I also was shown many samples
shelled seed corn that I would not plant upon any shelled seed corn that I would not piant upon sow
consideration. In my humble opinion they sow nothing more than good crib corn, shovelled into a corn sheller and then bagred up. There ha been thousands of bushels of corn sold for see
in this country that was nothing more or, less than good elevator corn. If some fellow came along and bought a cow from you for $\$ 50$. an
he handed you a roll of bills. saying there is you count it for two or, three weeks? You are doing this, practically, when you huy your seed corn.
take it home, and plant without testine. TFST take it home, and plant without testing. TEST
YOUR CORN.

## Mr. Beith's Hackney Sale.

The difpersilon sale, on March 29th, of the Waverley Stud of Hackney horses, belonging to Mr. Robert Beith and appreclative company of admirers of this grand
class of harness horses. The weather was delightful
Then the horses were an exceedingly attractive offering, an Mr. Belth's sourd fudgment and commendable enter-
prise was rewarded by the presence of liberal buyers
from prise was rewarded by the presence of and the United
Prom many parts of the Dominion and
States. No expense was spared in making the vifitory comfortable, a large tent being erected, decorated with
the Union Jack and Stars and Stripes. for use as a the Union Jack and
sale pavilion in case
sale pavilion in case of unfavorable weather, and
sumptuous luncheon provided. With the salering an sumptaous luncheon provided. With the sale
surroundings well covered with shavings, and the horsee
brought out in the pink of condition, nothing was wantbrought out in the pink of condition, nothing was want-
ing to ensure the succems of the sale, as buyers were Ing to ensure the success of the sale, as buyers were pplendid class of carriage horses. Th that so many of the best were bought $t_{0}$ leave the Do minton, our American irie
in the bldding when the
dian-bred Ave-year-old stallion
grand champtonstip at St. Louis and Chicar
 was. Taken by Mr. J. T. Walker. Clarksille, Mo.. a
$\$ 2,300$. Prof Mrotia $\$ 2,300$. Pros. M. Cumming. of the Nova Scotia Agri
cultural College, secured a snap in the three year-old cultural College, secured a snan in the It
Cutre Rosador (imp.) ( 8418 ), at $\$ 1,050$. It there was Another snap it was the purchase by Mr. .-year-old St
of Rlvervlew, Grey Co Ont. o o the thren- W. Cochran
Davld (lmp). -218-, at $\$ 1,175$. Mr. I. Davld (1mp.) - $216-$ at $\$ 1,175$ Mr. L. W. Cochran
of Crawfordsville, Indlana. was one of the largest buy ars, securling some six head of good ones. wisoly selected
The highest price for a mare was $\$ 1,625$. paid by Mr Iay. of New York, for the fine four-year-old M1nota,
Ranth Adalr 2nd. The average reallzed for the 39 Ronkn Adalr 2 nd. The average renitzed for the siand
Giackneys sold was 8855 each. The hanness and saddle horses brought from $\$ 130$ to $\$ 360$ each Following the sale lint of the breoding stock
stallions.
Royal Drewton (imp.) ; J. T. Walker, Clarksville, ${ }_{2}^{2,300}$
 St. David (imp.) ; John Duncan, Riverview ......... 1,175 Lord Meltonby ( 2 years) ; L. W. Cochran, CrawWadle, Ind, castle
Terrington
Bellerophon (imp.) ; J. H. McKinnon.
 Royal Gannymode ( 2 years) ; W. C. Jay, New
York
 mares.
Minona : W. C. Jay, New York

| Priscilla : Dr. Rru |
| :--- |
| Rickell's Heiress |

Terrington Bonnibel (imp.) ; W. $C$
Candy Kitty (imp.); W. C. Jay
Lady Brookffeld ; Geo. MItchell, Clark
Telody ; S. H. Knox, Buffalo, N. Y.
Lady Aberdeen and foal ; W. C. Jay ...
Mona's Queen : Herbert Wells, Palmers
Cherry Ripe ; C. A. Webster, Yarmouth, N. .s
Portla; H. Yates
Wild Mint ; W. C. Jay
Thelma: T. Bennett, Newcastle N
wild Cherry; Hodgklnson \& TMisdale,
Floradora: Geo. Rountree, Toronto
Lady Minto 2nd ; Geo. Mitchell, Newcastle, Ont
Rosalle : L. W. Cochran
Rosalie; L.
WHd Violet..
Wererley Belle
Waverley Belle
Waverley Queen; L. W. Cochran
Waverley Enchantress (1 year): Geo. Miltchell
Waverley Winnile ....
Coquatte ; Dr. Bruce …..................................
$\begin{array}{lll}\text { Pickwick and Waverley Kate (carrlage paif), } & 600 \\ \text { Peverlll (Imp.), Clyde stallion ; H. Yates, Buffalo } & 380\end{array}$

## Kerosene Treatment for Pea Weevil.

o the Editor "Farmer's Advocate :
Six years ago I had decided to give up sowing peas outincount of the pea weerll. but experimented by sene over them, and carefully stirring th through them. I cannot find to-day a sign of a worm or egg. I think
it was in February or early March I tried the treatIt was in February
ment.
Storma

President of the British Board of Agriculture.
Our English correspondent writes that the appoint-
ment of Mr. Allwyn Fellowes, ment of Mr. Allwyn Fellowes, as President of the
Board of Agriculture, has not occasioned any surpribe, as he has acted in the House of Commons as Lord Onslow's representative, with great ablity. Bils appolntment, moreover. mpets the demands of the Cham-
ber of Agriculture for a Minister who has a seat In the Lower House. Mr. Fellowes is a land-owner, and, therefore, should be in sympathy with agriculturists, but, unfortunately, he ls a strong opponent of the

Western Dairy School (Strathroy) Grad uates.
General proficiency and per cent. of total mariks Menzies, 83 per cent; D. H. Welker, 82; L. Chlver-
on, 81 : Wm. Scott, 80 ; in. Jackson, 79 ; Wm. Inch 78 : Geo. Gunn, 78 : E. H. Rell, 78 ; Geo. Beck, 72 ;
M. Box, 69 : E. Wilson, 61. K. McAlpine. 64 .
 Hont.
Home Dalry --Miss Fstella Harris,
80 per cent: Miss

## NEWS OF THE DAY

## Canadian.

Lord Strathcona is in Canada.
Meard Bay becear and ready for naviga

Andrew Miscampbell, ex-M. P. P., the Conservative

The C. P. R. Wllt
Manitoha and the West.
The Ice-breaker Montcalm le maklng good progrees

The Government steamer Minto is oif the rocke, and the Georgetown, P.E.I., whart

Robert Quick, a farmer of Caradoc Township, nea Strathroy, Ont., on March 25th s,
brother Alired, in

Four townships have been reserved for the hali breeds in Alberta, and an Industrial school will be erected for them. The land will be subdivided into 80 acre lots. Victoria University. Toronto, has been made the
recipient of two bandsome donations, one of $\$ 260,000$ recipient of two handsome donations, one or and one o
from the trustees of the Massey estate, and onem $\$ 50,000$, from Hon. G. A. Cox.
Fower from Eugenia Falls, 38 milles south of Owen Sound, is to be utilized for manufacturing and lighting
purposes by that town. The construction of a hugg purposes by that town. The be started at the Falls immediately and will be completed in a year.
The Royal Mall Steamer Parisian collided with the Hamburg-American Liner Albano, at the entrance of Halifax harbor on March 24th. Both vessels were
damaged, and the Parisian had much dimculty in makfing her dock, where she sank a short time after landing hor 700 passengers.

British and Foreign
Seven thousarif armed peasants, plllaging in Russia routed a force of Cossacks.
broken out in the Caucasus. A reign of terror has broken
and Poland may rise in rebellion.

Maxim Gorky, the Ruseten euthor, is to be tried $n$ the charge of writing seaitious prociamations.

General Grippenberg has been relleved from command of the second Manchurian army, but is permitted
to retain his poition of aldedo-camp to the Emperor.

Gessler Rosseau, the dynamiter, now under arrest in
Now York, says he made the machine that blew up the Now York, says he made the machine that blew up the Naine, but that it was intended to destroy a
vessel: Wpanish
What about the American casua belli?

Relatione between Norway and Swedem have become strained. Norway accuses Swedeni of disregardhg the terms of the Treaty of Union, and should ari amicable
settlement not be arrived at. danger to the Union Iteoti is threatemed. There are egain rumors of turbulent abcialist dis-
turbances in St. Petersburg, whore several of the lisrgevt manufacturers have recently closed down, with the re-
sult that 80,000 men are walking the streets idie and sult that 80,000 men are waiking the streete 1410 and
ready for any disturbance. Altoendy the mechinery in one of the big cottom mills has been wrecked, and the guard ommora have been warned that wreekred, and thent war
rant will be sealed the moment they agan order the rant will be sealed the moment they again order the
troops to Are on the people. It has also Decome matter of public discussion, that sentence of deathe has been passed upon the Czar, the Dowreger Emproes, and
thirty others high in authority. In Warsaw so bombe thirty others high in authority. In Warsaw 80 bombe
have been discovered in a brick grave in one of thie have been discovered in a brick grave In one of the
cemeteries, arrd an attompt hai been made upon the
Chef of Pollie, who :mmpraculously escaped with his iffo, Chiof of Poitice, who:miraculously escaped with his uffo,
though severely wounded by the eflects of the bomb, which was exploded in his carriage. Opon the same
day a bomb was throwir into the pollce station of day a bomb wan throwid into the poice station of
Praga, one of the suburbe of the clity, and six policemen were severely wounded, the furniture and walls of the room into which it lell being completely wrecked. The
peasant movement in wouth and west Ruenia also conpeasant movement in south and west Ruesia also con-
tinues to spread. Several landlords have been mula dered, and in some sections the peasants have taken posseeston of estates and are offering resistance to the

The rushing of supplles to Vindivostok, the purchase of enormuous number 3 of railway cars by Russia from
French builiders, and the statements from Paris that all hope of immodiate peace has been zbaridoned, presage
a repetition at Vladivostok of the Port Arthur tragedy. Japan is sald to be straining every nerve in prepara-
tion for the coming summer's campalga. Mukden and THeling are but the prelude to a campaign commencing
in Mey and involving the occupation of Harbin and inIn May and involving the occupation of Harbir and in-
vestment of Vladivotols. Prospects for the seeson include the destruction of the Russian filld forces in Manchuria, anid the sinking or capture of the Balitic fleet. The TYmes' correspondelit at St. Petermburg
cables that alarmist reports of Japanese columns approaching Kirln and Betuna contivue to be telegraphed by Russiar correspondents, though the geeeral stafl
anticlo ates nothing serlous for several weelks. Prosanticipates nothing serious for several weeks. Pros-
pectis of internal peace, temporarily brightened by an pects of internal peace, temporarly brightened by an
expected convocation of the people, are again obscuree expected convocation of the people, are again obscurec
hy the lowering clouds of reactlon and oppreselon. Re ports from Manchurla show that the Rusolams are de
ortroving the rallway much more thoroughly thina ha stroving the rallway much more thoroughly thinn ha
heen hitherto evideat. The inference is that they id mot contemplate recoveritly the intuation.

## MARKETS

## Toronto.

live stock.
Receipts at the Western Cattle Market last week amounted to 142 cars, and
cluded 2,382 cattle, 416 sheep and lamb 2,072 hogs, and 151 calves. Receipts for the same time at the Junction Stock the same time at the Junction Stocli
Yards were 54 cars, Including 841 cattle 2 sheep, 707 hogs, and 19 calves.

Export Cattle-The demand for cattle is | shil achive, and prices are adve |
| :--- |
| Choice are quoted at $\$ 4.75$ to $\$ 5.25$ | good to medium, 84.50 to 84.75 ; others $\$ 4.25$ to $\$ 4.40$, and bulls, $\$ 4$ to $\$ 4.25$. Butchers' Cattle-Good to choice, 84.50

$\$ 4.75$; fair to good, $\boldsymbol{\$ 4}$ to $\$ 4.40$; mixed lots, medium, $\$ 3$ to $\$ 3.75$, an

common, $\$ 2.50$ to $\$ 3$. $\begin{aligned} & \text { Cows sold at }\end{aligned}$ | common, $\$ 2.50$ to $\$ 3$. Cows sold |
| :--- |
| $\$ 250$ to |
| 24 | $\$ 2.50$ to 84 , and buls at $\$ 2$ tor $\$ 3$.

Stockers and Feeders-Higher; deman still active. Short-keep feeders a
 to $\$ 3.40$, with $\$ 1.75$ to $\$ 2.50$ for bulls. Milch Cows-The inquiry for cows of good quality is brisk.
at $\$ 30$ to $\$ 60$ ench
Calves- $\mathbf{\$ j} \mathbf{c}$. to 6 tc. per 1 b., and $\$ 2$ $\$ 12$ each.
Sheep and Lambs-The runs continue light in all lines, and prices are corre spondingly frm. Quotations are higher
Export sheep are quoted at 84 to $\$ 5.50$

 86.5. Spring lambs are quoted a
$\$ 8.50$ oto $\$ 7$ ench
Hogs. The market is weak in Hogs- The market is weak in tone
Quotations are unchanged at $\$ 6.25$ pe cwt. for selects, and $\$ 6$ for lights an
fats. grain, flour and feeds
 thanitoba-For delivery at lake ports on


 $\$ 5.30$ for bakers $\$ 15.50$ for bran in bulk sarce at $\$ 15$ t

 | bran. |
| :---: |
| Barley -46 c. |
| to |
| 47 c . for $\mathrm{No} .2,44 \mathrm{c}$. to |


 Corn-Canadian mostly nominal, 47c
to 48c. for yellow, and 46c. to 47 c . Co mixed, f. o. . . Chanthaum freights, Amer can . Unchanged.
55b... . mixed,
Toronto. Oats-Firm
outside. 4 .2e. Pens-The

69 c . for No. | or milling. |
| :---: |
| Buck whrat |

muchwhent-Higher, 59 an to 60c ens

Butter- COUNTRY produce.
one of the market is lesss firm. Creamery, pr
do solids
Dairy
Oubs
Dairy tubs, medium
do
do interi,
Sairy li. rolls, goo
do, large rolls
do, medium
changed at 11 gc . for
arge, in jecipts are growin
Eggs-Receits
he demand is about steady
'otatoes-The tone of the market con-
ues easy. Prices are quoted
cked, 81.75 to $81.80 ;$ prime


Chicago
Buffalo

| Cattle-Good to prime steers, $\$ 5.40$ to | tle-Fairly active and steady; |
| :---: | :---: |
| 40; poor to medium, \$4.25 to \$5.25; | steers, $\$ 5.60$ to $\$ 5.85$; shipping, \$5 |
| ckers and feeders, | to $\$ 5.50$; butchers', $\$ 4.50$ to |
| gs-Mixed and butchers', $\$ 5.20$ to | heifers, \$3.50 to \$5; cows, \$3 to \$1. |
| 371 ; good to choice, heavy, $\$ 5.30$ to | bulls, stockers and feeders, $\$ 3$ to $\$ 4.40$ Veals-Steady, $\$ 4.50$ to $\$ 8$. |
| 40; rough, heavy, \$5.15 to \$5.2 | Hogs-Active and steady, to 5c. hi |
| 10 to \$5.30; | heavy, \$5.75 to \$5.80; a few |
| \$5.25 to \$5.35, | mixed, \$5.70 to \$5.75; Yorkers, \$5.4 |
| eep-Good to choice wethers, \$5.70 | $\$ 5.65$; pigs, $\$ 5.20$ to $\$ 5.25$; rough |
| 25 ; fair to choice, mixed, \$4.50 | Sheep and Lambs-Slow, |
| ; native lambs, \$5.50 to \$5.70. |  |

smaller lots.
Butter-Prices have advanced unex-
pectedly ; supplies not keeping pace pectedly; supplies not keeping pace with
the demand. Fresh-made creamery, 28 . to 29c.; choice fresh, dairy, 23c. Cheese-Market has advanced further
during the past week to a high figure during the past week to a high figure.
Supplies cleaned up, and 12 kc . has been refused for white Ontarios. As stocks in England are light, prospects are
bright for good prices for the early
Cit Chatan make, more espectany seeing Potatoes-Demand brisk for good stock, and prices steady, at 65 c . per $9 \mathrm{G}-\mathrm{lb}$. bag,
in carloads, on track. Poor stock hard o sell at any price; fair, 5c. below
bove figures.
Country stacks seem to be considerable.
Beans-Little change. Stocks light; rices still firm; $\$ 1.70$ to $\$ 1.80$ for
hoice, according grades considerably less.
Turnips-Suddenly
Turnips-Suddenly become scarce, and
prices further advanced to $\$ 1700$ per ton, car lots. Retail almost a cent a Maple Product-One lot of sugar and
Mat syrup on the market. Pure syrup, in
15 -gallon kegs, 6 fc. to 7 c . 1b., and in 8 or 9 pound uns, 8 c. to 8 \&c. a pound (a
gallon weighs about 13 lbs.); sugar, 8c. gallon weighs about 13 lbs .); sugar, 8c.
to 11c. a pound.
Flour-Gradunlly declining in sympathy Fiour-Gat Priceit
vith wheat about $\$ 5.30$ per bbl. in bags for Manioba strong patents. hive, as English market reports aro not
very encouraging. Business for the spring is quiet, and no new freight engagemente are reported. It is expected,
though, that a demand for stall-fed and distillery cattle may wake up at any time. The supplies of these $\begin{aligned} & \text { cattle } \\ & \text { throughout Ontario are as follows: Pres- }\end{aligned}$ Eott, 450 ; Belleville, 440 : Toronto. 3,Windisor, 3,000 ; making in all 7,990 head. Shipments from the ports of West St.
John, N.B., last week, and Portland John, N.B., last week, and Portland
amounted to 1,533 head of cattle, and
1,400 head of sheep. The feature of the local live stock market was again the further, and sold at $\overline{\mathrm{T}}$. . These advanced for selocted stock, mixed and heavy being probably procurable at somewhat less. the firmer market on Canadian bacon in export trade. It is due simply to scarcity. At present the market for live
hogs is far above the price at which hog ractically closed down their plants for want of reasonable-priced animals. De-
liveries of other live stock are also light. ond prices are firm. Choice cattle sell
 ath; yearlings at 5 c . to 5 t.c.; and sheep
at 4 c . to 4 t c. Calves brink $\$ 1.50$ to
$\$ 4$. $\$ 4$ for poor, and $\$ 5$ to $\$ 10$ for good.

1) ressed Hogs. Etc.-Market for dressed ygs strong, in sympathy with that for Fresh-killed abattoir hogs are sellswal, select stock being very scarce. This applies specially to No. 45tc. per bushel, to sell in car store. No.

British Cattle Market.

## THECROWN BANK OF CANADA

## Capllill Authorlzod

Heal Office, Toronto, Ont.
Edward Gurney,
EVERY DESCRIPTION OF BANKING BUSINESS TRANSACTED In out-otal attontion given to accounts of Cheese Faotories, Drovers and Grain Dealere, and Farmers'
Eotose dis.
disoounted, Farmers' Sales Notes colleoted and advanoes made ir bocurity.
SAVIMES BANK DEPARTMENT Deposits of Twenty ceente and apwards received, and in yoar, without prosentation of passbool. G. de C. O'GRADY, General Manager.

## GET A HOME

## In the Great Canadian West.

 THE CANADIAN-BRITISH LAND CO., LTD. d by letters patent by Ontario Government, andthe Government of the Northwest Territoriles.


Contents of this Issue.



## Life, Literature

 and Education.rally folly but that folly is with out gulit; to communicate those with which we are entrusted is al ways treachery, and treachery for the most part combined with folly. [Dr. Johnson.

The Letters of Junius Readers of the " Farmer's Advo-
cate and Home Magazine " will have noticed occasionally in the newspapers letters signed "'Junius,"
"Junius Junior," tions in which Junius forms a part onymous letters known in literature and history as the "Letters of Junius." The subjects of the letters were mainly political, and 44 in
number, bcsides others signed "Philo number, besides others," signed ". Atticus," "Lucius" and "Brutus," believed to have been from the same pen.
Added to these were private letters Added to these were private letters
addressed to Mr. H. S. Woodfall, the publisher of the Public Advertiser, a London, Eng., newspaper, in which the letters appeared, and to John
Wilkes, the famous journalist and public character of that time. They
were written and published during a period of five years, from early i
1767 to the middle of 1772 . Some times they were addressed to th Printer of the Public Advertiser, and frequently to the public men of the
time. That was during the last year of the administration of the Duke of Grafton, and the first year
of that of Lord North. The first of of that of Lord North. The first
them was entitled the "State o the Nation," at that time George
III. being King. It was a trenchant and powerful arraignment of the ad ministration of the day, when the
liberties of the press had not yet been vindicated. "In one view," he remarks in the course of that
letter, "behold a nation overwasted: her trade declining; the affections of her colonies alienated ferred to the soldiery : a gallan army, which never fought unwilling ly but against their fellow-subjects,
mouldering away for want of the moulcering away for want of the
direction of a man of common abiltres and spirit; and the admin ond
tration of justice become odious and suspected to the whole body of the
people." The Duke of Bedford, Lord people." The Duke of Bedford, Lord
Mansfield, the Duke of Grafton, and
others writhed teneath the lash of this anonymous correspondent, an Invisible, unknown and dreaded cen
sor, who was equally cognizant with their public careers as with the fol lies and crimes of the private char-
acters. The letters were bold, forceful, pointed, epigramme, clear and above all stern and steady in their
attachment to the purest principles of the constitution, giving them
popularity and influence which n other series of letters before or since
have ever possessed. The writer was a man of affluence, wide and regarding the secret intrigues of the

Che last political letter over his sig. ature was addressed to Lord Campredicted their immortality, but declared: "I am the sole depository $n$. That he was able to preserve the marvels of literature and history Even his printer, Mr. Woodfall, did ity. Efforts a solve the mystery rst letter, and publication of the first letter, and have continued in-
termittently ever since. They have aeen attributed to Samuel Dyer
Burke, Boyd, Dunning, the Duke Por,lland, Lord George Sackville, Earl Temple, W, G. iSingle Speech)
Hamilton, Col, Barre, Wilkes, Horn Tooke, Thos. Lyttleton, and Sir Philip Francis. To the latter they
are, perhaps, most generally credited.

## Charles Sangster

Chas. Sangster, who was born at
Kingston, Ont., in 1882 , and died at Ottawa in 1893, ranks among the widely-known and representative Ca
nadian poets. He was the author o The St. Lawrence, The Saguenay


1806, and of " Hesperus, and Other 'oems and Lyrics," in 1860. His gin as follows : Greatest twain among the nations, lies that never should be sundered While your banners grace the skiesBut united stand and labor,
Side by side and hand in hand, Side by side and hand in hand,
Battling with the sword of freedom
For the peace of

The Real Squeers.
I recently read in a newspaper an furnished Dickens with the character of Mr. Squeers, of Dotheboy's Hall. ly man, but I happen to know that I wa did not exaggerate. las was a very small boy when Nicho the first time, in monthly parts. In a large school in Yorkshire, situated within a mile or so of the veritable Dotheboy's Hall. The boys of the
two schools went to the same church together. The real name of Squeers was Sowerby, and the statements the truth, as we boys knew who Squeers boys once a week,

We were known as "Simpson's
ads," they as "Sowerby's boys., Observing as we did the starved conpocket "hunks" of suet pudding and "chunks" of good bread and lake them to church to pass to our stairs beside them.
The great treat of their lives came o the Sowerby boys, on Sundays, when they were given half a salt
herring and $a$ boiled potato for dinner. If Dickens had seen the poor scarecrows dressed for church he description of the use of the wardrobes required by the prospectus. A part of the farm belonging to school adjoined Sowerby's place at a
small "nut gill,", or little ravine with a stream running through it,
which divided the properties. Hazelwhich divided the properties. Hazelnut bushes lined both sides of the allowed to gather all the nuts they could find and save them for winter, use. At nut-gathering time Sowerby
would patrol his side of the gill, havng a heavy dog-whip in his hand, ing a heavy dog-whip in his hand, bulldog, which he would try to set on
the lads. The dog was acquainted with us because we carried food to him, and when ordered to "sick'um " he would chase across, wagging his tail in expectation of "grub." As
we always went in squads of ten or twenty, we had no fear of Sowerby. The picture of Dotheboy's Hall drawn by Dickens ruined the business
of all the Yorkshire schools, and on my return home I was asked if I were not glad to leave the beautiful
place in which I had spent four happy years. But from my actual
knowledge of the creature who supplied the character of Squeers, the
idea of his being a s mild, scholarly idea of his being a " mild, scholarly
gentleman" is too great a libel on the fair name of Dickens to be allowed to pass uncontradicted.-[John fil the Argus.

## Shakespeare's Town.

By Anna L. Jack.
The famous Mecca for ShakespearThe famous Mecca for Shakespear
ean pilgrims is somewhat disappointing to adnirers of the great dramatist, for it is given over to a
money-making crowd, and Stratford-on-Avon is not the sleopy, old-fashioned village of our dreams
It seemed a strange travesty as we passed over the threshold of th a room that held over the door the word "Macbeth" in large, imposing
letters. letters. Looking down the corrido
we noticed each bedroom named and with a touch of sentiment that was half superstition, wondered why
some more fortunate person was some more fortunate person was to,
have "A midsummer night's dream," while we were given over to tragedy In the town, as it is now called all is stir and bustle when the crowd
of sight-seeing Americans invade the place. Into the old house-and the old church, when often a crowd await their turn in line, as if at a ticket-
office, and indeed there are tickets, for shillings and sixpences seem to as if by magic out of one's fingers and in return we receive a yellow slip, and afterwards a blue one on
payment of another shilling. It is the same as Anne Hathaway' tage-guarded by the money-making
exhibitors-but well worth the amount paid. The church is a fine old building, and the approach to it
under two rows of arching lime trees, is very beautiful. Many memorial windows give a wonderful light in
the sunshine-the prisms of color truly gorgeous. In the churchyard the stern stanza guards his "bones," and the noise of a tiny cascade is heard ming Such is the end of human greatness, we say, and a little of this eulogy while he lived would have been of more value than the homage
paid to a dead lion. It was pleasant, after the throng had passed by, to'sit in the chimnney
corner of Anne Hathaway's Cottage, corner of Anne Hathaway's Cottage, and look up its yawning gap to see
the blue sky and swallows passing in and out, to and from their nests. Here we could dream of that wonder-
ful brain, its visions and marvellous insight into nature, and again the thought comes that he did not in his life enjoy the result of his great
labor, or receive the recompense for what he has been to posterity. But dreaming ceases as the caretaker rattles the keys, and we seek the Shakespeare bus, while the air, in
redolent with the fragrance of lavender and roses, and we depart with a consciousness of an empty pocketbook, but a memory well storen and of a town that lives on dress

## Wife of His Youth.

The dedication of "/ Ben Hur'" got When he was writing into trouble his wife that he expected to dedicate it to her, and that she must furnish lowing, which appears in the fol edition of the work: ". To the wife The book leaped into public favo once. The usual penaltíes of Wallace began to get hundreds letters from people who had read the book. Among them were scores from women who supposed that the dedi-
cation meant that "the wife of his yuth " was dead. They sympathized with him in the fact that Mrs. Wallace was not alive to whare his fame, and more than one
of them hinted that she could be nduced to help him to overlook his Wss. These letters annoyed General are a second edition he thought of how he could put a stop to the matrimonial offers.
"'You got me into this muss," he ne out. Sho was willing, and after some hought suggested the addition of a nd in all future editions it appears as follows: "To the wife of my youth, who still abides with me."
So it is that lovers of rare books So it is that lovers of rare books their collection. The book went into many editions after the first, and
$t$ is seldom that one of the first is it is seldom that one of the first is
ound. If it has the dedication as first printed above, the collector may Alexander Hill, of Cincinnatition. one of the first editions with a fiyleaf of a later, edition vound in, showing the two styles of dedication

Occupation and Longevity What occupation in life offers
the best prospect of long life? the best prospect or 10 .
Dr. Schofield, late lecturer and examiner or the National Health So
ciety, has in his book os Nerves in clety, has in his book "Nervess in
Order " given a table of longevity
which suplies an answer which supplies an answer. the most healthful of all occupa Cuons. Clergy, who heal the lilist,
tive more than twice as long as the live. More thang, twice hand long as isthe
averaige members of other protes average members of other profesailitite fastor.
The complete list works out thus in order of longevity: Clergy (56: par ceant.).
farmers, agricultursal laborears, groc ers, lawyers,
watchmakere,
drapers,
artiste, bakers, clerks, chimist, graen groo ars, musidians, cab and bus men, swepps, publicans, metal miners,
hawkers, London laborera, barmen. hawkers, London laborers, barmen. perate habits and small, but assurred incomes, are factors in the long lif Farmers wo
they spent less money in drinkt. Grocers owe thenir higher death rate
to the spirits the consume. 0 the spirits they consum
were not that alter 45 they die oft wore quickly.
Drapers die largely from consumption, owing to the amount of dust
encountered in their business, but the suprisingly good health of coal min-
err in probably due to the harmlessars is probably due to the harmess ness of coal dust.
Bakers die largely
Suicide. Clerks alone live to the present average age of 48.
Musticians include all crgan grinders and German . bands. " Hence,"
writees the author, "their mortality." writes the author, ". their mortality."
-(London Leader.

Our Debt to Asia. It is noteworthy that out of Asia
came our alphabet and our Arabic numeralas. The compass we owe to needle as early as the second century A. D. Gunpowder originally came out of Asia, and so did the ar of printing and the manufacture of
paper.
The Chinese
invented movapaper. The in the midule of the eleventh century, 350 years before Guten-
berg. They also made silks long berg. They also made silks long
before Europe, and porcelain that has never been equalled by Europe. Truly, Asiai is the cradie of the race. On the original ideas of the Per-
sians Arabians, 1 the Hindoos and the -hinese our modern society has

## Think Straight

 It would be impossible for a 1 aw-yer to make a reputation in his proession while continually, thinking emout theink about ongineering. Hee
must
study study and become thoroughly imbued
with its principles. It is unscienwith its principles. It is unscien-
tific to expect to attain excellence or ability enough to gain distinction in any particular line while holding
the mind upon and continuelly conthe mind upon and continuelly con-ent.-Success

Two corregpondents wrote to a coun-
Try
oditor to know respectively,
Tho eat way or asisting twins through the
 orchard of grasshoppers."
The edith ent answered both questions aithfully, but unfortunately got the in tlals mixed, so that the fond rather of
the teething twins was thunderstruck by the following advice .
If you are unfortunate enough to be plagued by these unwelcome little pests the quickest means or stetung heot the
to cover them with straw and set the While the man who was bothered with grasshoppers was cqually nmazed to

THE FARMER'S ADVOCATE


Ideal Friendship-"A Threerold Cord."
Two are better than one : because they have a good reward for thelf labar. Fot II they fall, the one will lift up his fol dm, two shall withetand him, and a threefold cord is not quickly broken.Ecol. 1v.: 9-12.
1 in them, and THOU in ME, that they may be perrected into one.-s. John

A friend ts worth all hazards we cap Poor is
Poor is is the triendless master of a
world
, gain !

Surely no one will contradict that as ertion, for a friendless man would, in deed, be terrilaty "poor," even though he were "master or a world." $\begin{gathered}\text { St. Paul } \\ \text { was }\end{gathered}$ very rich, because he made \&ritends everywhere he went, and yet held fasat to
 whan so many will ald
ing:
The with the the ay-
company, three lis

Looking out of the window one sunn
 wrowned with a magnicent crims
wreath of the
virginian creoper. thought no more about it, until a fow days ago, when it suddenly struck me
that it was a picture of a merely human that it was a picture of a merely human
friendabap p-a union of " two," beautilul,
 appointing. The deal unity lis that of -a Trinity in Unity, Although .itwo
are better than one;, only the . three eold cord ", can stand a long, hard
stand strain. The tree supported the vine, beauty, both were constantly aspirthg but both had nearly reached their limit the height. Already the long tendrils of treen to cliling to, were drooping towards earth again. A triendship between two
numan souls can only be ideal ", when Christ " makeen, unseen, a Third." hearts burn within us while Ho talke ith us by the way; wo understand what with communion means, when wo tall
wim of our friend, and can also talk with our friend of Him-sure of pertect comprehension and fellow-felling. If He Cthe dearest Friend of each, then the gether, the nearer they draw to Him One Hope within two wills : one will Twenath
Two
overshadowing minds 1 one Lite $\underset{\substack{\text { One } \\ \text { One Death, } \\ \text { Heaven, one } \\ \text { Hell, one } \\ \text { Immortal }}}{ }$

The separation-even the dread separa Lion of death-may do its worst, but it
can only rivet the liuks which bind friends together.
Death hddes, but it cannot divide :
Thou art but on Christ's other side :
Thou with Christ and Christ with me And so together still are we
No real friendship is possible without he elements of Sacrifice and Trus Love may exist without Trust : many
broken-hearted father or mother loves, a David loved Absalom, when all trust is
gone ; and many a saddened woma gone: and many a saddened woman
shows the deathless power of love, when,
instead of walling joyfly instead of
wildernessee wildernesses, "leaning upon her be
loved," she spends her lifie in the weary
attempt to uplift the attempt to uplift the man who should be

 In that friend's loyalty was unshaken
and, though our friendship may not be as
severly tested as was that of the famous friends of Syracuse, if it is not founded on mutual trust and a readiness for
sacrifice, it can hardly be called friendship at all. Abraham well deserved the name of "iflend of GOD," for he was not
only ready to sacrifice his dearest earthly poseassion, but also trusted GOD to fulfil His promise-" In Isaac shall thy seed be called "-even though, in order
to do it, He might have to rafse Isaac from the dead.
As the friendship should be threefold, so the trust and sacrifice should also be
threefold. Friends must have confidence theach other and in Christ, standing always prepared to prove their love by
sacrifce, and He-Who has already proved His love to the uttermost-will gladly, if possible, trust us as "Priends."
He Who would not commit Himself to He who would not commit Himself to
some men because "He knew what was in man," did-lor the very same reavon-
commit Himsell to a few, Eaving : commit Himmell to a few, saying : have called you friends." He knew th
through and through: knew that, though they would desert Him a few hours later, they loved Him still. St.
Peter made no mistake when, although he could offer no proof of loyalty, he threw himself so confidently on his Friend's Thow knowest all thtngs : Thou knowest
Thou kning only the Master's Divine power that gave Him such clear instght-the pure in heart can not only see GOD, but also man. A
pure-souled woman knows that when she instinctively shrinks from anyone, there is good reason for the feeling of repulsion, though there may be no outside proof to
support her intultion. In the same way we know intuitively when another soul is longings. Tennyson, in © Geraint and Enid," shows how Geraint knew intuitively that his wife was trustworthy-
allhough, manlike, he refused to trust his own intuition-and Enid endured patient-
ly because she knew well that her hus band loved her, though he was treating
ber with such crem her with such cruel injustice. She could
not see into his mind, but she could into his heart, and, belng true to her
own conviction own convictions, she was far less
happy than he. Edna Lyall also show
in ". A Hardy. No. In "A Hardy Norseman," how the most
convincing circumstantial evidence agains a noble character weighs absolutely nothing against his own word, in the judgment of the few tried friends who see But even the best earthly friends are only human, and, therefore, not always
worthy of trust. Must friendship, there Tore, be broken as soon as a friend falls ?
Surely not I for, if they fall then will lift up his follow." Our Lord set us a wonderful example when, even at the
last moment, He tried to draw Judas back to his allegiance with the tender, thou come?" Our Fove for Him Hay may be
like a frayed thread like a Prayed thread, as weak "as fax
that was burnt with fire,"" but His fave the love by which He draws our hearts
to Himself-1s everlasting and mighty
 of The Blessed Trinity, revealed in the
Incarnations Though we may be as ig-
notant as Ephraim, and know not that notant as Ephraim, and know not that
Ho Is healing us, yet He still draws our
souls upwards souls upwards "with cords of a Man,
with bands of love." If we twine our weak cord of love round that mighty
" band," it will stand every strain, for all the pressure will fall on the central Then, if we are to be friends, we must
show ourselves friendly. The church car never forget that she failed her Lord
when He sank beneath the Cross whin he was bearing so willine for her, His
Bride. She forced Himg then to accoll friend undiling help of a stranger-not one ongerly forware to why we should fail Him now. When He.
in the porsol friends, looks to us for help, shall we not May it never be said of us: : Inaemul? can IIve unto hinself aione. It is our nature to reach out
necessity of our naty and touch ldidred aptrits-those
eagerly and who understand our thoughts "which lie too deep for words"-seeing ourvelvee re flected in them; for, "as in water face man.". Surely in this also we are made in the image of GOD, for His Spirlt is continually reaching out to touch th spirit of man in intensest secret commun-
ion, with which not even the dearea loarthly friend may intormeddle. Andwe may well bow our heads in wondering unworthiness at the or spirit with spirit is a real joy to Him too: ©The Lori thy God in the midst of thee is midghty He will save; He will rejoice over the will joy over thee with singing." Let us prize God's great gift of 8 riendship, for, as Jesua the son of sirech cine of life; and they that fear the Lord shall find Him.". If we are closely nels of power through which His Spirit neis of power through which His Spirit
will continually flow into the splrita of our other friends. He is reedy to work -through us-mighty works that the
world does not dream of. This is a hide den and secret zervice, but is not al power-physical as well as spitritual power-invisible and incomprehenaible
The infinite gain of this "threefold " fon is beautifully expressed in the following verses, which were sent me last Christmas by a dear friend, who, young
as she is, has early learned the power and aweetness of the Commumion of Saints :

```
Go thou thy way, nnd go mine,
Apart, yet not afar;
The pathways where we are
```

And GOD keep watch 'tween thee and
This is my prayer :
He looks thy way, He looketh mine,
know not where thy road may lie
Or which way min. "ill be:
mine will lead through parching
sands
And thine beside the sea
Yet GOD kreps watch
So never fear:
And keeps us near."

## How Just as I Am Cam

 to be Written. land gives an interesting account of th Origin of "Just as I Am," Charlotte El-liott's famous hymn. After telling the hymn came to be inspired through remark of Dr. Ccesar Malan to the in valid composer, when she had told him Christ-" Come to Him Just how to find said Dr. Malan-it is related that the hymn first appeared anonymously in The
Yearly Remembrancer. son, a noted
ginning
thus ginning thus its public history in the columns of an unpretending magazine, the
little anonymous hyman little anonymous hyman, with its swee
counsel to troubled minds, found its way counsel to troubled minds, found its way
into scrapbooks, then into religious cir-
clos cles and chapel assemblies, and finally in-
to the hymnals." That the to the hymnals." That the hymn has had a deep influence for good upon hu-
manity may be seen from the testimonials of ministers given in this article, and Miss Elliott, above a thousand leath of were found among her papers thanking her personally for the great blessing which had come to the lives of the
Writers throug the instrumentality of
.. Just as

For Everyday Use.
was only a helping hand, and it
seemed of little avalling. But its clasps were warm, and it anved e strength was failing. -Commonwealth.

It's only a mighty big man that doesn't caro whether the people whom he meate
believes that he is big; but the amaller elieves that he is big; but the amaller
he fellow is the bigger he wants to ap-

APRIL 6, 1905
A Few Hints on Painting.
In a recent number of the "Farmer Mahlstick, describing the beauties of the sunset just at milking time.
clined to write and sympathize, but
was "chore" time in general, and
was "chore" time in general, and su down and I had time to think it over. artistic talent displayed by the boys and girls on the outlying farms, and must atruggle along alone, when a few words of advice to direct their ellorts would mean so many difficulties smoothed over. It was my great good fortune under the direction of Mr. Framk Dicksee, R. A. I also had the happiness of
meating the late John Ruskin more than once, and enjoying his remarks on the Turner collection of water colors. The
records of these great masters have been of the greatest assistance to me The methods of the greatest are always the most simple, and though 1 chose a
breezier, healthier life than that of an artist, I have becm enatled by the advice of these men to paint pictures that gladden the hearts of my own household.
I should be sorry to leave the freadom of the farm life, to exchange it for that of an artist, for then 1 should be obliged
to paint pictures that would please the purchaser; now I can paint to make my-
sell happy, whenever I can steal a few self happy, whenever 1 can steal a fevive
moments from the house and poultrymoments Mrhstick's sorrows are frequent-
yards. Manl
ly my own, unly I find that it is the dawn that tempts me most. 1 believe my greatest temptation is the sight of
the pretty children bathing on the sea beach, and perraps arter that pre
Raphaelite bits by clear pools. It was Raphaelite bits by clear pools. It was
suggested on the same page that we should write and try to help each other
with our experiences on drawing and with our experiences on contribution to-
painting. My little cur "art class," lies in the fol-
wards our art wards our "art class" lies in the fol-
lowing few hints: Practice absolute truthfulness in reproductng all that you
see. Remember that the simplest little see. Remember that the simplest little
outline that is faithful and accurate
is far more valuable than the handis far more valuable than the hand-
somest, largest canvas that is decorated somest, largest canvas that is decorated
with falsehoods. Never allow a chance eithet to stand. Copy patiently fron
enature, as though every line was the only
nat one that you were ever to draw. Lel
your outline be bold, and confine all
boldness to your outline. Let the filling in be tender and full of toil. A roll o plain wall paper is a cheap and plentiru
supply to practice studies on. A fem sticks of charconl complete the prelimin ary outfit; and when you have learnt
to dash in your outline, I should recomto dash in your outline, I should recom
mend a few oil paints in preference to mend a few or paints in premch more
water colors, as you are so muar
likely to acquire a bold style, and the are much less ominously expensive tha
the sable brushes and moist paints. Al Ways use a bristle brush for oils; neve
be tempted into anything more yieldin A nat piece of wood nicely planed wi attompts on. I have found that it wil somet imes happen that IT am interrupted
just as my palette is set. covered a plan wherelly the paint need
not be wasted. I squeze the pain tuhtes carcfully on a small saucer, an
with my palette knife take a small po tion at a time on the palette. I keep thide my saucer face downwards under th wiler. The paint will keep moist
will mix up nicely with a li
and (mirs.) octavius allen.

Likes the Wrist Bag
I well pleased with the wris
roreived. Wishiny your pape
BIGHAM


The Picture Book.
 ." Let us look at pictures ! ${ }^{\prime}$ said Jack At last,
And Annie agreed to the plan-
They're only pretending of course, you she
she
they won't show one to Fan.
 Do you see how they look and smile
They know she will climo on the table
soon

## It she thinks it is worth her while.

## But pictures are rather beyond her yet



What we're looking for we can always
find,
In picture-books as in life,


One Little Injun. I cannot tell how many years the story of "One Little Injun," as written for
Harper's Young People and republished, by permission, in booklet form, has lain
amongst my gatherings. But here ti i with its exquisite humor and tender "I am a jolly little Indian pappoose. I keep pretty close to my mother. Sh
does not often like to face a responsibil. ity of my size, but she will shoulder it any time, and so we are bound together .. When I am at home I live in a wig wam, which mother and I built. Wigmade it of poles covered with bark and
skins.
We built it together.
Mother skins. We built it together. Mother
did the work, and I backed her up did the work, and I backed her up
heavily, and between us both we pulled heavily, and between us both we pulled
through without interrupting fathor, who
was busy sitting on the warm side watchwas busy sitting on the warm side watch-
ing mother and me work. My father is a proud and lofty being : The Sun is his a prowd and lorty being : The sun is his
father, he basks in his rays : the Earth is
his mother. he roposes upon her bosom. his mother, he reposes upon her bosom.
My father honors his parents, he is bound My father honors his parents, he is bound
to bask in all the Sun there is and re pose on all the bosom he can lie down upon, no matter how much time it takea
to do it. He clings to his mother Earth to do it. He clings to his mother Earth
and she hangs upon him, many waters cannot part them, in life they hold close
and in death nobody knows them apart. and in death nobody knows them apart.
My father gives all his mind to basking My father gives all his mind in bissink ing, drinking and eating at odd times. But when there is a war, or a hunt, of
a dance of the braves, he arises, paint a dance of the braves, he arises, peints
himself all glorious, beats mother to make her good, and goes ofl with a gun.
m Mother and $I$ do all the rest of the work; we plant and hoe and harvest the crops; we grind the corn between stones
or pound it in it into cakes., and roast them in the fire for father to eat. Mother does it, but
keep right round after her, seeing to it all.
"Sometlmes we have nothing to eat-
Out. My father can shoot no squirrels,
my mother can get no corn. Then Wo my mother can get no corn. Then Wo is a long tramp, but Idon't mind it, for mother does the walking. We form a Mother heads the front and I head the ehead backward like a born leader of the hindmost, and 1 pass everything on the
oad that is not going my way. ${ }^{-}$The first thing I notice is our $\mathrm{mig}-$ wam and cornstalks and boan pols.
They are large at first, then they get malley and fainter, till they are no bigger than a mosquito, and then fode quite away. So all our village goes from and the earth has no end. At lenjeth re come to things-horses, mules, ditchies, rivers, trees, houses. mother's shoulder. They all begin and strong, and they go away 1 littlo rom me. I don't know what is coming, and I can't dodge it till it is past. That
is what comes of going ahead backward. . My people are pretty much like me The My people are prether much like mevernment straps them upon a board and shoulders them around
rom one place to another. If she hears from one place to another. 18 she heiri if she sees them shiver with cold, blankets them ; when they shriel ${ }^{\text {ned }}$
kick with rage, she beats them. She leck with rage, she beats them. Ste lill somebody else wants it, and then the bundles them off to the other side of
nowhere, which nobody wants. howhere, which nobody wants.
" My people, like me, are
"My people, like me, are going aheed
oackward. once they had all Amerlica to hunt and fight in ; now they have only a small portion of the larid where
they can stay. The father of all my fathera could shoot an arrow. right through a blson, but his son could onily kill a bear, and the bear-killer'm son could
only kill a deer, and the deer-killer't. only kill a deer, and the deer-killer'0 $10 n$
shot foxes, and the fox-killer's. son shiot squirrels, and the squirrel-klller's son-
that is myself-can only catch fies. Ah ! that is myself-can only catch alies, Ah
my people started in big Injun,' but my people started in big injun,
they are coming out little pappooso.
." White men who atay home and "White men who stay home and malke
books say my people are dyling out ; but hite men who look around and count say my people aro living on, as many at ever. Oh, I am the interrogation point,
that points the Indian Question? What am I- a person, ? or folks? ? How wild
I come so Where? When? Why? How am I coming out-voter or scalper?
Which or the other ? Likely as not Which or the other? Likely as not, or
more so. There are thousands upon
thousands like me, bright-eyed, brown thousands like me, bright-eyed, brown-
skinned, lusty young braven, at this very minute cutting our eye-teeth on our
knuckle-bones and toughening our luags Kn young warhoops, but we are always
on your hind side and etther wo are not
on the
going the way we are headed or we are going the way we are headed or we are
headed the way we are not going. Who
know? Either way we shall come ai headed the way we are not going.
know ? Either way we shall come at
the pollis, we fellows-as citizens perhaps the pollis, we fellows-as citizens perhaps.
ballot tin hand, as outlaws maybe with
tomahawk alott and hang 'em at our tomahawk aloft and hang 'em at our
belt-the polis. Hoopla I Toss up. "They say there are white babies who
are carriled upon their mother's hearts
and next and next to their cheeks; thess bables
always look forward, and everything starts small and grows large and comee
toward thiem, and they can catch it they watht fit. These babies have thei
eyes and ears trained to find out what is eyes and ears trained to find out what is
coming, their foreheads bulge out to meit
future events, and their noses are sharpfuture events, and thelr noses are sharp
ened upon them as they whiz by. So ened upon them as they whiz by. So
these babies grow to be strong men They talk wilt the lightning; fire and
water are their horses, and the smoke is water are their horses, and the smoke is
their banner. The forests and the mountheir banner. The forest.
tains bow down to them.
/ Oh, old Mother Government, take up
my poor people and bear them upon thy my poor people and bear them upon thy
heart : feed them with the milk of buheart kied them pive them justice, and man kindness : give them justice, and
teach them, by example, the law of love Then shall my people lift up their heavy
hands ; they shall . look forward and hands; they shall • look forward, and
not backward, up and not down, and lend and. time to time we have had an ocasional talk over some nationalities, and
heir several types. but I ask you their several types, but I ask you
could any be found of deeper interest to could any be whether of Fastern or weent-
our readers, when
urn Canada, than that of our redi-kinned "rn Canada, than that of our red-skinned
brothers and sisters, who once, claiming
them as their own, roamed at will over
the foresta and prairies of what we eire the forests and prairies of what we dro
proud to call the Dominion of Caned?

## GOURLAY, WINTER \& LEEMING 188 YONGE STREET, TORONTO <br> ALTERATION SALE ORGANS

Every Parlor Organ in our warehouses offered at a Sacrifice Price
We are shortly to commence the remodeling of our warerooms from cellar to fourth
floor. In order to facilitate the handling of our business du ing alterations we have floorded to reduce our stook, and now offer the contents of one entire floor-every Parior Organ in the warerom - new and used, ifle, ive xand seven octave, cabinet and In ordortng, send your
your order is received.

TERMS OF SALE



 insstrument sanf of por packer withthout
ihe return freight if net satisfactory.


8. BELL -5 octaves, 10 stops, 2 sets of reds throughout, couplers, , knee
4. SHERLOCK \& MANNING - NEW-A handsome Walnut Organ, 49

5. DOMINION-NEW-Solid Walhut Organ, with mirror top, handsomely
6. DOMINION - NEW - The same organ as number 5 , but with a
7. DOMINION-PIANO CASE-6 octaves, 11 stops, 2 full sets of reeds, ${ }^{2}$
8. BERLIN--PIANO CASE-6 octaves, , s stops, 2 sets of retds, , couplers,

53

11. DOMINION- PraNo CASE-6 octaves, solid walnut case, hand-carved
12. DOMINION-- NEW, PIANO CASE-Same organ as number 1 , but with $\mathbf{8 7}$
13. SHERLOCK \& MANNING-NEW, PIANO CASE- 6 octaves, 13 solid walnut case with beveled mirror in top, a splendid organ. Cata
logue price, $\$ 270.00$.

 mirrors in top, carved pancls and automatic pedal cover, if stops,
couplers, knee swells, etc. Catalogue price, $\$ 300$,ooo. Used only a few
months.
16. SHERLOCK \& MANNING- NEW, PIANO CASE-New Colonial

17-18. DOMINION - NEW, PIANO CASE-Two only, of the same style as
19. ESTEY

20. ESTEY-An Art Organ for Musicians



GOURLAY, WINTER \& LEEMING 188 YONGE STREET, TORONTO Hamilton warorooms 66 King st $w$


English Ivy.
Miss M. E. S. writes: "Could you
give a treatise on the Emglish Ivy in one of your earliest issues? I expect to get a slip from England about 1st of April, water it ; in fact, all about it. much enjoy Flora Fernleaf's talks on flowers, they are so instructive in fact we think the 'Farmer's Advocate' a ly be beaten."
Ans.-Slips of English Ivy are easily started by placing in clean sand and keeping moist, or by wrapping the end in a ball of shagnum moss, and placing it in
a jar where the moss can be kept constantly damp. When rooted, pot in good garden loam ; keep the soil moist (not wet) and train up around the window place the pot in the light where the soil will be kept sweet, but the leaves will flourish anywhere on the walls, their only requirement being frequent sponging to keep off the dust. If scale or mealy
bugs appear, take off with a blunt knife, or wash with a solution of fir-tree oil
soap. The English Ivy will not grow soap. The English Ivy will not grow
outside in Canada, but is admirable for inside decoration. Pansy seed may be sown in August,
or very early in spring in flats. Many people, however, profer to buy the plant-
lets from a greenhouse, and set them ouin the garden when already well on the
way toward flowering. Many others way toward flowering. Many others
have beds held over from last year : so it is with these already-started plantlets, we will to-day deal. the plants are to be set out. The soil should be pulverizerd thoroughly and
mixed with good leaf mould and some mixed with good leaf mould and some
cow manure which is so old and well rotted that it somewhat resembles oldd, rich soil. If this old manure cannot be
procured.
chip dirt with Frocured, chip dirt with a plentiful
sprinkling of soot is good, or pure leafmould even, when it can to had conven iently in a sufficient quantity. Most
people hold that the pansy bed. people hold that the pansy bed should be
made in a place where it will he in par tial shade; place where it will be in par-
others, however, maintain that it will give even better results in full sunlight, that the plants will be more
sturdy there, and the flowers more bril liant in coloring. Wherever the spot selected, set the plants but nine inches apart, and $r$
member to keep them well watered. thorough drenching once or twice a day will not be found too much; the drier
the situation, the more water the situation, the more water required
Soot tea, made by soaking soot in
woter water, will also be found very beneficial, fall on the foliage. If fungous does not shound attack the il fungous disease
Bonts, spray with Bordeaux mixture. Mildew may be
treated by may with Above all things do not neglect to re move all blossoms as soon as they begin
to wither. It will pay to buy new seed
every tin. ens the plants, makes the succeeding
ens the meding invarialy weakson of bloom. By guing over the bed in this way every day, and seelng to it that
plenty of plenty of water is given, you may induce
your pansy beds to put forth their best efforts until quite late in the fall. If
however, for any reason, the flowers seem to be diminishing in size, and the plants
beginning to sprawl and become tractive, you mayy remove become unat-
up the bed with tuberous begonias, ageratum, or petunias.
Among pansics, which are highly recomSnow Queen; Giant Yellow; Giant
 FLORAIsh FERNLEASAF. $\begin{aligned} & \text { Ring it ye bells of the kirk, } \\ & \text { The Lord of love came down from above }\end{aligned}$

How to Keep a Boy at Home By Mrs. Annie Rodd, Charlottetown.
Although much has been written on this, or similar subjects, yet the probbeing solved, for many of the boys continue to leave the old homestead seek their fortunes in distant lands One thing is certain, however, if the boy once makes up his mind to leave home, it is generally very little use
to try to oppose him or loee to try to oppose him or keep him
against his will. The couplet reads. ". A man convinced against his will Is of the same opinion still." as well. It would be hard, indeed convince a boy he should remain hom When he has made up his mind to go away. It is too late in the day then
the lessons should have been him in the early morning of life. This is the proper time to take "the his pression" (as it were), which will re main firm and steadfast. Surely what is needed is to so train and educate
the boy from his infancy that not wish to leave his beloved he wil place. But the training cannot be is able to toddle around, sor as he fore, the parents should give him good practical lessons. Not only by precept, but by example should the little
innocent one be taught. The parent
silould never should never forget the responsibilitities
of their position. They should live nith of their position. They should live nigh
to God, and thus set the child a noble
exam example. Honesty and truth a should and the home should be a true haven of rest. Very early the boy should be taught to love the beauties of Nature
and the free enjoyable life on the farm He should be tauable life on the farm.
mals and always tre the animals and allewas treat them with kindvery. best the the barents should let him know that they appreciate his efforts.
"Parents, don't be afraid to praise your a stim will encourage him and act as a stimulant to future efforts. Take the do all in your power to interest him in farming. Fathers, never let him hear farming being hard work times or lo might lead him to seek another voca-
tion later on. not relax your As he grows older do interest in the farm. Give him a piece of land, a fruit tree or one oo the
calves for his own. This will please and calves for his own. This will please and
interest him, and he will thoroughly enjoy the responsibility. When you are about to engage in any new method
of farming, or invest in new machinery, talk over the matter with your son. Let him see that you with your
and value his opinion. Treat him a trusty, worthy, intelligent boy, never suspect him of doing wrong. Suspicion be careful on this point. If strict obedchild will be eaced in early infancy the grows older. The proper time to "break in'" a boy is before he is three years old; then it is easily done, as a general
rules if the parent practices farmness rule; if the parent practices firmness,
gentleness, and self control, love will
conquer conquer. Keep your home well sup-
plied with good literature. A careful
perusal perusal of the Advacate. A careful
will arouse his enthusiasm and inteer-
est her if Don't scold or find fault with him; imes, remember you were not perExercise cheerfulness you were a boy.
Take an interest in worry. and an interest in your boy's likes
andikes, encourage him to conAne in you and tell you all his joys
and sorrows. Give him a a little pocket
money sometimes, for it mate money sometimes, for it makes a boy
reel independent to have his own
purse.

APRLL 6, 1905


THE EXCELSIOR LIFE IISURAMCE COMPAYY HEAD OFFICE: TORONTO. Some Sallient Fentares. From Report
for 1904.



 Interest Torenne aione more than
pays Death Claims.






 AGENTS WANTED.



Portrait of the Late Bishop Baldwin


Tho Lonion Printing \& Llthographing Co LONDON. ONTARIO.

## HEALTH IN THE HOME GBy a praiged Nurse

Home.


Or in India's coral strands, Ahere the winds are perfume laden
And warm waves caress the sands, Whether eastward, whether westward,
When the daylight fades to gloam, Where a baby runs to meet you,
And to kiss you, that is home. Where a baby runs to meet you-
That is all there is in life: All there is at all worth winning,
Worth the slaving and the strife Worth the slaving and the strife;
Two wee dimpled arms stretched to you,
Two expectant eyes that wait: It is home for you wherever
There's a baby at the gate.
is home-swect home-forever,
Where the lilts of laughter run
A a tousle headed baby,
Sitting playing in the sum
Sitting playing in the sun ;
is home where every night time
As the evening shadows creep
wee night-robed figure whisper

## Is Your Cellar Clean?

The approach of spring naturally
turns our minds to thoughts of housecleaning. The cellar should be the point of attack. A area
many people store their winter tables there ; some are obliged to do so, and by the time spring comes
the atmosphere is disagreeable and nhealthy. Vegetables should no be kept in the house at all if it can
be avpided. The cellar is of no
no great advantage for any purpose ex-
cept to contain the furnace roon and coal, unless it is dry, well lighted easily aired and clean. Many other wise immaculate housekeepers appear
not to mind considerable
dirt not to mind
in the considerable
dilar,
dit quite as necessary for clean
iness to prevail there as in the attic or any other part of the dwelling vides an especially favorable resi-
dence for every kind of cerm. The
dit rough woodwork of a ellar is an lader trap for all kinds of germ
last. The ideal cellar has a scparate room for, furnace and coal, a concreto
foor and several windows, so ar
and ranged that opening them does not mean letting in an accumulation
ice and snow. Cellar windows ar necessarily just beneath the ground-
floor level, and consequently just befloor level, and consequently just be-
low the cellar ceiling, and if made with one movable square pane in
each, afford a means of thoroughly changing the air in a few moments many a woman, both on account of ing, as a rule, and because they are
generally steep and awkward; the generally steep and awkward the
treads are too narrow and the risers
too high and the woman too high, and the woman goes up
and down many times during the dav carrying something, often of a pretty
fair weight. The result is excessive fatigue. It would be a good investment in building a house to see that
the cellar is light, that the woodthe cellar is light, that the wood-
work is at least planed, and to pro-
vide a well-built night of stairs with bannisters. Stairs are bad enough without being badly built. There so that the threshold of the door
leading to the cellar is not the to of the last stair, coming up. Al the the people who have to attend to the household matters in point of
fatigue. consequently nervousness. consequently good temper
年解, or a shed put up for that pur pose. An accumulation even of fres and time, combined with a stuffy
cellar, does not improve it. Air and
sunlight are disinfectants in themselves, and anything that cannot be should be kept out of the house where
people live. Tired Mothers. A little elbow leans upon your knee,
Your tired knee that has so much bear ;
chear eyes are looking lovingly A child's dear eyes are looking lovingly
From underneath a thatch of tangled From underneath a thatch of tangled
hair. you do not heed the velvet
Of warm, moist fingers, folding yours
so tight:
so tight:
You do not prize this blessing over-
much-
You almost are too tired to pray to-
night.
But it is blessedness : A year ago
I did not see it as I do to-day--
I did not see it as I do to-day-
We are so dull and thankless, and too
slow
so catch the sunshine till it slips
To catch the sunshine till it slips
away-
And now it seems surpassing strange to
me,
That, while I wore the badge of mother
hid noot kiss more oft and tenderly
The little child that brought me only
good.
wonder so that mothers ever fret
At little children
At little children clinging to their
or that the footprinte, when the deys
Are ever black enough to make them
If I could find a little muddy boot.
If I floor- kiss a rosy, restless foot.
If I could mend a broken cart to-day,
sky,
There is, no woman in God's world could
She was more blissfully content than I.
But, ah t the dainty pillow next my
Is $\begin{gathered}\text { own } \\ \text { never } \\ \text { oumpled by a shining head; }\end{gathered}$
My singing birdling from its nest
flow-
The little boy I used to kiss is dead
$-{ }_{-}$

## To Cook Dried Fruit.

 Success in cooking dried fruits de depend
ons lageely upon little cooking and cold water and let it stand a short withe to soften any dirit that may adhere to it. Then wash the fruit, rubblig it
carefully between the hands. Thor-
oughly rinse the pult and cover plenty of cold water, letting it soak the frult and to the water add half a pound of sugar for each pound of
dried fruit. When the sugar and water have cooked clear, put in the frult,
taking care not to crowd it, and only When making layer cake, if there not time to line the tins with paper,
the cake is not so likely to stick after the tins are greased they ar
THE
the heat of the oven. For angel cake, sponge cake, pound
cake and kisses, have the oven so that it will require five minutes to turn a plece of white paper light yellow.
For all butter cakes, have the oven as to color the same kind of paper
dark yellow in the same length of For bread, have the oven hot enough
so that there will be little specks of brown on the bread in ten minutes. can without burning the article cook-
ed. When the crust of the ple ls cook ed. When the crust of the ple is cook-
ed, lower the heat to allow all the fruit
to cook, if not already done.

## Your Ideal Cracker

Think of all the good linds of crackers you ever rasted. The creamy whiteness of the first-the lightness of the second-the crispness of another the appetising app pearance of another - the de ficious eating of the fifth. Then see how we've comp bined all these five points into one cracker.

## Mooney's

 Perfection Cream SodasConiure up your ideal your perfect cracker-and you'll find it in Mooney's Perb fection Cream Sochas


What We Can't Do
 pamit Suporfluous hair Tut ixaidy

 overithing Emerter. Got our book; it dearibee ORAMAL DERMATOLOOICAL IHSTITUTF:


drop haod sow hat manhi




I WOULD LIKE EVERY WOMAM 5omo


## GREAT SALE OF ORGANS

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## Opaotunity for Out-0:-TOwn Buyers

Just look at this list. Read the descriptions, note the small
Ev, and make memo of the easy terms of paym dition before being offered for sale

## ORGANS.

1. सetey Organ, medium high back, 9 stops, 4 sets of reeds, 5 ootaves, gran
2. Geo. and kn Orgenall low back, ohapel atyle, 5 octaves, 8 stops, 4 sets of
3. Doominlom Organ, high back, 5octaves, 8stops, 3 sets of reeds, includ ing
vor humana stop, ootave couplers, grand organ and knee swell......

4. Doberty organ, high beok with mirror, 10 oto ase, , settof reed. treble
5. Bell Organ. high back with mirror and music racks, 5 octaves, 10 stops,
sets of reeds and sub-bass, octave coupler, grand organ and knee swell..
6. Amdran Bron'. Orgen, high back with mirror, 5 octaves, 8 stops, 5 set
of reeam, oylinder fall, knee swell.
7. Belloargan, high beck with mirror and music rack..................... 5 octave,
including vox humana stop, 4 sets of reeds, treble and bass couplers
-. Doherty Urgan. high beck with mirror, 10 stops, 5 octaves, 3 sets of reeds
. Boll Orkan. high back with mirror, music rack, 11 stopa, 5 octa vee, 4 se
8. Fgerp Orga, high beck with imitation pipes, 13 stops, 5 nctaves, 5 sets of
and knee wwell ; cylinder fall.
. Taepple Organ, high back w
9. Woll Orgam, high back with mirror, 6 octaves 11 stops, 4 sets of reed
treble and bass couplers, grand organ and knee swell, cylinder full
. Dominion Organ, high back witt mirror, 10 stops, 6 octaves, 4 sets d

10. Dompnolon Organ, Gootave piano case, with 11 ktops 4 sets of reeds,
treoho and base couplers, graud organ and ineo sweul, fold ing mouse proot


sized church
Thomas Organ, chapel case, with 12 stops, 5 sets of reeds, including sub
bess. This is a beautiful organ, sultable for any church or Sundas
 hass couplers, grand organ and knee wwell. Used lesst than three months
11. Goderioh Grgan. piano walnut case, 6 ootaves. 11 stops, including vox
®R. Thomas Orama, with raill top and nirror, walnut piano case, beautifull,
decorated top door, continuous music rack, 6 octaver, 11 stops, includink
 vox humana stop, 4 sets of reeds, treble and bass couphers, grand orga
and keee swell. Used less than 3 months. A beautiful parlor orgal
Reguar.








GASY TERMS OF PAYMENT



YE OLDE FIRME OF
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TO SECURETHEBEST RESULTS
Place an Ad, in the Farmer's Adrocate


The following letters will explain
themselves. That of B. S. is certainly
feet well, and leave it for their wives themselves. That of B. S. is certainly
a revelation; one could scarcely have be
lieved that conditions such as those de lieved that conditions such as those de-
scribed could be common to any comscribed could be common.
munity in the Dominion. Poverty and hardship a true woman can facce some-
how, if she has to, but to be "cursed" how, if she has to, but to be "cursed"
at for making a simple request is dreadat for making a simple request is dread-
ful. It is to be hoped that a few of the men, such as those whom she describes,
will read her letter, and resolve to turn will read her letter, and resolve to turn
over a new leaf in the future. In over a new leaf in the future. In
marked contrast to this letter comes
Gertrude's. It is a pleasure to peep into a happy home such as hers, and a
pleasure also to be able to tell you that the great majority of the letters which the great mavority of the letters which
have come in resemble hers in that they
have nothing but have nothing but good to say of the
farm life, and the farmer husbands. We farm life, and the farmer husbands. We
shall publish these, or extracts from them, just as soon as possible. $\begin{gathered}\text { DAME DURDEN. }\end{gathered}$ We all like to have our labor duly ap
Wreciated. W/y does the average preciated. W W does the average hu which his wife hungers? He gave it i abundance when they were lovers, why
not now? Oh, how an act of kindness not now ? Oh, how an act of kindness
or word or praise, would lift the heavy heart. It wound not cost even one cen of that beloved object, his monene he is not honest enough to bestow it
Ask him to plant trees around the home and you are cursed for your trouble Ask for a pump or closet. the same re
sult follows. Ask for small fruit, you ar allt follows. Ask for small fruit, you a
told you are insane. Now, this is really true picture of by far, the greate number of farmer's homes in some vicin
ties, and it is the lack of all that conties, and it is the lack of all that con-
stitutes a real home that makes women stitutes a real home that makes women
detest the farm. It remains in the hands of the farmer to remedy the evil
Alta.


WORD FOR THE O. A. C. BOYS Dear Dame Durden,--Being an intereste reader of Ingle Nook Chats, and having
just finished Marie's letter, I, too, thing I will give a few of my views regarding
that Illinots letter. Two years ago $\left.\begin{array}{c}\text { I married a farmer } \\ \text { (gentleman), }\end{array}\right]$ and having spent all my previous life in a parsonage, you can imagine the change in regard to work. friend, and so get along famously. a person has a good system and strictly
follows it, work is made much Iollows it, work is made much more easy
In modern farm homes there are so many conveniences-in fact, elmost like tow homes-work is made much lighter. How
ever, as yet we have none ever, as yet we have none of these con
veniences, but hope to some time. I find it rather inconvenient in winter, regarding water, for instance.
No farmer's wile need No farmer's wife needs to be a slave
and if she is, it is her own fault. course, I know there are men who ar nothing but brutes, and who rather en
joy seeing the women doing all the drud joy seeing the women doing all the drud
gery, but a woman should simply refus to do it. That Illinois farmer is a sam ple. He should be tarred and feathered Country life is superior to city life for
many reasons. We have ./. disad many reasons. We have disa
vantages," of course, but we have advan tages too. If we choose, we can spend all day at our work, but for my part, fancywork or reading. I am as fond of a clean home and a good table as an one, but I do not believe in making
slave of myself. It does seem unfortunate that so many of our young men are growing up with

the impression that the impression that the women have a | memselves. Why, surely then can se |
| :--- |
| themsite and chore around a | that a woman's hands are full with her

house alone, without working in the barn house alone, without working in the bar
or barnyard. A woman's place is in home, not outside.
Truly, dear Dame. I could writ Truly, dear Dame, I could write
columns on this interesting subject, for columns on this interesting subject, for
do think it disgraceful that some wome
have to slave so years' experience, so vo not know a grea deal about it, but am sure time will
never make a slave of me mever make a slave of me.
Fortunately for me I won a real, true gentluman for a a husband, and he treats
me as a wife should be treat me as a wife should be treated. He was
a student at Guelph College, and tha a student at Guelph College, and that
may have given him some ideas; if so would advise all young farmers to take
course there and prepare themselves husbands, not for slave-drivers.
Trusting to see many more letters. Trusting to see many more letters.
Bedford Park. to see some 1 could take Ihane Durden a man's opinion.
 ven years now, without one. six of leas ine. I scald it with the when I us I scald it with the water used th
the churn, In which $I$ always put
washing soda. When well soaked
w

APRIL 6, 1905
I ompty and refill mith cold water. Ateer worling the butter, I wash frrat with To merubtere thentide, I turn it over on an a ableo scrub with soap. and rinse-never
have heard that some poople grease them when new, before puing, but know nothing of the procass. I may add that to keep a churn in
good condition, it should be thoroughly wahbod with cold water immediately alter the butter in taken out, so that no particle of butter can melt into the
orod. The metal ring ahould be scoured
 or washing the butter bowl and churn lty of cotton used for inside sugar sacks. It in surprising the amount of dirt which will be taken out. lotter, I am astonished from my knowledge of Americans that he is allowed to axist. There are numbers of such hus bands in the world. The best remedy mother to see that her daughter has some occupation, which ahe should learn own living by, if needed. In this particular case, the woman is to blame for dolng so much work. Surely she might "Farmer" would not have to work at all. He cannot be much of a hustler, unless at whitting before the
chores. Men are naturally the more they are indulged, the more tyrannical they become; particularly as all mon are childish in some way or for the material element in a woman's love for a man. Good-bye, Dame Durden,
with best wibhes for your success, also with best wishes for your success,
that of the paper, which deserves it.

Langley Prairie, B. C.
A POOR LITTLE CHORE GIRL. Dear Dame Durden,-For a long time I have been longtag to be one of you, tanco: but I am going to try now. enjoy the Chats very much, and find much
useeful information in your Ingle Nook. We have a farm, and there is a lot o work to be done on it. We have twenty ave head oige cattie, as father is so busy working all the time, I have to be the little chore boy. I have to feed the pig and cattle, and cook five sacks of pote
toes a day for the pigs when we are tat toes a day for the pigs when we are have to do. I think it is a little to hard for a girl to do; what do you think
Well, as this is my first visit to the Nookers, I will close, hoping you will not be disgusted with me. 1 may not com Be sure to come again breve Litt Chore Girl. I wish we knew how to make things easter for you.

A Dog's Sense of Humor. The following bit of news from New
York City certainly proves that diogs think, and that they are sometimes struck with a sense of humor, as ar human beings. It is related that "the
proprietor of . Third Avenue store own a little black kitten, that cultivates habtt of squatting on its haunches, lik a bear or a kangaroo, and then sparring
with its forepaws, as if it had taken les sons from a pugilist. A gentleman took into the store the other evening a enormous black dog, half Newfoundland balf collie, fat, good-natured, and into bolting at once for shelter, retreated few paces, sat erect on its hind legs, and The contrast in size between the two wa The contrast in size between the two was
intensely amusing. Slowly, and withou a sign of excitability, the huge do walked as far as his chain would allo
him, and gazed intently at the kitten and him , and gazed intently at the kitten an
its odd posture. Then, as the comical ity of the situation struck him, he turned his head and shoulders around to th spectators, and if animal ever laughed
the world, that dog assuredly did so the the world, that dog assuredly did so the
and there. growled, but indulged in a low chuckle while eyes and mouth beamed with me ment. It is nonsense for people.

## The Average Man Doesn't Know The First Thing

about flour, but the woman who does the family bakingshe is the one who appreciates Royal Household Flour-made by the new electrical process-because when she tries it with the simple "Royal Household" recipes she finds it makes better, sweeter, whiter, lighter Bread, Buns, Rolls, etc., and more crisp and delicious Pastry than she ever made before, and she is not afraid to say so.

$$
\begin{aligned}
& \text { South Range, Digby Co., N. S., November 2and. } \\
& \text { "I want to tell you that Royal Household Flour in } \\
& \text { the best I ever used in all myI life, and the only kind I will } \\
& \text { have as long as I can get it", } \\
& \text { (Signed.) MRS. ALEX. PORTER. }
\end{aligned}
$$

To any womap sending in name and address to The Ogilvie Flour Mill Co imited, Montreal, and mentionring this paper, these recipes will be sent FREE


## GANADA PERMARENT <br> MORTGAGE OORPORATION

Toronto Street, Toronto.
 and pays INTEREST at 3,0 POCEVD TwICE


Pard-up $\begin{gathered}\text { Capital } \\ \text { Ree日rare } \\ \text { Invested } \\ \text { Fund } \\ \text { Funds }\end{gathered}$
Invertod Mas $2.000,0000$
$24,000,000 \mathrm{O}$
20

TORONTO EMGRAVING CD (a) cuts for ( 3 ), ARALL PURPOSES Z
02 \& 94 BAY ST TORONIO

Advariss in the Advectite
AND GET BEST RESULTS.


Open the tin and serve. No cooking No bother Excellent. Yet the cost per pound is but littl more than what your butcher charges for uncooked beef with bones and waste. TRY IT


Your
New Barn


How do youk intend arranging
your stabling? You want your stabling? You want to
bave it light and airy and arranged in the best possible manner for cleanliness. We have
consulted with leading stockmen in various parts of Canada, and are now preparing cuts showing various suggestions for stalls
and arrangement of cement and arrangement of cement
floors in connection with our

U Bar
Steel Stanchion which is a superior construction for fastening stock. The adop-
tion of this stanchion with the tion of this stanchion with the
latest construction of stalls relatest construction of stalls re-
sults in a big saving in first cost of equipment and in preventing
waste of feed. We also supply

## Steel

Watering Bowls which automatically supply stock. If you are building a new barn, want to save money, and have the best and neatest us for particulars, advising num-
ber of cattle you stable. If ber of cattle you stable. If
you have an old barn you you have an old barn you
should re-model the stabling. ASK FOR CA TALOGUES. See our advertisement in last

Metal Shingle \& Siding Co., Ltd. Dept. 8, - Preston, Ont.


Bry
TTE


 ESPLEN, FRAME \& COMPANY,


APRTL 6, 1905
THE FARMER'S ADVOCATE.

No Breakpast Table EPPS'S An admirable food, with all fitted to build up and maintain robuse heatreme cold. It is a valuable diet for children.
COCOA
The Most Nutritious and Economical.

## HOME STUDY

Applied to our special courses given by mail
in Bookkeeping. Business Forms, Arithme tiic, Penmanship, Shorthand, Typewriting
IIlustrating and Advertiving will produce good reaung and for any ambitious young man
or woman who wishes to qualify for a bet
 ${ }^{\text {them }}$ CORRESPONQENCE DEPARTMENT


DORSET HORN SHEEP and SCOTCH SHORTHORNS

 other fookk in the world. 'stook tor sale act
Johan A. M. MeGillilvray. North Toronto, Ont. QUESTIONS AND ANSWERS Miscellaneous.
seeding for low tand permanent pas I have a farm I wish to seed down
this spring and kepa as a pasture farm;
most of it is wery low and wet in the most of it is wery
spring. What would be the most suitable grass seed to sow for that purpose,
and how much? Would it be any use and how much ? Would
to sow any red clover at anll ?
Huron Co. Ans,-Red top, Kentucky blue grass and
alsike clover are the most suitable for your purpose on the land you have; but as the red top and blue grass are slow
in getting established, it is well to sow other grasses so that the land may bo
fully occupied from the start. much, but it would not be amiss to sow
a little, and would suggest the following
mixture and wountity
 Kentucky b
Timothy ....
Alsike


QUESTIONS AND ANSWERS. Misceltaneous. an injured ram. I was down at Toronto Exhihition last
fall and bought four ewe lambs, two
ewes and one shearling ram (imported),
and paid $\$ \$ 5$ for the ram. I also paid

LLOUOR AND TOBACCO HABITS.




 busi ieses. and a aerrainty of oure. Consulta
lion or orroeppondence invited.
Registered Kent or

## Romney Marsh Sheep

strychanine poisoning in pasture I heard recently of a man's cattle ing poisoned by feeding off land where,
veral years before, strychnine had been set to catch foxes? Can you credit
his? Was it the strychnine, or some fisonous weed? R. P. Ans.-Scarcely; rain would surely have
washed it down into the soil. You are
ris

rouble to some weed or other agent.
TREatment of young stallion. 1. What is the best kind of feed, and
ow should it be fed to flesh horses up


Ans.-You ought to promptly write R.
ONT.
repudition
repudiating any, liability, and in case o
suit by himl for the $\$ 50$, enter a defence
the
suit by him for the $\$ 50$, enter a defence
thereto. We think you ought to be able
to successfully resist
to successfully resist such an actic
FARMING BY THB MOON.

1. Does the moon have anything to do
with the weather ; if so, to what extent
and how ?
2. Is there any foundation for the be-
lief that if pigs are killed in the waning
of the moon, the pork will shrink when
cooking much greater than when the pigs
are killed in the growing of the moon?
3. If peas are sown in
4. If peas are sown in the growing of
the moon, do they ripen more irregular-
ly than they will if sown during the wand
ly than they will if sown during the wan-
ing of the moon?
5. Does it make any difference in the
slipping of plants as to their flowering
whether done in the growing or the warl
ing of the moon? SUBSCRIBER.
ing of the mo
Brooklin, On
Ans. -1 . The moon is supposed to affec
the weather to some extent; that is
the weacher se in the moont is usually ac
say, a change
companied by unsettled
companied by unsettled weather. Jus how the two are connected we would not
undertake to say, as the subject is rather undertake to say, as the subject is rather
out of our line,
2, 3 and 4 . We don't take much stock in any of this folk lore. We have beat
these questions answered very emphatica these questions answered very elmphatical-
ly in the affirmative, while others have
been equally dogmatic in arguing the very converse. In our own practice we nev
farmed by the moon. boor on cattle ferding and diseabes 1. I saw in the issue of January 12th
the question asked for a book on feeding cattle. Does this take up the work fully for both fattening cattle and also for
dairying, and does it give cattle diseases, dairying, and does it give cattle diseases,
symptoms and treatment?
6. Can you tell me a good doctor 2. Can you tell me a good doct
book for cattle?
7. Which will you have the most out ror land and labor, ensilage corn, or routs
and clover hay? 4. On what principle do you think best
to build a silo, and whether outside or inside-
Ans.-1، Feeds and Feeding, by Henry is
J. a pretty complete and authoritative work
on feeding all kinds of animals, but does on feeding all kinds of animals, but does
not treat of diseases. 2. Veterinary Elements, by Hopkins,
price $\$ 1.50$, postpaid, through this office, is a very good elementary veterinary
work, relating to farm animals in gener-
al. A more exhaustive one is The Farm-
W. W: CHAPMAN.
$\qquad$ London, England.

## A WOM.AN'S SYMPATHY


$\qquad$

me. .il you need to do is to write for a free box
of the remedy, Which has. boen plaod in my
hands to be given away. Perhape this one


Please Mention "Adrocata" WHEN WRITING TO ADVERTIGERS

## 87,000 in prizes. ELEVENTH OANADIAN $\$ 7,000$ in prizes.

## HORSE SHOW









## CRRNEFIN: STOCK FOOD

The cut tells the story. If you feed
Carnefac
you have calves just as good. If you do not, you If your dealer has not

## Carnefac

writo us for trial. Equally to Horses,Hogs and Cattle.

The Carnefac stock Food Co..

Winnipeg, Toronto.

518
POUNDRY
COEASON







 $\bar{B}$ B
 B


















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## THE FARMER'S ADVOCATE.

## TeADE TOPICS

| St., Monmouth, Tll., the larges eir combination stump puller, y be stump-anchored or sell-anch |
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seven thousand dollars. Fine List of Premfums for the Can The Canadian Horse Show, which is to be held in Toronto this year during
Easter week, on April 26th. 27th 28th Easter week, on April 26 th, 27 th, 28 th
and 29 th, will thow a distinct ond 29th, will show a distinct advance hist now amounts to the handsome sum of seven thousand dollars. The Horse
Show will possess an additional inter est this year by reason of the fact that the new Governor-General Lord Gríy and
the Counteess of Grey will make it the the Countess of Grey will make it the
occasion of their first Visit to Toronto and whll open the Horse Show.
The entries close on Wednesdey. The entries close on Wedneeday, Aprll
12 th, and should he addressed to the Secretary,
Buildings,
Torontry, Wade, Parliament orms and prize lists can be obtatned.
There will be reduced railway all lines for porntu from St. Thomas on
the West. Southampton. Owen Sound and irevenhurst on the north and Kingston
on the East. Return tickets on the East. Return tickets will be
oold at a single fare, good going Wed and a single fare, good golng wei
nesday. April 26 th, and a fare and
 all tickets good to return till Monday
May 1st. Reserved-seat tickets can be
obtained on application to the Manager Mr. Stewart Houston, Massey Hall, T
Monalit

## GOSSIP

Mr. Geo. H. Johnston, Balsam, Ont.
writes: "We had over one hundred appHhorn sale as the result of our adverties ment in the "Farmer's Advocate.' hese men could get here, but they
ought a good number of the beat ani-

Mr. L. W. Cochran, Crawfordsville, Ir
diana, writes that he has diana, writes that he has been very bus
ior the last three weeks, having sold as shipped from one to six horses a day,
ut still has quite a good many fine Yung. Percherons, Shires and Hackneys
left. "In the last three weeks I have oold
nni shipped horses to Canada. Warghond. and shipped horses to Canada, Margland
Virginia, Tenn, and Kansas, beeldes
many to adjoting and nany to adjoining and near-by states
Austomer never goes away whithout
cuylng, and always writes back that Cuying, and always writes back that ho
and his nelghbors are pleased .with his horse, and everything is satisfactory
With the quality and kInd of horses
have for sale and the guaranteo I sive ave one could and help but be pleased and
no satisfied.

Mr. J. G. Truman, manager of Truu
mans nder date March 29th, 1905: " En
cloesed please find copy of letter from In your next 1ssue. Which kindly much obliges
will here state that the Assoclatio will here state that the Association won no less than six ".
Wenona. In., March 28th, 1905. Trumans' Ploneer Stud Farm, Bushnell,
H11.: near Sirs, -1 am sending you by expres Tered by thls Assoclatton and won by your stick at the
Exposition, 1904 .
Wish to congratulate you on winnt showing made by your firm and on a majority of nedals offered by this A Association.
With nedals offered by this Association.
With best wishes nnd kindest regards.

The King of Terrors Is Consumption.
 The baleamic odor of the newly cut pine heals and invigorates the lunge, and even consumptives improve and revive amid the perfume oben known to physicians, but the eassential heeling principle of the
pine has never belore been ceparpine has never berore bee
ated and refined as it is im
in DR. WOOD'S
WIY PINE STRU NORWAY PINE SIR healing virtue of the Norway Pine with other absorbent, expectorant It cures Coughs, Colds, Hoarsenese, Bronchitis, and all affiections of the bronchial tubes and air pas-
aages. Mru. M. B. Lisle, Eagle eages. Mrr. M. B. Lisie, Eagle Dr. Whod', Norway Pine Syrup for coughs and think it is a sine remermthe bef weople here have great faith in it as it cures every time.

Price 25 cents per bottle.
min INCUBTORS
Daniels INUN Are the latost and



 Made in Canada, We oarry a full line od
poultry muppliee Ournew catalogue is out, and
p froe for the alding C. J, DANIELS, River St.. TORONTO MY barred rocks and bupf orpingions
 RIIV. Packed. SANDERSON, Chesterville, Ont Barred Rocks from penter egge for hatching





A PENNSYLVANIA Dairy to lease-First-olase


 $\frac{\text { Advoo }}{\mathrm{B}^{\mathrm{A}}}$



 $\mathrm{G}^{\mathrm{INSENG} \text { tie, Highanadie. }}$
Wanted ${ }_{f}$


## CLYDESDALE STALLION

OVERTISE II THE ADVOEATE

60 years' world-wide DIP now of over adding laurels to its well-deserved repu tation. Recently after severe offcial tests it has been declared the National the Russian Government as the exclusive dip of that country. The British Govern ment has used and endorsed it for nearly half a century: Add to this its use
upon more than half the sheep in the world every year, and its merits are worlid every year, and $\begin{aligned} & \text { suffictently demonstrated to warrant the }\end{aligned}$ confidence of its makers in soliciting
the custom of sheepmen who are not ret the custom of sheepmen who are not ye
its patrons.
special tratning--Special preparation for doing some things, and doing
them well, should be included in the train them well, should be Included in the train-
ing of every young man and woman. ing of every young man and woman.
No preparatory work is better designed or more effective in enabling young people to make a successful start in life that is
given from term to term in that peer of given from term to term in that peer of
training schools, The Central Business College, of Toronto. It is susinesi equipped, well oryanized, thoroughly
manned and effcient school, and ofives the manned and effcient school, and gives the
uplift to roore than twelve hundred young uplift to raore than twelve hundred young
people every year by providing just such courses as every one should parsue. The spring term began on April 3rd, and students may now enter any day.
and continue work to end of any course There are no vacations. A very hand Mome catalogue is sent by the Principal
Mr. W. H. Shaw. on receipt of a postal

FOODS AND FOOD PRODUCTS.-Pror tory Society of Montreal-Immense value Prof. M. A. Gray, chemist, lectured last ight on Foods and Food Products," The lecture was most exhaustive and in-
tructive, dealing with the growth of wheat, its constituents and the eloctrioal
treatment that but little could be sald concerning
the percentage of nourishment contained
in the difirent western hard whent, as it varies from year to year. Speaking of the chemical
experiment, Mr. Gray pointed out what
had been done in this line in regard to wheat during the last ten or twelve vears, in the difrerent experimental sta
tions of the United States. It was but
very had been established in connection with strated their utllity. As to the purlfica-
tion of flour remarked that it fs about two the speaker this method was adopted, and the do
velopment has been wonderful. A beautiful silvery whiteness is produced by
subjecting flour to alr which has been passed through a flaming electrical dis-
charge. The flour has also, as a conse quence, better keephng qualities and com-
mands a better price. The Ogilvie Flour
Mills Comen Mills Company, he said, was the only
firm in Canada, and one of the first in America, to make use of this purifying
and sterilizing process

QUESTIONS AND ANSWERS. Miscellaneous.

MISREPRESENTATION OF HORSE
rse to be ten years, old. $B$ bought
horse and gave his note.
$B$ find that the horse is eighteen years old. 2. Is there any law against such do-
ings. $B$ has not sald anything to et. and is willing to pay what the
orse is worth. What would you antfise me. B. to do y young farmer. Ans.-You should settle, if possible: but romise then make an actual cash tomCer to him of the amount he is fairly ot accepting same, and proceeding to it on the note, you should defend the din, and also enter a counter-claim dimmanes for the misrepresentation think you are liable on the note, but
B also has probably incurred liabill-

## APRIL 6, 1905

For Saring
Debility Dr. Chase's

Nerve Food

 to misfortune and calamity.
The habit of dosing withen sarsaparillas in the spring with salts and to undermine the health of the present generation. In the spring the blood is thin, the enervated. What you need is a tonic and restorative, such as Dr. Chase's Nerve Food.
of dosing the system with salts or simhlar weakening purgatives you will appro ctate Dr. Chase's Nerve Food, which acts on the principle of forming new blood,
building up the system and creating new nerve force
It is something to strengthen rather than weaken that you must need in the
spring, and Dr. Chase's Nerve Food supplies this' need as no other medicine was ever known to do.
By its use the action of the heart be comes strong and regular, the stomach is necessary to healthrul digestion, and every organ, of the body 1s enabled to
carry out the duty imposed on it by carry
nature.
Dr. Chase's Nerve Food, 50 cents a ox, at all dealers, or Edmanson, Bates ture of Dr. A. W. Chase, the famious rectpe-bookd author, are on every box.

A young lady rom Washington was feeing arme -ald to an old farmer: :" Oh, how mavage that cow looks !" are carrylng," sald the farmer. trife out of fashion, but I never thought country cow would notice it."
"And you went up the Rhine, I sup-
pose?" Baid Mrs. Malaprop. "Oh, yes I $\begin{array}{ll}\text { pose ?" said Mrs, Malaprop. "Oh, yes I } \\ \text { It was beautiful } & \text { Mal "And did you see }\end{array}$ any Rhineoceroses ?

## THE POSTMASTER

 TELLS HIS SECRETHis Health Mainly Due to the pills.

Postmaster Lee Looks Ten Tears Younger
Than His Beventy-six Years, and Ho Glves the Credity tody the Ureat Uana-
dian Kidney Remedy. Tabucintac, $\underset{\text { Cumberland Co., N. B., }}{\text { April }}$ Ard.-(Special).-Horatio J. April 9rd.-(Special).-Horatio his seventysixth year, but so bright and healthy does
he look and so energetic is the in his movements that he would eastly pass for " How do I keep young lookdng," the lartmasty to my good health, and my
health is mainly due to the use of Dodd's idney Pills.
ey Remedy some thears ago. I was then sulfering from Kidney Disease. My feet nd legs swelled, and I had to rise eight "r ten times inary troubles. Six boxes of Dodd's Kidney Pills restored my health at that
time and $I$ have used them at intervals To To anyone afficted with Kidney
Crouble, I say Dodd's Kidney Pills are Trouble, I Isey 'Dodd's Kidney Pills are
all right.' Try them and you will be

## cossip.

## Last Mountain 를 Valley



In Township 21, Range 21, W. 2

THE FINEST WHEAT LAND IN NORTH-EAST ASSINIBOIA. Average crop for 5 years, 25 bush. per acre.


Opening Out Now Farm
STEAMBOAT SERVICE on the LAAKT
S.s. Queen City and S.S. Sliken Dale will make regular trips with freight and passengers.
Railway in Operation this Summer.


In Township 28, Range 28, W.
Write for free maps, books, etc

Wm. Pearson \& Co.,
Winnipeg.


ADVERTISE IN THE ADVOCATE.

TRADE TOPICS AURORA WELL WORKS.-To bore a
well for water, oil, coal or mineral prospecting, use the Lightning well ma chinery, manufactured by the Aurora Well Works, Aurora, Ill. Speed and adaptab1l-
ity are strong points of their machines. ity are strong points of their machines.
with them, you can put down a well of any diameter and depth at a minimum of cost. Write them for descriptive
catalogue, mentioning the " Farmer's Adcatalogu,
vocate,"

NEW ROOFING FACTORY.-From this time on, rooffugs, hitherto manufactered in the United States, will be a Canadian
product. F. W. Bird \& Son, one of the oldest roofing and building-paper manubeen established at East Walpole, Mass., since 1817, have recently acquired a con-
siderable tract of land near Hamilton, Ontario, and have already begun the
erection of a roofing and waterprooferection of a roofing and waterproofpaper mill at that place. This adds to
Canadian manufacturing institutions an anadian
ld
manufacturing institutions an
reliable
concern.
Canadian people will still continue to buy the
Hird \& Son Bird \& Son roofings, which are already be buying goods of home manufacture. Bird \& Son publish an instructive book alled "Building Economy," devoted to writing them at their new Canadian actory at Hamilton, Ontario.
canadian british columbia LAND CG.-The eyes of the world are
more than ever turned towards the great Canadian West. The homeseekers of every land are longing for a home in the
Last Great West. To those of limited Last Great West. To those of limited
means, the highh-priced lands in the
United United States or in the older provinces
of Canada, make the securing of a home of Canada, make the securing of a home
a diffcult if not an impossible undertaking. In any event, it means years of strenuous effort lost, and not unlikely
middle age finds the atrugling with a heavily-mortgaged property. It with a heavily-mortgaged property. It
is to these that the fertile plains of the
Went West offer a splendid opportunity for
home-building. Land Co. olfer in their advertisement in
his issue large tracts of land in the this issue large tracts of land in the fa-
mous wheat section of Eastern Assini-
boia. No part of the West offers so many boia. No part of the West offers so many
advantages as the rich and fertile plains north of Moose Mountain, in which these lands are situated. Beautiful
prairie, abundance of pure water
prairie, abundance of pure water, prox-
imity to fuel and building timber, unsur-
passed passed fertility, and ensy terms, are some
of the advantages offered. If you want One of the safest and best investments on
the continent, or if you desire a home in
one of the most favored districts of the
West, gee thit fater

Why Women Are Weak
any Womanly Sufferero, I offer a Full Dollar's Worth of my Remedy Free.

Only one woman in 98 has perfect health. And
And and womanly sickness can be traced to a com
 ordinarily think about-not the nerves that govern
ordur
our movements sand your thoughts.
But the nerves that, unguided and unknown, night your movements and your thoughts.
anu the nervestat, ung inded and unknown, night
and day, keepe the heart in motion- ontrol the diges.
 kidneys- the nerves on which all the vital functions
depend
these are the nerves that worry wears out and work
 lar heart-the disordered ilver-the rebellious stomach
at the deaned kidneys. They are no to blame. But
go back to the nerves that control them. There you
 of a quarter century of endeavor along this very line
It does not dose the organ or deqden the pain-but it does go at once to the nerve-the inside nerve the
powernerveland builds it up, and strenghthens it and
makes it well -and that is the end of womanly weak. ness.
In more than a million homes my remedy is known.
It has cured womanly weakness not once, but repea edlly over and over again YYet you ma not have have
heard of it or hearing, may have delayed or doubted heara of thor hearing, may have delayed or doubted
Sol mate this offer o you a stranger that every
possibee excuse for doubt may be removed. Send me

 standard botte he heeps constantly on his shelves
The druggist will require no conditions. He well ac
He cept my order as cheerfully as though your
before e im. He will send the bill to me.
Will you accept this opportunity to learn at my
expense absolutely, how to be rid forever of all forms of wemanly weakness-to be rid not only of the
orouble, but of the very cause which produced iv
$\begin{array}{cll}\text { For a free order for a } & \begin{array}{l}\text { Book } 1 \text { on Dyspepsia, } \\ \text { full } \\ \text { dollar botle } \\ \text { Bou }\end{array} & \begin{array}{lll}\text { Book } 2 \text { on the Heart. }\end{array}\end{array}$
 Book 6 on Rheumatis.


## Dr. Shoop's Restorative

Indigestion cured to stay cured by using Booklet free.
 Advortiss in the Advocate

## Steele, Briggs' Seeds

## are the Best that grow.

YOU can't afford to waste weeks and months of time and energy - in growing so called cheap or Bargain Seeds. What you want Ie FULI SIZED PACKACES at popular prices. Seeds that are TESTED AND TRIED. No disappointment with them. Your money's worth every time. If you want to make a success of your year's work,
STEELE, BRIGGS' SEEDS
not merely because we say so, but because they are known from one end of Canada to the other to be absolutely reliable. You work as to results. We make sure in advance that the seeds are right, and guarantee values to be always the best.
The STEELE, BRIGGS' SEED CO., Lmmited
TORONTO, Ont., HAMILTON, Ont, and WINNIPEG, Man.


## BIBBY'S "CREAM EQUIVALENT"



[^0]

THE ROIL BEITUHY TREITMEIT, The source of all Power, dinawed The Fonitalim of Youth matiere of br





 and Send or KOHR MEDICINE CO., P.O. Drawora 2341, MONTREAL.


THE FARMER'S ADVOCATE.

give a genuine air of refinement and luxuriousness to any room.
They are made in all the Oriental, Classik, Colonial and modern styles, and when used in conjunction with Classik Cornices and Wal1 Designs, they give a charming effect-thoroughly artistic and strictly in harmony from top to bottom.

This 2oth Century finish provides an artistic embellishment, absolutely fireproof, as well as strictly sanitary

The Classik kids will tell you a lot more in this comnection if you ask them
GALT ART METAL CO., Limited, GALT, ONT.


What is the tensile strength of that wire you are gettirg? Do you know whether it is
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Is
A few left on hand for sale that I wish to close out at from $\$ 000$ to $\$ 1,000$ each. These stallions are all bred from the best sires of Scotland and Eugland. Such noted sires as :
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J. B. Hogate, Sariia, Ont, or Lemoroxille, Ques.

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 CLYDESDALES columbus, prices. Amongst them, Baron Gartley, Stations - Oshaze and sweepstakes. G. T. R. Myrtle, C. P.
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Special Notice to Our Readers.
When writing any advertiser in this issue kindly state plainly that you saw Ad. in the
TARMER'S ADVOCATE AND HOME MAGAZINE.

OUESTIONS AND ANSWERS. Miscellaneous.

## WASHY DRIVER

$\underset{\substack{\text { R. H. } \\ \text { driver. } \\ \text { Ans.- }}}{\text { An }}$ Ans.- Purge him with a ball con
sisting of six drams aloes and ginger; then give daily in powder, nux vomica, gentian and ginger, one dram
each, to tone up the digestive system. Exercise care in feeding and watering.
When in the stable, feed clean hay and easily-digested grain, such as ground
oats. Do not water just before taking oats. Do not water just b
on the road or after feeding CEment floor for sheep barn. I want to put a concrete floor in ou
sheep barn, and would like to know whether there are any in use in Canada,
and what the objections to them are, if and what the objections to them are,
any, where there is lots of bedding used
a woid 1. Would like the opinion of some of the
sheep breeders through your paper. take eight farm papers, but like th
"Farmer's Advocate" best of them all $\begin{gathered}\text { Ans.-The only objection is the expense } \\ \text { which, with any ordinary site, would b }\end{gathered}$ which, with any ordinary site, would be
yuite an unnecessary one. In a damp
location, such flooring might be advisable ; but
admirably.
probably milk fever.
$\qquad$ Catved in the afternoon; cleaned an
seemed to be all right. I went out in th anorning to milk her, and got about half
pail of mill, besides what the calf took shortly after, she seemed to become very weak. I called in a vet., and he
treated her for milk fever. She gradually got worse, and at three o clock died
Un opening her, we found where she had eaten the cleanings, and it had all
lodged in the stomach. lodged in the stomach. Do you think
she could have had milk fever, having a she courd have had bag getting that much milk away
soft ber her ? The first thing the veteri-
from Irom her ? The irst thing the vetent-
nary surgeon gave her was a bottle of
salts. Do you think if he had given sarts. Do you think if he had given e
quicker laxative there would have been any chance to have saved her ? $\begin{aligned} & \text { DAIRYMAN. }\end{aligned}$ Ans.-It was probably a case of mill
fever. caused by milking arerer calving. The proper plan is to only
partially milk for the first three days. It is a mistake, and generally a fatal
mistake, to dose for milk fevar. Fill each quarter of the udder full of oxygen, or is the necessary outfit for that is not available, pump the udder full of air with
a bicycle pump, or a rubber-bulb syringe and no other treatment will be necessary. It is astonishing
failed to profit by
treatment in the
treatment in the last two years of this
allowing and allowing valuable cows to die which
might be saved at so little expens. miscellaneous quebtions.

1. Could I raise pigs from weaning
time to sey six or otght months successful without skim milk by raising plenty of rape and roots, and using bran and
shorts mixed with oats, or would it be better fed dry? faxseed is it advisable
2. How much fla to feed to a calf in skim milk, and how
to prepare it ? 3. Are calves better kept inside in sum-
mer than outside ? 4. Could a fairly good mimk house he
built for a summer cedar logs or lumber? Please prescribe
method, it so, for a small one of about Ans.-1. If for the first two or thrie
weeks after wraning you have sufficient Weeks after weaning you have sufficient
kitchen swill and scraps in which to mix rice meal or sifted oatmeal to give the
pigs a good start, you mighit grow them fairly well later on the foods mentioned
mixed with is to steep it for twelve hours in water,
then boil it then boilit to a jelly, und feed from hal
a pint to a pint in warm milk, according oats or meal and bran, as they will at a
month ground
ture.
8
$\qquad$

Tuttle's Elixir $\$ 100.00$ REW Cures all
 ourds, splints, contractid
ords, thrush, etc, in borses Equally good for internal use in coisic, distemper, foun-
der, poreumonia, ectc. Satis-
faction guaranteed or money faction guaranteed or money
refunded. Used and endorsed
by Adams Express Company SOLD BY ALL DRUGGISTS



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Shire and Suffolk Punch Stallions

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Burndennet Stack Farm-Clydeadalen of the Bilriuennet Stoek amin on ot fashion abile
 dartioular- Write to Canaiian- Clydestales for saleo One stal.


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## NORTHWEST

iagrand Trunk to Nor th Bay, thence Canadian to each train. Passengers traveling without We-stock should take the train leaving Toronto at 1.45 p . m. Train leaving Toronto at
p . m . is for p p ssengers traveling with stock. Full particulars and copy of "Western

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Attacks stopped permanently. Canse re
moved. Breathing organs and nervoussystem


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APRL 6, 1905
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## TRUMANS' CHAMPION STUD

mem


 bost colloetion of stailions to pick from in Canada, many of them being World's Fair
and Interatational winners. $A$ rresponibie guarantee given with every hores. We
 Trumans' Pioneer StudFarm BUSHNELL, ILL., U.S.A.
H. W. TRUMMAN
J. H. TRUMAN,
Manager,London, Ont., Branch
Whittlesea,
England.


20-FIFROIEIコIUOME-20 Hava just arrived with our new importation, Jan. 1st, 1903 , diredt from Franioe, of 20 are descondants of such noted championses Briliant, Resione, Romulus. Have personally






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At the World's Fair at St. Louis $\mathbf{I}$ won more Premier Cham
pionship awards than any other exhibitor of live stock; I wo


 town. I will guarantee stallions
two years, and to get $60 \%$ mares in foal.
Time of payments made to suit the purchaser
GEW W. COCHRAN, 607 West Main St., Crawfordsville, Ind.


20 CENTS PER SHEEP onovoryano
STEWART'S IMPROVED 1904 Price in
STEWART'S MPRO MACHINE




UUESTIONS AND ANSWERS. veterinary
indigestion. Nine-months-old colt occasionally turn his head to flank, paws and kicks
little.
B. S . Ans.-This is due to indigestion.
Purge with six to eight ounces raw lin Purge with six to eight ounces raw lin
seed oil; follow up with half a dram each ginger and gentian in damp food night and morning. Feed on smal
quantities of good clover hay and scalded chopped oats and bra,
gets regular exercise.
inappetence. My calf did well until about five week
ago; since when it will eat nothing but
straw.
J. B. R.

Ans.-It is probable it was over-fed
when quite young. Purge it with six when quite young. Purge it with six
ounces raw liused oil. Then take one
ounce ounce each sulphate of iron, gentian,
ginger and nux vomica; mix, and make into twenty-four powders, and give a
powder three times daily in half a pint powder three times daily in half a pint
of cold water as a drench. of cold and
milk
quantities.
unterifty coli
Three-year-old driver, getting regular
exercise, and being feed on hay, oats, bran and boited barley, does not thrive.
He is hidebound, and hind legs swell, and He is hidebound, and hind legs swell, and
he has scabs around the fetlocks. Give
treatment for a speedy recovery. Ans.-The colt is sadly out of condition, and the symptoms indicate worms.
Speedy cures cannot be effected in such
San Speedy cures cannot ee eflected in sac
cases. It requires time and care to re
store such an animal to good condition store such an animal to good condition.
Get if ozs. each sulphate of iron, sul. phate of copper, tartar emetic anc
calomel; mix, and make into 12 powders give a powder night and morning. Give nothing to eat for 10 hours after he
takes the last powder. Cakes the last powder. Then, give a
purgative $\lambda \mathrm{f} 7 \mathrm{drs}$. aloes and 2 drs . ginger. Feed bran only until purgation commences. After purgation ceases, give
1 dram each of gentian. gingler and nux 1 dram each of gentian, ginger and nux
vomica, three times daily.
Exercise him daily, and feed as you have been foeding, Apply oxide of
scabs and cracks.
probably tuberculosis. Cow seems stiff and grunts while eat
ing or chewing her cud. $\begin{gathered}\text { She eats well }\end{gathered}$ ing or chewing her cud. She eats wel is failing in llesh and getting weak, She
has a desire for chewing bones and wood. Ans.-1 an of the opinion she has pul-
mouary tuberculosis, and, is so, she will not get better. As her appetite is good, and her bowels normal, we must cou-
aude that the grunt and stifness are clude that the grunt and
not due to digestive trouble. I would not due to to have her examined by your
ndvise you to
veterinarian. If you decide it is veterinarian. If you decide it is
stomachic trouble, and decide to treat stomachic trouble, and decide to trean
her yoursell, give her 2 lbs. Epsom her yoursell, give her
salts, and follow with 1 dram each sulphate of iron, gentian, ginger and nux
vomica three times daily. The abnormal vomica three times daily. The abnormal
appetite is due to a want of phosphates
an the syen in the system, and can be corrected by
giving her all the salt she will eat, and
1 dram phosphate of liwe three times

## daily. ${ }^{\text {DISTBMPER-CBRONIC COUGH. }}$

 1. Several of my horses have had dis temper, and two of ahem concringcough for six weeks after recovery.
2. Give treatment for distemper. Ans.-1. Chronic coughs resulting as a live each horse a ball composed of the following every moriling, viz,", ${ }^{2}$ drams
solid extract of belladonna, $1 \ddagger$ drams gum opium, 1 dram camphor, and 34
grains powdered digitalis, mixed with grans powderod to make it plastic.
sufficiert treacle to
2. Distemper is liable to many compli2. Distemper is liable to many compli-
cations, which require treatment accordcations, which require treatment accord
ing to symptoms. Treatment for ant
$\qquad$
$\qquad$ faw linseed oil, applied twice
the parts are bisteredd giving
3 to t drams hyposulyhite
lancing the


GOMBAULT'S CAUSTIC BALSAM A aforo spedy and
positive cure
for










Burns \& Sheipart, Propritotors,




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Clydes Hackneys
 Clydustala stallilons


 Hope Call or wita millbrook, ont Clydesdale 8tallions and Fillies.
Imported and Canadian-bred. For salo: Two





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DUKE \& BRUNER, - Ruthven. THE SUNNYSIDE HEREFORDS
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Boanthate, Ont.
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Sire. Manor De Kol's Prinoe. Dam,
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excel excellent daughters, proved last season
in their 2 .yyar-old form. Price right, as I wieh to dispose of
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WILLOW BANK STOCK FARM Laree a da old-ast biblkhed herd of short
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Prince
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 All of tho moin approved soocoh brooding
30 girophire
25 ram lambe.

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W. SHBAN \& Co,
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Shorthorns, Lincolns and Berkshires Young et ck of oither sex for sale. Reason
able. For partioulara apply to W. H. Ford, Maple Shade Parm, Dutton, on 8OOTOH-TOPPED 8HORTHORNE

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Aberdeen Hero (limp) at hend of herd, Proesn
ofroringe 8 good young bule by sootah sirees: Com LAKEVIEW SHORTHORNS Spioy King (imp.) at head of herd. Young
bulls for bale reasonably. For prices, eto. THOS. allin \& bros.,

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oheap as intend to leave the farm in
spring.
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Also achocioe lot of young Berkshires. Visitiors
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 THREE IMPORTED Four imported cows in calf, home bred cows,
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shire and Cotwold ram and ewe tombs of he higheand olass, is what moand ewow you bo of the
 A. EDWARD MEYER Brooder of Scotch Shorthorns

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Choice Sootch-bred ones, for sale at
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mpply
aprioes. J. \& W, RUSSELL, Richmond Hill,Ont. Yonge St. trolley car from Union Station,
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om Three Scotch-topped Shorthorn Bulls
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and home-hred, ario of the most fashionable
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est Cruickshank breeding. Good Size, Quality.
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Mostly imported
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Three bulls about 10 months old.two r

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 Chancollor (imp.), so tutish Beau (lmp ), Non
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 Amale at both Toronto and Ottawa this fall cows, also females, all 1 gers, for sale. Farm one mile from Maxville Station on O. A.R molnwook AYRSHIRES in sootiand head the herdo of 95 hean. Win




WOODROFFE AYRSHIRES 25 hesd for rale 4 to 20 mon ths old, from oows
named in my hard reocrd and sired by $16 t-$
 always on band at, moderate prices.
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Do you want to get a grand
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ing he for with breeding and individuality as grod as
the best? if so, write to
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 Young stock for sale at all times. 1 Intionbark. Ont
R. Remid
Farm adioino Central Kixperimental Farm.
SUNNYBIDE AYABHIREB Are now offering Leader of Meadow Bank,
the Pan-American winner, gnd three yonge
bult from year to 2 mor. old; alpo cows and
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MEADOWSIDE FARM

 Nether Lea Ayrshires - Young etock of pither
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Mr. H. J. Davis, Woodstock, Ont., Mr. H. J. Davis, Woodstock, ont.
writes: I have recently sold to Mr.
Edward Meyer, Guelph, to head his . Edward Meyer, Guelph, to head his
ne herd of Shorthorns, the imported oan yearling bull, Scottish Hero, sired mary family of Soctch Shorthorns. This
young bull possesses true Shorthorn haracter, being low to the ground, with good size, and a good head and horn,
and will, in his present owner's hands,
give a good account of himself. Have twl for sale a fine yearling imported bull, by Spicy King, also three hom
bulls of good breeding for sale."


HOLSTEINCOW
 Mill


 Maw widituan hay wid mitwaizixin wix

 MERTON LODGE ROLSTEJIS



 Lyndale Holstelins Oenm madio soow foive Ririmbinimad
$\qquad$
Woodbine Holsieins

 and
A. KENNEDY AXE: Rivorisido Alosininis









 Hilton Stock Farm Milaterine Cotwoild
 Rarticularswrite to P.O., Erfghton Tel E sin. High-class Registerad Holstelins. Young
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If we could show you the roofs on the Government buildings, railroad buildings, farm and poultry buildings all over the world, covered with

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We would sell you the roofing for the next building you put up or re-
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Do you want
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Government experts say the only fruit worth shipping is from Sprayed orchards. shipping is from Sprayed orchards.
Get the foreign buyers into your district by offering them perfect fruit. You want the best prices.

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It's the most economical machine made. It is eonly one used by the Dominion and Provincial Hand Power. Horse Power and Engine Power.

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T. E. BISSELL, manumaotumen, elora, ontario. DEPT. W.

## Joseph Rodgers \& Sons SHEFFIELD, ENGLAND.





## | CURED MY RUPTURE When   

ossis Mr. John Lahmer, Vine, Ont., writes

- My Berkshire pigs have came throug the winter very nicely, and the young
sters arriving, sired by Concord Triumph, are very promising. $\begin{aligned} & \text { This hog is de } \\ & \text { veloping into a good, big pig, has plenty }\end{aligned}$ veloping into a good, big pig, has plenty
of length, with the best lively and active as a horse, with a ver quiet disposition. With the increased
prices of live hogs, will naturly an increase in the demand for breeding
an purposes. For some time I have bee
booking orders for spring delivery."
 writes: "Enclosed please find \$1.50 fo joy
like
like
an $\qquad$
$\qquad$ breeding on a large scale, and I think statement 'that attention is not paid to
choosing of brood sows. is certainly wrong, as for quite a few years nearly all the hog breeders around this distric
have been importing breeding stock from both the States and Eastern Canada, and' I think that the breeding stock or
the whole in this district is far above the average."
Among the most enterprising of Cana datle is Mr. R. R. Ness, of Howick
cattle
Que. who. Que., who, although quite a young man
has established himself as a first-class luas estabished and breeder of dairy cattle- Ho
juder
has about 60 bead now has about 60 bead now on hand, and
anticipates taking a trip across the At anticipates taking a trip across the At
lantic in a few weeks to pat some mare lantic in a few weeks to get some more.
The herd is headed by two imported hulis, viz, Barcheskie King's Own 5695,
hred by Andrew Mitchell, Chief of Hillhouse 4601, by Prince Im-
perial of Netherhall. dam Derby 1st Rigghead 11479, assisted by Monkland Speculation 5666 a aften-months-old
hull, by White Cockade of Nethercraig
ors. 2852, hy Cockie's Heir of Chapelton
2200, dam Beauty of Orchardton 9448 2200. dam Beauty of Orchardon 9448,
by Craig's of Kyle o ${ }^{2}$, Drumjoan 1793, one of the greatest milking stock pro
ducers in Scotland. Mr. Ness considers
this this young bull one of the best dairy
sires that has ever crossed the water He is not only strong in dairy-producing
points, but has behind that of a grand
pedigree. Some of the cows have been
 thing choice. A draft from this herd
was shown at the Dominion Exhibition.
1904, Winniner and landod seconds, nnd some third prizes, as wel
as one champion As one champion and one diploma in a
strone class. They were then sold to an
The stronk class. They were then sold to
American who showed them at St. Louis
where they


IMPERIAL STOCK FARM HOLSTBINS.
 the gire of frirti-prize herd at LiLndon. HAPLIE PARE FARMC HOLSTITINB, Two oholoo bull calveg for sale , sire Hom-
stoad Allbino Paul De Kol. Also two 1 -yearold heifers with Tolb. dams .
DO N ${ }^{-T}$ W A T T BE UP-TO-DATE
 W.W. EVERITT, Dun-edin Pa.pk Farm Box 552, Chatham, Ont. 0 to ohoose from. 74 First Prizes, 1901, B. H. BULL \& Son, Brampton, Ont. Bairen Cow Cure make8 any animal under fund money Given in feed twice a day. getting two of my coow in calileone 10 years
old, and had previously been served repeated. seld and had previously been served repeatedd-
iv, to no purpose"-
Rays M. M. Reeder, Mancy, Hamoshire Down Sheep
gREAT ENGLISH PEDIGREE SALES
July, August and September, 1905


50,000 PURE-BRED
EWES, LAMBS and RAMS
Including both rams and ewpe from the
bestt regitered prizewinning flocks
int Commissions carefully executed. Address: WATERS \& RAWLENCE, HAMPSHIRE DOWN

## SHEEP.

"RESERVE" for CHAMPION in the SHOR LASSES, SMITHFIELD
LONDON, 1904.
Splendid Mutton, Good Wool, Great Weight This highly valuable ENGLISH BREkiD
OF SHEEP is uni ivalled in its wonderfully barly maturity Hardinesf of constitution, adapted to all
limates. whilst in the quality of natton and
isrge propertion of lean mae it it unsurpaseen, and for cor cosing parpo.es with any
other breed unequalled. Full information of JAMES E. RAWLENCE

SRCRETAKV Hampshire Down
SHEEP BRERDRR' Absoctation
THE RIBY HERD and FLOCK SHORTHORN ${ }^{\text {os }}$ LIN LINCOLN

CATTLE SHEEP
he largest of each in England. Established
150 years, with world wide reputation both in

 ons for sale.

APRIL 6, 1905
SOUTHDOWN SHIEIEIP
 CONSTITUTION AND EAAR
NESS OF HATURITY.
STREIDE \&E SON sELL BY AUCTION ANNU
PURE-BRED SOUTHDOWN SHEEP








## W. W. GHAPMAN,

Sceretary of the National Sheep Breed-
Soerratary of the Kont op Romney Marsh
Sheop Breeders' Assoelation,
and late Seerotary of the Southdown
 parponily soloetod and oxportod on oomAddross: MOWBBEAY HOUSE, NORFOLE ST. LONDON, W. C., ENGLAND.
THE MARHAM COTSWOLDS
 posed of annually. Fifty-second an
nual ram letting, nual ram letting,
JULY 27 th,
1905
T. Brown \& son. $\begin{gathered}\text { marham } \\ \text { Downhan Market, Norfolk, Eng. }\end{gathered}$

Dorset Horn Sheep

 always on hand. WOODSIDE EARM Southdown Sheep
$\begin{aligned} & \text { o } \\ & \text { JoHite for what you want to } \\ & \text { JACKBON, Abingdon, Ontario }\end{aligned}$ OHOICE SHROPSHIRES
Always on hand, of the choicest quallity and
breeoing. Our winnings this season: 38 frrats,
orn
28 sooonds and 14 thirds at 9 shows, including
Toronto and LJondon. Lloyd-Jones Bros.
Burford, Ont.
Dorset Sheep and Large Forkshires. A




 IMPROVED LARGE YORKSHIRES Pigs six to nine weks old. from imported
stock. ${ }^{\text {Pairs }}$ and trios not akin. Sows from
four to six monthe old.

ROGERS, Emery, Ont.
TAMWORTHE AND HOLSTEINS




## TAM WORTHS



## - HILLCREET HERD OF

ENGLISH BERKSHIRES

THE FARMER'S ADVOCATE.


Improved Claster Whitos wid Tancoritis


 H.GEORGE \& SONS, Crampton,Ont LARGE INELISM EENKGNITT


1901, ORCHARD HOME HERD Regitered)






Oakdale Berkshires
 order for a pair or trio not akin. Owing to unforeseen oircumstancoes, 1 have
been unable to aupplv customer for Write me if you want ont For sale, oheap, Write ue if you want any. For sale, oheap,
purobred Berkahire boar, registored
F. S. Wetherall, Rushton Farm, Cookshire, Quo. YORIK 日HIRIE for salo, all agee, from importod prizewianing
stook, of both sexes. Palre not alin. GEO. M. SMIITH. Haysville P. $0^{\circ}$. Ont. Tammorth Swine and Shorthoril Cattlo We have for quick sale some 50 head of Tam-
worth swine inoluding several boars reed for



 can generally bupply you.
OOLWILL BRO8.。 NEWOABTLE, ONT. Now is the time to book your ordprs
for young pigs for May and June de-
ivery. A few good young boars on
He Will Oure You First
Then You Pay Him
 Value he has given the patient, money fort the he fexpect
toprove his worth and show positive and satis
actor
ho

 tites or Canala, who has had suffcient connf
dence in his ability to say to the afflicted thant no













## LARGE ENGLISH YORKSHIRES

 and.

## cossip.

 Mr. Gerald Warde, Secretary of theCpen-Air Horse Parade Association, has Cpen-Air Horse Parade Association, has
received a letter from the Hon. Nelson Meceived a letter from the Hon. Nelson
Monteith, Minister of Agriculture for On-
tario, and from the Hon. Adam Beck, London, Ont., accepting the position oo
patrons of this Association and wishing patrons of this Association, and wishing
the third annual Open-Air Horse Parade
end Show every success and Show every success.

The
Driving
annual
Club,
report
containing an the tornto Driving Club, containing an official tions, etc.. and embells ashed with por
traits of the President. Ald. S. McBride; the Treasurer, J. H. Lock, and Secre tary, H. Gerald Wade, has been issued,
and is a credit to the latter offcer.

Mr. D. Hill, evergreen specialist, DunMr. D. Hill, evergreen specialist, Dun-
dee, III. has issued his annual catalogue
for 1905, which will be found interesting for 1905 , which will be found interesting
to tree growers. It contains many
It varieties in addition to evergreens. The
condition of his nurseries and freedom
 by State Entomologist S. A. Forbes.

- CAUSTIC balsam gives univer-

Wapella, N.-W. T., Canada. The Lawrence-williams April $22,1904$. Please send me by mall any nice show
cards or advertising matter cards or advertising matter so I can
 fection. Yours for push and sales.
JAMEs James a. Maddonald.
cattle, held at Guelph, Ont., on March
22nd, under the aupices of the Cuelph 22nd, under the auspices of the Guelph
Fat-stock Olub 48 bulls sold for an average of $\$ 78.78 ; 18$ females brought an average of $\$ 76.12$, and the 61 head sold made and average price of $\$ 74.77$.
The highest price was $\$ 250$ for a Here ford bull, Forest Pride, contributed by John A. Gowanlock, Forest, and pur-
chased by Robert Hanna, Bostock, Ont. The highest price for a Shorthorn bull
was $\$ 125$ for Prince of Chesterfield, contributed by John Currie, Eramosa, and At a meeting of the cattle committoe
of the Western Fair Board, held at London, March 25 th, the prize list was re
vised, the only change of importance made being in the herd prize for Hol
steins, which will this year be graded herd, namely, one bull, one cow four
years old or over, two-year-old helfer, yearling heifer and heifer calf. The fol-
lowing were appointed fudges : Short-horns-John Isac, Markhams reserve,
Jas. Douglas, Caledonia. Herefords, Angus and Gallowayo-R. J. Mackde
Oshawa; Waiter Gooding, Guelph. Jerseys and Guernseys-Rock Bailey, Union; J.
L. Clark, Alloa. Ayrshires-Jas. Boden, St. Anne, Que. : Geo. McCormack, Rock
ton. $\quad$ Holsteins-B. Mallory, Frankfort M. Richardson, Caledonia.
the ferguson sale
Mr . George Ferguson's (Salem) sale of
Clydesdale mares, Shorthorn cattle and Oxford Down eheep, which was held on Friday, March 17 th, was very well at-
tended.
There were no startling figures; in fact, the bidding on the cattle wa,
somewhat draggy. Messrs. R. A. \& J A. Watt, Salem, got the highest-priced
ones in Lady Peer, by Sotithber ones in Lady Peer, by Scottish Peer
(40424). She is a fine massive heifer, about twenty-nine months old, with a calf at foot by Royal Archer (imp.). Bon
Accord Belle (Vol. 18), a fine four-yearold cow with calf at foot, by Primrose
Day (imp.) 50072 , went to Thos. Wallace, of Clifford, at $\$ 100$. She will make
a fine addition to his herd. Twenty females realized $\$ 1,612$, an average of $\$ 80.60$ : two bulls, $\$ 60$ each.
The mare, Lady Lynedoch, rising ive got by Master Lynedoch, from Lady
Laurier, and in foal to Red Duke (imp.) went to Thos. McKeag, of Wiarton, for
\$290. Queen Ella, out of Queen Bess, and sired by Just the Thing, rising three,
and in the pink of condition, went
Cal Calvin Green, of Hillsharg, tor the even
$\$ 300$. The sheep sold very well, though
They they were not so fine quality ha the
cattle and horses, some if the ewnes bringing $\$ 16$ each.

In answering any advertisement on this page, iindly mention the FARMER'S ADVOCATR.

GOssilp.
Once more hogs are in the ascendant.
Present prices for bacon hoge for Present prices for bacon hogs for th
packing-houses illustrate the wisdom farmers who "sticks to the gintlemin
that pays the rint:" that pays the rint." Get good brood
sows and keep them. Do not " jump out of pigs ". when prices sag down, only
to be sorry when the next rise in prices to be sorry when the next rise in prices
comes. Mr. L. Rogers, of Emery, Ont., in this issue makes attractive offering
in pairs and trios of Improved Larg Yorkshires, not aking, and sows from four to six manths old. Look up his adver-
tisement. $t$
W. H. Tran, Cedar Grove, Ont., breed er of Ayrshire cedarte and Yorksire piga,
writes ! "/ Prince of Menie (16189), of very fine Ayrshire type, heads the herd
of Ayrshires, has taken first whenever shown. Have a herd of about thirty, with some nice ones to choose from. In
Improved Yorkshires Improved Yorkshires, Broomhouse Joe
(14537) (imp.), the stock sire, is a vory (14537) (imp.), the stock sire, is a very
fine hog, has been first when shown.
Have imported and home-bred sow, Have imported and home-bred sows,
stock of both sexes for sale. I am
one of the oldest breeders in try, my father and I having bred York shires for over thirty years."

Mr. H. W. Truman, manager of the porting farm, writes the "' Farmer's Adfrom my father, Mr. J. H. Truman, that irom my rather, Mr. . H. Truman, tha
he had left Liverpool per S.S. Victorian with another large consignment of stal-
lions for our everincreasing trade. He lions for our ever-increasing trade. He
particularly mentions having on board a son of the London champion Coour-de-
Lion, and four grand young thon, and four grand young horses, by
the world-famed sire, Blaisdon queror. Our Mr. J. G. Truman wires has sold two imported Shire geldings
to the Jos. Schlitz Brewing of Milwaukee, for the sum of $\$ 2,400$ We We
have just received another Shire, Percheron and Hackney stallions at London, Ont., which makes the fifth during'the past seven months. They are
browns, blacks and greys; big, weighty fellows, of great substance and full quality. With those already on hand,
we can show intending huyers one of the best collections of stallions in Canada "Amongst the recent sales from our
London stables is that of the importe Shire stallion, Heavy Tom (22425), a
photo of which appeared in the ${ }^{\text {Farm }}$ er's Advocate' a short time since. This colt will be remembered as a winner at Chicago last year, where he was much at mired by many good judges. He is one sure to produce the kind of geldings that is in such great demand just now, and
the Middlemarch \& Yarmouth Shire and Percheron Horse Company, of st . Thomas, are to be congratulated upon
securing this grand young horse. This is securing this grand young horse. This is
the second stallion this enterprising company has purchased from the Truman Stud withi
Messrs.

 ing several U. S. importing firms, re-
turned to London and secured this grand young horse as their cholce.
to prevent retention of afterA Halton County, Ont., reader writes
the ". Farmer's Advocate " re preventhe "Farmer's Advocate" re preven-
tion of the afterbirth in the case of cows as follows:
Cows, when due to calve, should be as near the same condition in winter as in
summer; that is, the bowels should be
well rele summer, that is, the bowels should be
well relaxed. Therefore, a few days be-
fore freshening, feed salt freely, and a few hours, or half a day, before freshening, do not give cow any water to drink;
so, after freshening, she will be ind a thirsty condition. After she freshens, about half an hour with all the water given as much as five pails of water. have My
idea is that when this away, it loosens and brings the afterfreshen since Christmas, and not one of
them gave any trouble or and freshen since Christmas, and not one of
them gave any trouble or cot me a
cent. I just followed th1s simple and
natural course with entire astmotaction.

THE CANADIAN PORTABLE FENCE CO., Toronto, Canada.
Do you want Portable Cross = fencing this spring? THE ONLY FENCE for tomporary pastures, for dividiny large fields, and general cruss-
fancing Or do



## Why do "Page Fences Wear Best"?

BRCAUSR-They are made of wire $50 \%$ stronger than Common Spring Steel Wire so called BRCAUSM-The horizontal wires are COIMND. Mind you, COILMD, not CRIMPRD. A COIL pives several times the elasticity that does a crimp. This COIL is what enables Page Fences to do with posts lons distances apart.

Our prices are very low, as you can judge for yourself when we tell you that we can
 deliver an 8 -wire, HIGH CARBON FENCE, to any station east of Manitoba, and wherever we have a dealer, an experienced man with the proper tools will assist in putting the fence on the posts, if the order is of fair size, for not to exceed 41 cents per rod. All of our other styles in proportion, some for less money and some more.
We have all kinds, some close mesh ( 19 bar, 57 inch), some light ( 5 bar, 36 inch), some heavy (all No. 9 gauge.)
The railroads use Page Fencing in large amounts. Practically every road in Canada is using it. Look at this list, the first four of which each have from 100 to 1,000 miles in use, and the others each have from 10 to 100 miles:

| Grand Trunk Ry. | Prince Edward Island Ry. | Central Vermont Ry. |
| :--- | :--- | :--- |
| Canadian Pacific Ry. | Chateauguay \& Northern Ry. |  <br> Intercolonial Ry. |
| Canadian Northern Ry. | Lake Erie \& Detroit River Ry. | Pontypool Ry. |
| Coronto, Hamilton \& Buffalo Ry. | Bay of Quinte Ry. |  |
| Canada Atlantic Ry. | Michigan Central Ry. | Algoma Central Ry |
| Great Northern Ry. | Halifax \& Southwestern Ry. | Baie des Chaleurs Ry. |
| Quebec Southern Ry. | Cape Breton Ry. |  |

Now, you know railroad corporations do not buy large amounts of goods, and keep on buying the same kind year after year unless they prove by use to be good value. Railroad men now acknowledge that PAGE FENCE is the best and cheapest.

NOTE-All Page Fences are now painted WHITL-our special distinguishing mark. Get the WHITE brand and you will have our make of fence.

Also Page Gates, from $\$$ r. 75 up. Ornamental Lawn Fence, from 20c. per running foot. Also Poultry Netting.
THE PAGE WIRE FENCE CO. LIMITED
WALKERVILLE, ONT
BRANCHES: MONTREAL TORONTO ST. JOHN WINNIPEO "Page Fences Wear Best."


QUESTIONS AND ANSWERS. Miscellaneous.
treatment of clean seed potatoes. Would you advise me to soak clean poatoes in formalin to prevent scab, or do you think it would be better not to soak hem ?
ARE THERE ANY DUROC-JERSEY BREEDWhere can I secure a Duroc-Jersey pig ? Ans.-If breeders of Duroc-Jersey swine re not taking advantage of the adverising columns of the "Farmer's
ate," they should do so at once.
mixing straw with corn for ensilage. I am about bulling a silo this coming summer. Is it advisable to cut oat straw with the corn when putting it in, sat half of each? GRENVILLE. Ans.-No ; nothing has proved superior, if equal, to well-matured corn with a air share of ears for making good ansilage
pias dying.
My sow had a 14 ter of thirteen, and all died but one ; sow in fafr condition and good to them. I fed her on ground oats and bran mixed, also a ilvtle milk; had plenty of milk for pigs. ligs sedying at about from two to three weeks old. They would at first appear very dull and careless about feeding, and breathing was short, not unlike a horse after being hard driven. Many others have died with my netghbors. Do we feed our sows too well, or would some other feed be more suitable? J. N. Ans.-This trouble is liable to occur in
the case of early litters, where the sow he case of early litters, where the sow
and pigs are closely confined and do not get exercise. The pigs got too sat, get exercise. is known as atty degenera-
causing what is
tion of the heart, or thumps. tion of the heart, or thumps. The heart
fails to force the circulation of blood, the whole system becomes clogged, and death ensues. The secret of success in pre-
隹 venting the trouble lies in induoing, and,
if necessary, enforcing exercise. This we if necessary, enforcing exercise. Ther we
know is dimeult in cold weether, when the pigs cannot go out, and it can only be effected by giving them a run in the passages of the pen, switching thom
around or brushing them about with a
broom, if need be. This, and getting around or brushing them about whis, and geting
broom, if need be. This ond
them out on the ground on the sunny them out on the ground on the sunny
side of the building when practicable for an hour or two, is the only hope. an four or toes not appear to have been
The feeding do
fauty, but if the plge are getting very faulty, but if the pige are geting very
fat without exercise, there is danger fat without exercise, there is danger
ahead, and th3 dam's feed should be re ahea,
stricted.

Veterinary.
-
moscular aton bind mervous irritaThe muscles of my horse's shoulders and elbows,
neck, tremble, especially after drinking cold water or after exercise. H. M. D. Ans.-This is due to want of muscular tone and Irritability of the nerves, an
will probably disappear when he is put will probably disappear when he is put
to regular work. Give him regular but not excessive exercise, and gradually increase the amount of exercise day by day
Rub the muscles well three times with camphorated liniment, aud give him camphorated
drams bromide of potash three times
daily daily. indigestion.
Two-months-old call has sunken eyes ; 40. It has been getting separator milk up. It has been getting separa.or
and whole oats.
a. W. M. Ans,-This is indigestion, $\begin{gathered}\text { probably } \\ \text { Oats for }\end{gathered}$ caused by the whole oats. Oats for
calves should be finely chopped, and the hulls silted out. purge him with 4 ozs. hulls sinteed outl. If he will not drink, drench him with new milk, with about
$t$ of its bulk of lime water. If he will drink, give about that proportion of
lime water in new milk. Give 20 grains each gentian, ginger and nux vomica
twice dally.

IITES makes the most dollars for you, because it is the simplest in construction-has few
parts-turns more easily-lasts longer-more easily cleaned-gives less trouble.


EMIPIRE CREAM SEPARATOR COMPANY,
st.: west

## Nine Nations

Now UAE Liquozone. WYon't You Try It-riee?

|  |  |  |
| :---: | :---: | :---: |
| tions, are constant users of Liquo- | hilarating, vitalizing, purifying. Yet | Bczema-Krysipelas |
| ne. Some are using it to get well ; | it is a germicide so certain that we | Ooitre-Gout Varicocele Oonorrhea-Gleet Women's Diseases |
| me to keep well. Some to cura germ | publish on every bottle an offer of | Gonorrhea-Gleet <br> All diseases that begin |
| ne was ever so widely employed. | not kill. The reason is that germs | tion-all catarth-all contagious |
| coe ugors are overymhare! your | are vegetables: and Liquozone-like |  |
| ighbors and friends are among them. | an excess of oxygen-is deadly |  |
| nd half the people you meet-wher- |  | 50c. Bottle Free. |
| quozone has cured. |  | eed Liquozone, and have |
| f you need help, please ask some | kill germs in the body without killing | ried it, please send us this |
| se users what Liquozone doe | the tissues too. Any drug that kills | coupon. We will then mail you an |
| n't blindly take medicine for what | germs is a poison, and it cannot be |  |
| 1 |  | size bottle, and we will pay the drug- |
| germs. For your own sake, ask about Liquozone; then let us buy you a full- | knows that medicine is almost helpless in any germ disease. | gist ourselves for it. This is our free gift, made to convince you; to show |
| size bottle to try. <br> let us buy you a full. | less in any germ disease. <br> Cerm Diseases. | hat Liquozone is, and what it |
| (e Paid S100,000 | These are the known germ diseases. | accept it to-day, for it places under no obligation whatever |
| the American rights to Liquo- | All that medicine can do for these troubles is to help Nature overcome | under no obligation wbatever. <br> Liquozone costs 50 c . and $\$ 1$. |
| oduct for two years, through physi- | the germs, and such results are |  |
| and hospitals, after proving, in | the germs, wherever they are. And |  |
| thousands of cases, | when the germs which cause a disease |  |
|  | are destroyed, the disease must |  |
| Liquozone has, for more than 20 | Asthma Ha |  |
| chemical research. It is |  |  |
| made by compounding drugs, no |  |  |
| h alcohol. Its virtues |  |  |
|  |  |  |
| us and 14 days' time. The result | Colic-Croup Pleerisy-Quis | $\mathrm{D}_{306}$. ${ }^{\text {at.................. }}$ |
| a liquid that does what oxyg | Constipation ${ }_{\text {Catart-Cancer }} \quad \stackrel{\text { Rheumatism }}{\text { Bcrofula }- \text { Plyhilis }}$ | Give full address-write plainly. |
| d-the most helpful thing in | Dysentery-Diarrhea Skin Diseases | ny physician or hospital not yet using Li |



We present our case to you in all fairness. Our arguments are born out by facts. Our testimony is confirmed by unimpeachable witnesses. We know that Gin Pills cure all Kidney Troubles. We know that Gin Pills cured hundreds whom nothing else could relieve.

Canadians are our judge and jury. Such confidence have we in the strength of our case, that we make this sweeping offer

## Monev Back if GIN PILLS Fail.

If you have sharp, shooting pains in the back and through the hips-if the hands and feet swell-if the urine is highly colored and offensive, scanty or too profuse-if you are compelled to get up during the night-if the stomach is bad, the bowels irregular, and the appetite poor-get GIN PILLs. They will cure the sick kidneys, take away the pain, make you eat and sleep, and build up the whole system.

Remember our guarantee: GIN PILLS CURE or your money back.
$50 c$ a box. At your druggist's, or from us direct.
THE BOLE DRUG CO., Dept. v, Winnipeg, Man.
vossist
Mr. D. A. Graham, Thedford, Ont., informs us that his poultry are this sea-
son better than ever, having many prizewinners, also a number of imported birds which should give the best results. He is prepared and endeavor to give all his customers good value for their money Mr. Jas. Douglas, Caledonia, Ont., writes:
I am sending a change of advertisement "I am sending a change of advertisement
for next issue, as I have sold all the Berkshires I care to offer just at present; but have a very fine lot of young Shorthorns
yet of both sexes, Scotch and Scotch-topped-good ones, and in good condi-
tion, and first-class families to select tion, and first-class families to select
from, mostly all by imported sires and heifers bred to imported sires."
Colwill Bros., Newcastle, Ont., write: ". We have recently sold to to Mr. W. War-
ren Morton, Russellville, Ky. Write ren Morton, Russellille, Ky., U. S. A.,
king of Tamworth swine breeders in that sunn country, ten head of as fine Tam-
worths as ever crossed the worths as ever crossed the line, some of
which we were very loath to part with which we were very loath to part with,
but the tempting price was the induce ment. One was Colwill's Beauty, farrowed March, 1904, sired by our famous
old stock hog, Colwill's Choice 1343, and old stock hog, Colwill's Choice 1343, and
out of the beautiful show sow, Newcastle Minnie, sired by Imp. Whitacre Bruce, This sow was one of a group of four
which won the first prize for four pigs which won the first prize for four pigs
under six months, the get of one sire,
and fikewise first and hikewise first for four pigs, the pro-
duce of one sow, at Toronto. She ha duce of one sow, at Toronto. She has
been bred to Glenholm Edward 3350, albeen bred to Glenholm Edward 3350 , allength and heavy bone. As Mr. Morton is a man of great enterprise, we predict a future of great success for him. Every
pig he purcbased from us was pig he purcbased from us was of the up-
to-date bacon type, and no Canadian could have shown better judgment in
selecting them. As we are sold out of selecting them. As we are sold out of
all sows over eight months old, kindly drop that part of our advertisement. We, however, wish to especially draw the
attention oi your readers to attention of your readers to a few beau-
tiful boars we have to offer seven to twelve months old. These ar
right right good ones, and are ready for
service. They would do credit at the head of any herd, and will be sold at
moderate prices .,

Hillhurst Shorthorns are well known by
all the principal breeders in Canada to day. The herd was established many
years years ago by the late Hon. M. H. Coch-
rane, with individuals of breeding, peying some of the largest
figures, if not the figures, if not the largest, ever paid by
a Canadian in Great Britain. The herd is now controlled by Mr. Jas. A. Coch rane, who will esteem it a pleasure to
answer enquiries in answer enquiries in reference to the herd,
or to show the animals to There are at present in the herd 9 young bulls, 7 of which are ready for service, all reds, except one, and good enough
to use upon the best cows of the breed or in upon the best cows of the breed
Among them is
Mountaineer 51949, twenty months old, by Lord Mount Stephen (imp.), a sire
that has gone to the U. S . at a big Fince for a show and stock bull, dam
Imp. Alpine Beauty 2nd 31164. This is
a a growthy, stylish bull. Lord Mount
Royal 51947, by the same sire as above,
 is a deep, low-down bull, from Imp.
Doris 3rd. Welcome Morning 51950 ,
eighteen months old, by Frosty Morning 44973, a first-prize winner at Sherbrooke, Wue., Hy Joy of Morning (imp.), dam
ecalcme Hillhurst (imp.), is one of more
scale than the anvernge bill, scale than the average bull, being both
lengthy and deep. Beaumont 54822 , sixteen months old, is a dark roan, by
Scottish Beau (imp) 36099 , dam Royal Beatrice 20536. The other bulls on hand are equanty well bred, just as good in-
dividuals, and are a thick-fesh dividuahs, Mare a thick-fleshed, low-set sargain, if taker soon. He can also
supply some fine cows and heifers to one in some fine cows and heifers to any-
cated such. The farm is lo cated about $1 \frac{1}{3}$ such. The farm is fo-
Station and from Hillhurst million and post office, and abomurst
about 2
and miles east of Montreal, on the Gue., T. R.
If Mr. Cochrane can get enough first-class Shorthorns consigned to make an attractive offering, he he intends to hold a
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