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 <br> <br> Farmer's Jdvand Home Nagazine
}

LONDON, ONTARIO, MARCH 7, 1907.

## EDITORIAL.

LET US TRY THE SPLIT-LOG DRAG great part of the road mileage in Canada the virgin bosom of considerable time to come, diate and important prother Earth. An immeearth roads in the best possiblew to keep these doubly important because a good earth. It is the proper foundation for gravelling or macadamizing when the time for it arrives. There are three primary essentials in the construction and care of good earth roads

1. Good drainage, both surface and subsoil. In many cases this necessitates underdrains, not only under the ditches, but beneath the center of
the roadbed as well. If half the money spent many townships in gravelling had been spent by in properly draining the roadbed, we would have ar better roads to-day, and roadbeds which it age demands, also, ditches thatingel on. Drainage demands, also, ditches that will carry the
water freely a way, instead of holding it to soak under and impair the road-bottom. Ditches must be kept open and plenty of culverts provided. 2. Grading is advisable in nearly every c although undue emphasis has sometimes been placed on grading. Grading which raises the crown by dumping red clay from ditch-bottoms on top of a good loam surface often works mischief. One of the best earth roads we have ever seen is a "give road "that never received much attention. It has shallow ditches and is slightly soil and never wuts ing surface is of light loamy rading is geod, but should be done with judg ment

Every clay or even clay-loam road should be kept smooth by frequent use of some leveller or
drag. It matters not how steeply the driveway is graded, if there be clay in its composition it will cut up under traffic. Ruts and hoof prints will hold water to soak into the road, and If the road is on a hill or incline, water mire down the ruts, wearing out channels in the center of the road. Or perhaps mudholes are formed, ) be punched deeper and deeper by each team. The net results are that much of the road surface is worn away and carried to ditches or creeks. Worse still, water stands and soaks down into
the subsoil to soften and render it unfit to bear the subsoil to soften and render it unfit to bear
the weight of traffic; for the subsoil must stand this in every case. The water from succeeding ains is heid, to be mucked up by travel, whereas Should shed quickly to the ditches.
ur clay roads for the frequent is more need on rather than for the annual employment a leveller rather than for the annual employment of an ex-
pensive grader, albeit the latter is its place. But many townships ite is valuable in reliance on the latter implement, have spent their available money in buying and using it, leaving little or none to keep the roads smooth after the grading was done. Consequently the road gets pensive grading to repair damages eating more C ler levelling, with a this co prevented by dragging leveling, with a consequent saving of money no a greatly improved condition of the road. he common Ontario leveller answers well, but o g drag has been implement, called the splitdrag, has teen extensively tried in the United ential diference betwem the bexcellent. The ag is that the former is hauled over the the en they are more or less dry, while the dracg it dvised to use to puddle the clay surfece whit
still muddy. Probably the greatest advantage of the drag over the leveller is that it can be used vefore one can work on his tields.
So strong is the American endorsation of the drag, so favorable the few Canadian reports we
have had, and so reasonable simple the idea, that " "The Farmer's simple and cheap is operation with the Public Works Devartment of the Ontario Government, has decided to institute a widespread experimentation with this impleoffer $\$ 100$ inout intario, and has concluded to the use of the drag on our earth read results in mer. The conditions, printed elsewhere, simple and easy as anyone could wish., re as pense of making and using the the ex each individual, and the benefits, we feel sure, will outweigh the cost of the demonstration case it will be an encouragement and assistance in the solution of the good-roads problem, and we appeal to the public spirit of our readers to make the competition a success. The time for making application is short, March 27th. Read the conditions and send in your name. A post card will do, stating that you wish to enter our split-log-drag competition, and are willing to make a drag and use it at least five times this summer on a mile of road in your vicinity. The motto of this competition is, "Let us try the split-log drag." The inspection and awards will be made by Mr. A. W. Campbell, Good Roads be sent to the office of "The Fine entries must en en " The Farmer's Advocate,"
western winter and live stock. The question is being asked among Eastern
stockmen and farmers, as well as those in Western Canada, what will be the immediate or ultimate effect of the present extraordinarily severe winter on the prairie plains? Not only has the weather for the ere, but the snowfall exceptionally heavy for the range country, and unrelieved by the snownering soobly that in former seasons was infying hertage blow. Lerge qumbers the satis have been starved and frozen to death altle survivors emaciated so as to seriously, curtail the Western beef supply of the early summer at least. To what appraisal the losses will finally resolve hemselves, it is not easy to conjecture, though a good many estimates have put them at from 40 to 50 per cent. Some have quickly concluded that the winter has given a black eye" to ranching. Accompanied by the great demand on the grazing areas for farm settlements, the domain of the cowboy will be steadily and surely resuited and even on those lands particularly ruited to the "free and-easy" system of stockbearing, the tendency, where extended leases can the way of shelters emergencies. That this season's work to the permanent detriment of the Weat wo do not believe, because, with all its acknowledged drawbacks, compared with Eastern Canada, it is 80 rich and sound a land that, under more gradual and rational methods, it will continue to advance, though at a more wholesome pace. Apart from the insatiable markets of the eutside world for meats and other animal products, the West, with its fever ment and tonstruction, increasing rural settle ahead of the capacity of the railways tone on far olling stock ready there, will provide a largely-increaple alsumptive demand and we therefore ena swing in the direction of mixed farming to
stock-raising on the Western farm as the fascina tions of wheat-growing wane. In other words, more meat will be wanted, and it must come from West pursues the instead of the ranch, unlea thei animal foods and shipping away their fertility in the form of wheat. From this point of view, the outlook for the breeder of pure-bred stock would certainly appear to be better than before the advent of the rigors of the winter of 1906-

## GROW MORE CORN.

The fact that Canada imported from the United tates for consumption, in 1905, Indian corn to the value of $\$ 5,588,891$, besides $\$ 634,636$ worth feed for stock, and.paid for in of which fs used as of this country, who ought to grow their own farms nearly all the feedstuffs they need, showld cause us to pause and consider whether we camnot materially reduce that expenditure, if not wipe it out entirely. While the cultivation of corn for ensilage purposes is being steadity extended, and the silo, as a profitable source of cheap and satisactory feed supply, is steadily gaining in favor, the raising of the crop for the ripened grain has made comparatively little headway in this country, although it has been demonstrated that there are considerable areas in Ontario and in some sections of the other Provinces where abundant yields of the matured crop may be counted on majority of the quite as much certainty as the that most of the cultivation and har $w$ o corn crop may culivation and harvesting of the orse-power and machinery the lebor problom in his connection is little more serious than in the handling of grain, while corn, well managed, yields heavily of the best of fattening foods, andat the same time provides in its stalks a great weight of fodder, which, if judiciously handled, may be utilized to excellent advantage in comination with other foods in carrying cattle hrough the, winter in improving condition.
Corn and clover has been aptly designated by writer in this issue "a royal pair," and it is practically certain that where these crops can be successfully grown they constitute a combination supplying the requirements as a balanced ration, at a minimum if of the animal economy same time serving an of production, while at the tation of crops in maintaining the fartility a ro land, keeping it free from the roblory io weeds, and preparing it well fr or noxious of any kind. Presuming that the foregoing claims are well founded, does it not logically follow that the possibility of extending our corn-growing areh and enlarging our production of this crop should engage the earnest consideration of Canadian farmers? And to this end, should not the study of the breeding and improvement of seed corn, and the adoption of improved varieties along the lines of early maturity and increased yield, enexperiment stations, more than heretofore of our experiment stations, experimental unions and vancement of scientific agriculture object the adtion is being given to this subject Much atteninstitutions in the United States, and similar sibilities of improvement in the productive posleeding value of certain varieties of corn hess and shown to be very great, while the boundar been the territory in which corn can be profitably cuiltisteadily extending. Among the facts that are been demonstrated is that there is acts that have

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ith this paper should be addresed as below, and not to an idunal poaper shoold we be addreses.
THR WHE FARMER'S ADVOCATE, THE WILLIAM WELD COMPANY (Lorted), Lompon, Cariada
difference in the productive value of different ears of corn of the same variety, seiected from the nearly alike that no man lon the most productive except by actual the will be the difference in production from the seed of these apparently-similar ears, planted on good ground in the same field, on the same day, and give equally good cultivation, may be anywhere from ten to thirty bushels an acre. Another clearlyestablished fact is that seed of apparently equal quality will do better under the environment in which it was grown than under any other environment; in other words, that the corn that is grown nearest home, on similar land, will do better than corn of the same variety that is grown at a distance. Experiment Station
the Nebraska Experiment Station from corn grown in .Nebraska, yielded 82.5 bushels on an average nois yielded 72.3 bushels, or bushels in favor of the home-grown seed 10 also been proven that there is a considerable has ference even in counties, seed of the same variety brought from a distant county in the same State producing much less than home-grown seed under similar conditions of soil and cultikation.
Another point to which our corn-growing the best results, is the testing of their seed cocure for germination before planting, as it is claimed, appearance of the oar iservation, that the outward for seed, and that no one can tell the germinat ing power of corn until he has actually tested it. When we reflect that the bulk of the seed corn planted in this country is purchased at a distance, without a, pretence at inguries as to whether any helaving lain for months in heaps in thest of it tate, exposel t.. the heating process, and planted "Whout previous that our poole germination, the wonder
corn-growing as they have. It is clear that from the neglect of the precautions indicated, our ountry has had no fair chance to show what are crop growers in the given attention to the selection, care and testing of their seed corn, and such are earnestly invited to contribute for publication in the columns of The Farmer's Advocate the results of their on the question of the production of this most interesting and valuable farm crop.

## OUR MARITIME LETTER

The great revolution which has been steadily progressing in matters of dress in the Orient, is given as chiefest of the many causes which have tended to the general activity which in late years has so distinguished the wool trade in Englishspeaking countries. Japan, accommodating herself rapidly to European ideas in this particular as in many others, gave it a decided impulse a few years ago when she donned pantaloons, and in her steady and extending demand for woolens bellum days. Previously wool fetched such inferior prices that few Westerners thought of engaging in the shcep business from this point of view alone. To the pastoralists of the Aus tralasias and some other of the South America Republics, the wool trade looked for its rail
materials. As an adjunct of mixed farming, the materials. As an adjunct of mixed farming, the
golden-hoofed sheep was, unfortunately, disappearing. The ranches of the Western States may hav enlarged under corporate influences, and possibly in our own Northwest. sut communities in the Eastern States and Older Canada, which had raised sheep from the pioneer days forwand, now saw them disappear as if by magic, and the memory of the gentle animal aimost entirely forgotten in a year. These Maritime Provinces were in of our husbandry. Fencing, many thought, was not to be done for the values then offered for sheep. The meat was cheap, and wool wort ittle or nothing.
At this stage the American lamb-purchaser dis price of those animals mounted from 2t $2 \frac{1}{\frac{1}{2}}$ to cents on the hoof. This change, and the mone left, caused the farmers to hark back. t became absolutely necessary back; and when for so general an abandonment, apart from the hey fell back with one accord on the dog. Neithe of these causes can be pleaded with any show of general success. The mixed farmer simply forgot his cunning, and in a period of low prices sacri ficed a friend oi the oldest possille standing, and one which had even in poor days cost him little or nothing to keep. There is now, however, return to sheep-keeping on a moderate scale all
round There is an unlimited demand for Maritime mutton or lamb, and that demand it will hard tolovardo in the present state rith a steafily-increasing population and a fai measure of good times. Meat will sell at prices
to make it worth the while to raise sheep then and the other article of wool, apparently, may soar out of sight at any time, so great is the In thic connection it may be that the immense Fmpire of China has at mention thought, responded to the leaven of Western civi self aiter the French fashion, to which we have al been long subjected. 'This means a wonderful change in the material as well as the form of Oriental costuming. The army alone will make Hemands on our looms which it will take years to than even that of late years may prod production This has got to make itself felt may be expected This has got to make itself felt on the sheep in
dustry in general very markedy, and hence w.
hear more every day of the desiratility of
most and best meat and the most and best at the same time. We have several exc breeds of sheep which it will pay mixed far to keep pure and breed as extensively as thint ircumstances will permit. Following the exa Nova Scotia, which had a big sale of impo males at Canso rast fall, and could not sup he demand, it would be well if the other Mat ime Governments made an effort to help on evival in sheep-raising within their limits, by tandard-bred males. Nothing will results.
In the January report of the Department Trade and Commerce, Commercial Agent Jacks Leeds and Hull, thus speaks of the activity British looms and the cause of it

There is very much in the present state the woollen trade of the West Riding pointing the average in almost all branches, and above mand has remained very steady and continuous A notable feature of the industry for some month past has been the extraordinary demands of China. whilst those of Japan have likewise been encour aging. The present Chinese requirements are so extensive and varied that it can only be assumed that China, following in the lead of her progressive neighbor, is about to adopt the Western style of dress. This would certainly seem to be the case in relation to the army, as some of the largest orders are for army cloth, similar to that which the Japs obtained, viz., a plain, dyed, heavy woolen. The rest of the demands mainly and blue and warp melons, vicunas in black quality.'

There should be no longer any hesitation on the part of our people to repair the loss a sudden relinquishment of sheep-rajsing has caused them, by securing the nucleus of new flocks and expanding them as rapidly as their circumstances will Maritime There is no limit to the demand for keeps up long and whether the wool mare demands of those Oriental nations upon it must keep it firm and profitable for years to come. The Legislatures are now in session all over the land, and if there is anything serious in the dog cry, by all means let proper protection be afforded this important industry by statute.
E. BURKE

## SEND US PARTICULARS

since the publication of the article, " Warning the Unwary," in "The Farmer's Advocate " or Feb 14th, we have received numbers of letters "Get-Rich-Quick" propositions which had beel made them through the mails and otherwise. In order to further aid in putting the people on heir guard and preventing the operations of the persons behind these schemes, we desire our read rs, and others as well, to send us at once the riginal letters of all such proposals that they o We need hardly, or publication, and in no case will necessariy -t-office address of the recipient we the name or

1. might have in breeding of sheep for mutton and lamb in nstralia would have reducerl the average weigh In authority not sufficiently a table quoted from ealand contemporary, however, this is a Nell 15 . It is stated that the wool from 100,930 1.5 hales per 1.000 , while in 1905 , he prates -1.527,444 sheep was $1,120,000$ bales of wool though this increase in the weight of the lleec ,s something should ske allowed for the abuindant
 ing a class of animal which will produce

## HORSES,

CLYDESDALES: PAST AND PRESENT What are the leading points of a Clydesdale horse, according to current standards, and in
what respect has there been modification during the Fitor the Scottish Farm propound ny the is: Much in and hi


Prince of Mayfield (imp.) (12289)
fesdale stallion; bay; foaled May, 1901. Sire Reyal Stamp (10442). Winner hibited by Smith \& Richardson, Columbus, ont Shoul
and perpendicular, and his hind legs moving in idea, after the animal is well up in his
line, with the points of the hocks inclining in- teens, and to a certain extent it is guessward, rather than outward. The Ivanhoe-Time work after nine years. After that age the the young horse, and the growthy, upstanding stylish youngster is credited with the prospect of thickening sufficiently when his growth has
stopped.
development of Clydesdale type during the past thirty years, let him compare the sketches pabharder to distinguish, and are not as regularly present as in younger animals. Still, the changes appear with sufficient regularity to enable a person who has given the s.
to avoid grave mistakes.

The horse has two sets of teeth, viz., the tem porary or milk teeth, and the permanent or horse teeth. The temporary teeth differ from the per manent in being much whiter in color, 'much more constricted at the neck, and smoother from side
to side, there being an absence of that depression or furrow noticed extending the whole length of or furrow noticed extending the whole the adult male animal has 40 teeth, classified as follows 12 incisors, 4 canine or bridle teeth, and 24
molars. The female, with rare exceptions, has only 36, the canine teeth usually being absent The incisors number six in each jaw; the pair in the center is called the central ; the pair, one on
each side of these, is called the lateral ; and the pair, one on each side of these, is called the corne teeth. In male animals the canine teeth are seen in the interdental space (the space between the corner incisor and the first molar in each row) a small space exists between the corner and canine
teeth. The molars are arranged in four rows, one on each side of the jaw, and are numbered lst, 2nd, 3rd, 4th, 5th and 6th from before backwards. At birth the colt sometimes has four
temporary incisors, the central pair in each jaw, but usually these do not appear for about 14 days, the laterals at about 9 weeks, and the corners at about 9 months. He always has 12 molars at birth, Nos, 1, 2 and 8 in each row, and he never gets any more temporary molars. is No. 4) should be well up and in wear. At two years the second (\%No. 5) should be present. three years Nos. 1 and 2 (temporary) should be
shed and replaced by permanent ones, which should be replaced by permanent ones, which
sho and at four years. No. 3 (temporary). should be shed and replaced by permanent one, and No. 6 should be seen well up
and in ,wear. and in wear. Hence, at four years old a colt until this age is reached the appearance of these teeth will aid in determining age when any doubt exists. After about nine months old, at which time he has ayl mouth of temporary incisors, they become larger and the wearifig surface gradually wears down and the hollows become less marked, until he eaches about 21 years; be porary teeth are shed and yeplaced by permanent ones; between, 31 and 44 years the laterals are
shed and replaced by permanent ones ; and 'beshed and replaced by permanent ones, and be-
tween 41 and 5 years, the corner teeth are shed
and replaced by permanent ones, and the canin and replaced by permanent ones, and the canine
teeth appear in, males. Hence, a horse should have a full mouth at five years.
The permanent incisors are wide from side to side and shallow from before backwards, and the external surface of each presents a groove running ace shows a thin rim of a hard white substance called enamel, outside ; internal to this is a porto which is a a second ring of enamel dentine, internal this is a, holigev which shows $a$ a substance which becomes dadidand is known as the mark. At six years the marid should be worh out of the central


Baron Kitchener (10499)
Clydesdale stallion; foaled in 1897. Sire Baron's Pride. Winner of the Cawdor
lower incisors and the bearing surface of the the laterals are showing wear, and the inner edges nearly round, those of the laterals becoming teath almost level. At seven years the marks of the corners are even with the outer.
have disappeared in the laterals ; and at eight and those of the corners gaining in thickness, years in the corners. At nine years the table or wearing surfaces of all the lower incisors should be level, and usually, if a side view be taken, with
the teeth shut, hollow will the teeth shut, a hollow will be noticed near the -a sort of hook. At ten years the marks are sup posed to have disappeared from the central upper incisors; at eleven from the laterals; and at twelve from the corners. It must be remembere place in the upper teeth are not as regular as in the lower. After eight years the general shape of the teeth gradually changes; they become longer deeper from before backwards, and narrower from
side to side ; the table surfaces first assume rather round form and afterwards become some what triangular. In some cases, after the 'teens are past, the teeth become shorter, but this is not me that, while set rules may be laid down as to the appearances of the teeth at certain ages until 35 years or older, no definite dependence can be placed upon these rules; the condition of the able extent upon the quality of the to a consider are harder than others, as anybody who is in the habit of dressing teeth can testify) and upon the nature of the food upon which the animal has senting the appearances the teeth should prese at certain ages.


Fig. 1.-Lower jaw at $2 \ddagger$ to 3 year
The central temporary incisors have been she and replaced by a permanent pair, which shoul times are at 21 .


The lateral temporary incisors have been shed and replaced by a permanent pair, which should be well up and in wear at four years, and some-
times are at 33 . The central pair show a little wear on the outer edg


Fig. 8.-Lower jew at $4 \ddagger$ to 5 yeara
The corner temperary incisors have been shed and replaced by a permanent pair, which should
be up full and in wear at five years, and sometimes are at 4t. The centrals show wear at both edges, and the outer edges of the laterals have begun to wear. In male animals the canine teeth have appeared, and at five should be fairly well
grown. It is quite rare to notice these in females, but occasionally we see them either fullsized or rudimentary. Therefore, it will be seen that at five years a horse has a full mouth permanent teeth.


Fiv. 4-Lower iew at 6 years.
The marks have disappeared from the ceatrals


Fig. 5.-Lower jaw at 7 years.
The marks have disappeared from the laterals worn to a smooth surface.ar, and both edges are


Fig. 6.-Lower jaw at 8 years.
The marks have disappeared from the corne and all the teeth are evenly in the At nine years the lower incisors are ail worn down, with almost flat surfaces, there being
little cavity left.


The mark is almost gone out of the centrals is still quite visible in the laterals, and clearly


Fig. 8.-Upper jaw at 11 years.
The marks have disappeared from the laterals


The marks have disappeared from the corners



Fig. 11.-Lower jaw at 14 years.
The table surfaces of the laterals are alme round, and those of the corners becoming so. incisors have become round, at the corner lowe central upper incisors, at 17 the lateral, and 18 the corner. In the meuntime the surfaces of the lower teeth have been gradually assuming upper jaw gradually take on the same shape. the abpor jaw gradually take on the same shape. At wear flat, and this gradually continues


Fig. 12.-Lower jaw at 26 years.
The lower incisors are all somewhat triangula and twice the depth from before backwards llat on top.


All the teeth are somewhat triangular, an twice as thick as th $\qquad$ are While these figures show what we expect to
see, as already stated, they are nor reliable after
the animal has reached 12 years. the animal has reached 12 years; and the age, after that, must be judged by the general uppearance of the mouth and head, and it requires areas real of observation and experience to aoquir
reate degree of skill.

## LIVE STOCK.

THE DUAL-PURPOSE CATECHISM
Editor " The Farmer's Advocate
1 have been reading in an Iowa paper of the origin and development of the polled Durham (or Shorthorn) cattle, and more recently of the polled Herefords. Would it not be worth while to develop this method of dehorning, instead of be interester readers might Are there any polld Shormation along this line. In reference polled Shorthorns in Canada? luminating article in your list excellent and illike to ask whether the his which have suckled three high-grade beef cows not justly be termed "ree calves in a year may and whether or not Mr. Arkell thinks that would be more profitable for the Ontario farmer to use such cows to suckle calves or to milk calves on skim milk ? Also if, and raise the raise three calves, where, and of what kinds, can alves be got to put on this cow ?
solved by raising dual-purnk the problem can be that " the man who tries to at the same time usually finds himself at a stand till." Admitting the general truth of this re mark, it may be doubted that Mr. Arkell does not distinctly recommend the development of a he raising of dual-purpose cattle, by selection iniide one well-established hreed, and not by cross
ng ? Perhaps others beside myself ng Perhaps others beside myself would like O have Mr. Arkell define his views more ex
W. C. GOOD.

AGE TO BREED HEIFERS
$\qquad$ produce their first calf. $\begin{aligned} & \text { which to breed heifers } \\ & \text { Time was when }\end{aligned}$ was generally considered that a heifer of any
class should not be bred to calve before she was three years old, and in the beef breeds it is probsince heifers of that class, as well as cows, are generally required to succle their calves for six
to eight months, which is to eight montus, which is a much heavier tax on now common practice among breeders of the dairy
breeds to have their heifers produce breeds to have their heiifers produce at two
years old, and in many instances as young t months. There is no valid objection to having if they have been liberally fed and kept growing steadily from birth, as the tendency to milk is
developed as the period of motherinood approaches developed as the period of motheriood approaches,
and should be cultive and should be cultivated by early milking, pro-
vided the physical system has been well nourished to give strength of constitution to wear the irished
upon it which heavy milking makes. Heiter draft upon it which heavy milking makes. Heifer calves intended for special dairy purposes should be
raised by hand on skim milk after the first be raised by hand on skim milk after the first three
or four weeks, allowed ample exercise, early taught to eat, and fed principally on bulky foods. as grass, clover hay, silage and roots, with a fairly liberal allowance of bran and oats, the ob-
ject being to develop the digestive organs ject being to develop the digestive organs and
provide capacity for working up a large amount provied capactity for working up a arge a aount
of faod into milk. The idea that dairy heifers should be kept thin has been too prevalent, and has tended to weaken the constitutions of many
cows that would probably have made far better records as producers had they maen fed more liberally while young. of course, it is well to
avoid feeding freely of fattening, concentrated avoid feeding freely of fattening, concentrated
foods, and this can readily be avoided by using the class of foods above indicated, and by giving
 for work, all of which are desirable characteristictc.
Size, which is the least important of this trinity Size, which is the least important of this trinity
of qualities, could doubtless be more fully attained by having the heifers produce their first calves at three years old, but there is danger, in that case, of their running too much to beef and to 18 months or under, she should not be bred calf at for several months, but allowed a rest from the demands of gestation, and a chance given to gain strength, while a long period of lactation will
tend to fixx the habit of persistent or year tend to fix the habit of persistent or year-'round
milking, which is a desirable characteristic in dairy cows, as the system of yearly record-keeping
has amply illustrated has amply illustrated

## JUNE CONDITIONS

Editor "The Farmer's Advocate":
I was very glad to read your editorial in Feb. 7 thas issue on glad to read your editorial in in ing after summer or apring conditions is, for the sentimentalism. who must make money, costly sentimentalism. I have felt this folly for some
time, but in face of Institute workers and enthusiastic farm papers, I have not had the courage to express my views before. This fad is
only admissible in the case only admissible in the case of wealthy men who
make their money in the city or who have made or inherited a fortune, and are conducting a dairy for the pleasure of spending money. if the cost of atructure on record my belief that If the cost of structure, or even interest on in-
vestment in cost of build ings, cost of hired hel cost at market prices of food consumed help, placed against them, that not one cow in one hundred in Canada would pay a clear profit, even
where surrounded by June conditions. The fact where surrounded by June conditions. The fact
of the matter is that the large maiority of the cows in Canada do not pay their way; but since no branch of farming pays a proatit if we take
labor, every item of cost, including interest on in vestment, etc., into consideration, we may as well
stan ind stick to the cow, since her loss is not as well than many other branches, but aim to get the production and expenses so adjusted that the pail
may be as nearly full as possible with the least expense, in spite of the preaching of Government expense, in spite of the preaching of Government
Instritute workers.
FARMER.
treat the dog
I notice a great deal
dogs killing a gheen deal of controversy about Vears ago I had a dog thime to time. Some
te home four hours in a day. I could not keep th home four hours in a day. I castrated kim,
and since then have had no trouble. I have
cince treated ance since then have had no trouble. I have
treated two of my neighbor's dogs in the
cane way, and they also stay at home. Had it
 ambling, as they were, they would have been in
aschiet which would cause their owners and
"hars loss Chitef which would cause their owners and
hers loss in leol convincer that if all the dogs
The country not required for breeding were
time hear almost no complaints about killing stormy days. On these days one can water in sheep, as it is always the rambling dog that
does harm. Lanark Co., Ont.

## STRAW-FEEDING STOCKERS

Farmers who are straw-feeding their young cattle, with the intention of turning them young
pasture the coming season, should that, in order to get the very best results, the cattle should be fed good hay for one month be-
fore fore being put on grass. Last year I had quite a
large herd of cattle belonging to toria County pasturing on my ranch, and I I vook
theol the trouble to enquire exactly how the cattle had
been fed and the result of my observations are the strane, fed cattle which have lost considerable weight
during the winter months but during the winter months, but have again started to make some gain in weight on the month's hay-
feeding, do decidedly better on pasture, male bigger gains in weight, and are the most profitable to the owner. Again, I had instances where cattle had been fed grain moderately all winter,
and, while they looked better than the straw-fed beasts in the spring, it was very noticeable that they did not make any better showing on pasture The cattle that had been fed straw alone until pasture time were so poor that it took them
most of the season to regain what they during the previous winter, while it should only have taken a month or six weeks to have put them in a good thrifty condition had they been
hay-fed for the last month of feeding.
Hay is
side by pails dipped from the horse trougo
which is handy to the cow stalls. The whol system cost in the neighborhood of about $\$ 100$ with quite a bit of my labor thrown in. The
single $o w l$ single - bow w lastem may be a little less work io
the farmer but, on the whole, I prefer to let the farmer, but, on the whole, I prefer to let my
stock out in the open air at least once a day, for stock out in the open air at anst issential to gooo health, and, by the way, one of the principa

things omitted by the June-conditionin | things omitted by the $\begin{array}{l}\text { dists. June-conditions" fac } \\ \text { A. W. HARWOOD }\end{array}$ |
| :--- | distsiord Co., ont

Oxfor

## THE FARM.

## PRACTICAL FARM DRAIMAGE

In the previous article on this subiect (see Farmer's Advocate " of Feb. 28th we elaborated a simple method or ascortainas the total fal drain. In this article I shall give a method o using the plow for almost the entire depth of th
uSE of plow in digativ drain
When the drain has been staked out and th fall determined, one is ready to begin diggine Experience has shown that in the earlier stage the plow can be used to great adyantage. Per
haps the most effective method is somewhat as followe
open up the drain as
wide as posiblo,
throwing one furrown
 ground, these furrow,
Win not need hhovel
ling as they swill bo
thrown well out . io ling, as thay will be
thrown well out; iv
sod, they may need
rolining thet rolling farther back
2. Using a narron
plow, plow two fur plow, plow two fur in the bottom of the ditch aiready formea
throwing each furrou throwing each furrow
toward the conter of
the ditch the ditch. The
ond one will
turn thit ond one will turn thit
Arrst back partly, bui
this serres first back partiy, but
this berves sonly to
loosen the soll mort loosen the soil mor
thoroughly, The sides of the ditch, which
were very
aiter the first opine arter the irst plow
ing. ha ve bee trimmed of perpen
dicular and straigh
by the land atlot
the second plowing The second plowing
is nowond plowila
shovel


Dalton King (imp.) (9592).
Hackney stallion; bay; foaled 1901. First prive in three- year-old class and chaw.
pion Hackney stallion, Ontario Horse Show,
Toronto
Sise pion Hackney stallion, Ontario Horse Show, Toronto, 1907.
Garton Dulise of Connaught.
the best feed for cattle that have to be driven any distance. My rule, in driving cattle, is to see how thow they will go, not how "I fast," and
find that pays well.
V. STEWART.

## A Watering system

Editor The Farmer's Advocato
I notice in your issue of Feb. 7th four ques watering stock in winter. As I have only recent dent in taking your valuable paper, I feel diffimight think of any interest to your many reader
 the end of the $40 \times 50$ barn against the side of the $44 \times 50$ one, fush on the north side, I have a barn 94 feet on the north side, and part of it
50 feet and part 40 feet on the south side making a jog of 10 feet facing the south. In this jog or corner I have a water trough, with a roof over it which also covers one horse-stable door and one hall door. My well is near the house, 150 feet
from barn. The water is forced to the barn through underground pipes by windmill into an elevated tank in the stable which will hold two days'
other supply of water for 20 cows, 6 horses and
By means of pines and water can be turned into the outside trough, the also into a trough inside for horses, hogs, and cattle on stormy and very cold days.
cows out to water my shovel out, and it condition for in phove:
ling. ling.
phe ditch at the
present
betage should be objected that this inches wide. It may be objected that this causes neediess shov
elling. to which 1 answer that seet to be used till the ditch the feet deep, and it is necessary to have the top wid
enough to accommodate th hat tom will not be any wider than nocessary The is about 15 This open should be repeated till the ditel is about 15 or 18 inches doepe. In order that side of the ditch, the lines arte opened up each
as possibe as possible, and a long doubletree used. To per
mit the plow to as a chain about 6 or 8 deep enough in the go peor
the beamg is pund the in between the beam and the doubletree. This plow will nol
be found satisfactory be found satisfactory atter a depth of 15 or 1s
inches is reached, as the drain narrower. 3. For the third operation, a plow must on
fitted up specially ; we want nited up specially; we want something to dig ne narrower trench than heretofore, Take an ordi-
nery narrow plow and remove the This, of course, removes the attachmentaboard. lower end of the right handle, but bolt a narrow
block between the block between the handles and run a brace to the the
back bolt in the beam, and as firm as ever. Put the handle is as steeidy Now, using this. Put on a new narrow poini.
center of the drain, and plow right down the center of the drain, and come back in the the the
furrow. This forms ane furrow. This forms a narrow ditch in the bort-
tom, both sides of which are trimmet perpendicular by the land-side. Withralifht and shovel this furrow may now be wemoved. narrow
operation is reper operation is repeated again and yemoived. This
drain is almost as deep as requireatin until the
the
to make further and permanent alterations in the
piow used for this third operation. The rods be-
tween the hand tween the handles should be taken out, shortened gether. The top section the handles closer tothen be so wide as before, the ditch need not shorten the braces that run from the head to the ditch need not be so and the wide section of the who have mate these permanent alterations men plow, which they now call their "d drainagns in This method of digging a ditch is not plow as original, but as one that has been tried and has been proven eminently satisfactory. Men o and who have discarded others in favor methods ne, assure me that this is the most economical they have tried. After some practice, it is found clean soil.
The next article will give a method of finishing the ditch-bottom uniformly to the proper grade.
WM. H. DAY. ntario Agricultural College

OBSERVATIONS AT IMSTITUTE WORK
Editor "The Farmer's Advocate ":
As a sketch of the doings noticed and gathered during the six weeks spent at Ontario Institute meetings, permit me at first to state that the
Counties of Dufferin, Peel, York and Waterloo Counties of Dufferin, Peel, York and Waterloo
were visited. The meetings were fairly well atwere visited. The meetings were fairly well at-
cended, and more than usual interest was manifested. The discussions were free and pointed,
while businesslike thought was evident, with few while businesslike thought was evident, with few
exceptions. The continuous progress of agriculture was seen on the surface at most points, but in a few places disappointment is the only word
which will fit in properly. That we, as a class are realizing, as never before, that thought and study of conditions are absolutely necessary to Growing crops, however important is unchallenged. irst step towards making farms profitable. The question of what kind of stock should the crops grown be fed to, in order to secure the largest
returns from the year's labors, is to more and more. Here is where good judgment and searching consideration of the available and best-paying markets count for a good deal.
cupying many minds is, What is the pronce ocof an animal for me to have, or breed, to secure the greatest profit in business? In every county the leaders in agriculture are becoming specialists,
with the special-purpose animal with the special-purpose animal used to convert purchase) products grown (and often added to by Most careful attention is being paid by them t secure the animal machinery which gives the largest returns at the lowest proportionate cost creamery-Jerseys and Jersey grades are in the lead. For milk, sent to town, city or factory the Holstein and their grades outclass all others and when it comes to the butcher's bullock, the
Shorthorns and Shorthorn grades head the lists The latter, properly selected and mated, will pro duce the high-priced steer and give a paying pro
duction of milk which tests well in buter Inction of milk which tests well in butter-fat seen, firteen of them, which for years-before abortion played havoc--returned their owner $\$ 90$ per head per annum for cream sent to Toronto. grain, several hundreds of dollars, all totalling and near two thousand dollars-all produced on 100-acre farm. The possible value of skim milk in hog-production was furnished by another Peel dairyman, when he told us that he found ground
fall wheat, fed to a bunch of 120 -pound hogs. grown to 200 pounds, made him $\$ 1.80$ per bushel, no value given for the milk, with the pigs bought and sold at $\$ 7$ per hundred, live weight. noon that the Jersey cow or grade which did not furnish him $\$ 80$ worth of crean annually, sold in Berlin town, was not kept in his herd, which num loo related his experience in feeding barley Wate oo related his experience in feeding larley meal
with swill from the home, and water, but no roots. A strict account was
found that every four pounds
lot made a pound of gain in weight. The hoges barley fed.
on by one of the directors, feeding tround whet to 90 -pound hogs, was certain to
per bushel for the wheat.
The spirit of investigation and got forn ant
cost of production is abroad. 1301 . 11 , Wh...
contrast is met with in some parts. contrast is met with in some parts.
cesses were noted in Peel, and yet there.
cesses were noted in Peel, and yet there
excellent-looking locality, the greatest
ment was met
excellent-looking localin, the growing
ment was met. To find grain-growing
selling still the order of the day was
selling still the order of the day
to stagger a stranger: and the sure consey
was reported. While previously-unequalled
was reported. While previously-unequalled mr
perity has visited our l'rovince generallv,
perity has visited our l'rovince generally, our in
iormant assured us such was not the case among
told us that twenty years past a farm long rented been readily gotten years ago $\$ 5,000$ would have sonce for $\$ 2,700$. It is a telling fact that lands of Toronto best quality, within driving distances do not bring the and York are not worth, and temptation to keep on selling whole milk, timothy hay and grains in such a good market as Toronto offers, tends to keep a team or two too often on the road, and impoverish the soil at the same ity of the soil is given more study, because necessity often, and therefore land values are not higher holding up, but the better farms are held higher as the passing years bring to them greate power
ment.
In
In Peel and York is causing dismay. So far no preventive is Dufferin is progressing in perts repily some points slowly. Three grain elevators at Shelburne, with, at times, streets blocked with loads of grain waiting to get unloaded, do no augur well for the future welfare of the district summer-fallow prepared field, as still practiced with the hope of making it pay, can be realized was a conumdrum met in more than one county.
Waterloo is prosed of thrift on ali hands ive and prosperous-signs morning market, the greatest variety of Saturday probably in all America, was seen. The hundreds selling direct to condted to me) of producer middleman and no protective consumers, with no profits. looked like an ideal condition of things Summing up all the details of our work,


Camilla
 gressive class. The good times are still with us, After killing and dressing is held by its people in higher esteem than in the past years. The serious conditions of the Canaour Province and its temperate clime contrast with splendid and solid financial foundation. With its as we should be, a happy people, full of faith in
our country, and also in our business on the ever increasing-in-fertility farms of our good old Prov

MIXED FARMING BEST FOR SMALL FARMS
Having attended two Farmers' Institute meet- Now, to arrange it so that each member will ten years, I have come to the conclusion that a weeks, we use the following the end of twenty
great many speakers make tho are arranged great many speakers make a mistake in trying to the scantling arranged in such a way scantling, and
impress on their hearers that their line of

 It tahes consinwahl, money and a iong time to wall calendars) pasted above each hook. These



 | and |
| :--- |


 (n) WT, and 10 ticket goes with No. $\geq$ hook, No
 hali :it morcass. 1 gets ticket No. 10 he has had
for settling up. It everything is kept in correct
shape, the total of columns, added from left to right, and up and down, will exactly correspond er, and it is just a little annoying through farmbusy season of harvest, etc., if you have to leave grain in the field and go at the butchering. However, someone must do it if we want the ad-
vantages of a beef ring, so we have stur vantages of a beef ring, so we have stuck to it
so far, but we would not mind at all if so far, would take the job for a change.
MRS. ENOS S. HUNSBERGER

Waterloo Co., Ont. ENOS S. HUNSBERGER

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## CLOVER AND CORN A ROYAL PAIR

I have never grown any clover seed, but I am an enthusiast on clover and corn. I reckon them a royal pair, going well together both in the
field and in the feed room. There is no better preparation for a catch of clover than sowing
after a crop of corn, and there is nothing better after a crop of corn, and there is nothing better for a crorn crop than a clover stubble. We sow about 20
acres of our 70 acres of arable land with clover, which rarely fails to give us two splendid crops the following year. We cut the first crop, which is never less than two tons per acre; top, sweich
crop we generally need for fall teed.
thi
 quantity is grown, though not as much as formerly. I have figured it out that my two crops of
clover are better value than a crop of seed. The two crops, if both were cut, would average fully three (fons, which, at the low valuation of $\$ 6$ per
ton (for stock-feeding), would be worth $\$ 18$ can put this in the barn for $\$ 4$, which leaves a profit of $\$ 14$ per acre. But feeding off my sec-
ond crop, I value it at $\$ 2$ per acre ond crop, I value it at $\$ 2$ per acre, leaving the
profit $\$ 12$. This I obtain with the minimum labor. I claim that this leaves the land in better condition than after taking a crop of seed, for the reason that in maturing seed the sub-
stance stored up in the root is gradually exhauststance stored up in the root is gradually exhaust-
ed, thus leaving less to go back into the land as the plant decays. The average price I have paid for seed for the last ten years is $\$ 4.75$ (bought from neighbors at wholesale prices). I claim that I am just as well off to let others grow my seed
for me. Then, again, the threshing has to be done in cold weather, often theshing has to be and roads drifted; it is anything but a picnic working in a draughty barn with the machine
If there is any money in it, the farmers do no If there is any money in it, the farmers do not
get it. The price should never be less than $\$ 8$ per bushel, or the yield below three bushels, to
make it profitable.
FRED FOYSTON. Simcoe Co. Ont.

## CLOVER-SEED GROWING IN MANITOBA.

 Editor The Farmer's AdvocateIn regard to clover-growing in Manitoba,
might say that I have been here might say that I have been here only for five
crops of grain, and did not try clover-growing
till ox County, Ont., for when I sent east to Len seed that had been grown in that county. I had been told by different farmers in this part that it was no use to sow the red clover seed, as it
would kill out during the winter season, but, de termined to give it a fair trial, I sowed the two bushels that spring. I took the same plan for one bushel as I did in Ontario; that is, I mixed it part clover, and sowed it at the rate of 10 pounds to the acre, with a nurse crop of wheat. The other bushel of clover seed I spread over about cient to insures of land, mixed with timothy sufflwith a nurse crop of wheat. My experience in growing red clover in Mani-
toba has not been very extensive, but it has met tobb has not been very extensive, but it has met
with great success so far. The bushel of red clover that I I sowed on ten acress in the spring of
1904 came through the winter in 1904 came through the winter in fine order, and cut the first crop of hay on July 13th, 1905 ,
which yielded two tons of clover and timothy hay to the acre. The second crop came on very quick-
ly, and in about six weeks the field was all in bloom again. This I left until such time as it got ripe-or, at least, the greater portion of it was ripe-which was about the first week in it up with the horse rake. By mower and raked Was a considerable waste, as the very ripest
the clover balls were broken off with the tram Of the horses and the rolling of the wheels on the
busher. When it was threshed bushels to the acre. I did not sow any red
clover seed in the spring of 1905, as I was waiting to see the result of the seeding I had done the spring before. Last spring I sowed three with which I covered about thirty acres of land grass-seed with timothy seed and sowed it with a crop of wheat, and it looked drill, with a nurse covered up with snow last fall as any crop I have had, either in Manitoba or Ontario
would have the first crop cut as soon after

June 25th as possible, and not later than the
10th of July, as it would give more time for a full formation of the seed before any frost would come that would be heavy enough to injure the seed formation.
my seed clover, which I think is the best method for saving and gathering all the theed. best method toba I used the mower, but there is a considerable waste, as the very best heads of clover are
very easily broken off. very easily broken off. It would be advisable to
attach a table to the cutter-bar of the have it gathered until there was the mower and on it, and then have it lifted to one side in the same way as when using a pea-harvester. After stacked or put under shelter, and left until the stacked or put under shelter, and left until the
weather is very cold, when it will thresh out very much more profitably to both the farmer and thresher. I always have had the clover threshed
between the 15th of Decemer between the 15th of December and the last of
January following. In Ontario In was to get a regular clover mill to do the threshing. but in Manitoba there are no clover mills that I know of. In threshing my crop in Manitoba, I used the grain separator. I took out the one
fork from behind the cylinder and closed it up


Trout Creek Choice $=57962=$.
Two-year-old Shorthorn bull, included in dispersion sale of the herd o
Crerar, Shakespeare, Ont., March 13th. (See advertisement.
with sheet-iron (as close as the teeth will allow) from the elevator side to within about 8 or 10 the side that the elevator spout pours in on. In put in three concaves full of teeth, and set them means you have made a very good huller By this your cylinder ; then, by feeding the clover in on the elevator side, it has to work its way across the cylinder by going round it several times to
the open side, where it escapes. I also got sieve, with about six meshes to the inch, which gave me good satisfaction in cleaning the seed. Then I put it through a fanning mill twice, and seed sowing machine without through a grassThe best and only yield I have ever had in Manitoba was $1 \frac{1}{3}$ bushels to the acre, with the process of handling as ubove stated. With a lieve it would have yielded me one bushel extra to the acre, if not more. The returns from the crop of seed that I had were eighteen dollars an
acre.
JOSEPH A. RUSSELL. Lisgar, Man.

and this was not plump seed. the seed off 12 acres. is low, owing to the fact that we uverage here sure stand of clover; sometimes it is winter a seed, 100 pounds to the wa years of growine 100 pounds to the acre when hay-load, is county, providing you farm worst enemp in this county, providing you farm well. It is a weeril purpose, and she riseser by a fy made for the Pontiac Co., Que. WM, A. HODGINS.
FURTHER PARTICULARS FROM AMATEUR FARMER.
Editor "The Farmer's Advocate":
In compliance with your Basinge
quest for more itemized accounts of my farming opera-
tions, find statement as follows:
EXPENSES.
Married man, with free house, wood mil
butter, etc. Single man ................. ....... ...... ....... ............ 880000 Chore boy, seven monthis ...... ...... ...... ......... 34500 and silo haying and harvesting, threshing and silo flling .....
Clover and other seeds
Feed all kinds Feed, all kinds.
Taxes
Threshing
Editor MONEY IN CLOVER SEED
I have been growing clover seed now for a sike, but twenty years, and have also grown alI have tried a little alfalfa, but it does not appear to suit heavy land.
I usually sow in the wheat, about 8 pounds per acre. In the following fall, if it has made a good growth, I pasture but not too late ; if the growth is weak, I aim to keep stock off. In the spring I prefer to pas later or earlier, according to the season. 15 th seed begins to develop in the fall, I examine the I find the majority fairly well to time. When I find the majority fairly well matured, I begin
cutting. When the crop has been very heavy heve used the pea-harvester, with buncher, with good effect; with a medium crop, I cut with mower and rake in small windrows. When in
proper condition, I haul (but not when it is very
dry), and thresh with clover threeher in
usual way. Olover-meed buyers generally

 hasve kept to record of yield or prices, but I think
around three bushols per acre, and the price
 none. I think there is money in growing dorow

 op following it
Simcoe Co.
Ont

## THE FARMER'S BEST PLANT FRIEND.

 Editor "The Fermers AdvocatoThave chosen oariy red clover the y yonturning brown in blossoms, and lost the lead head on field, and $I$ hauled in the woody tatalka It mo dian't care to eat it, so I I changed the time full bloom to two weeks eariler, sutting mhen in

como toy yout hauling to barn. The field for seed
crop should be cut. Iune 20th, and cured as above for stock ooving the aftermath with mower seed, eut nd haul to rake, rom windrows. If
weather is fine. you
 the first frost ${ }^{\text {y }}$ say safe for traffic, and,
not having a clover-
huller in the county, use our grain thresher, running the crop clean the seed with a fanning mill, with
special screens.
The best yield par acre grown hiere was
in $1904-15$. in $1904,-15$ tacres
yielded 3,875 pounds. on heavy doam pounds, manured: poorest yield in 19 Repairing Repairing and painting wagons
Binder twine, board bill, and 6085
$-\quad 8160$ รี่ Grain, Goons sold $\quad \frac{29488}{81,84504}$

\$2,702 20 wheat, peas and oats. I I woighed 100 buehole tromela
thresher, and thresher, and it welghed 118 welghed 100 buehels, which from the about 110 tons, and the by welght. The hay crop were about 110 tons, and the ensilage corn about crop was the

## A SPLIT-LOG DRAG COMPETITION FOR ONTARIO.

## "The Farmer's Advocate" Offers $\$ 100$ in Prizes to Encourage Experiments With the Split-log Drag on the Earth Roads of Ontario.

In the Province of Ontario are thousands up-
on thousands of miles of earth roads, in texture on thinsands of miles of earth roads, in texture
varying from waxy clay to loam and sand. Many of these cannot be gravelled or macadamized without great expense. For a long time to come during many weeks in the spring and fall, and sometimes during a considerable part of summer and winter, is wretched. Various means for improving them have been attempted. Under the
statute-labor system, the plow and dump scraper were tried, with large outlay of time, but very indifferent results. Latterly, road graders have been widely purchased, and have done much appointment arising in some cases with this implement has been due to misuse, particularly on old gravel and stone roads, where much harm has been done. However, dismissing this temptsimply point out that an annual grading will rarely be sufficient to produce good earth road Once the roads are graded, they must be kept smooth so as to shed rain and snow water freely
to the ditches. This can only be accomplished by the use of some cheap smoothing implement that can be drawn over the road early in spring and after every summer and fall rain during which the road becomes worked up. For this purpose, of a piece of heavy timber eight or ten feet long, having its lower edge bevelled and shod with iron, and drawn over the roads angling a little towards our centay roads where used intelligently of good on enough. By hauling this up and down,
one or two rounds, after the roads have become crumbling dry, lumps and ridges are broken down, ruts are filled, and travel
soon makes a comparatively smooth surface. The next rain is shed more freely to the ditches, the subsoil is preserved to quite an extent from soaka smooth road throughout the season maintains but helps to preserve the crown and protect the roadbed from disintegration. If proper use were made of the leveller, the roads would be maintained in far better shape than they are. The cheap that people underrate its usefulness. Had some enterprising firm been exploiting these levelselling them for $\$ 50$ advertising literature and be much more extensively used. It seems much easier to expect benefit from a complicated apparatus for which you pay a hundred or a housand donars than a simple homemade leveller. But facts speak for themselves, and are sure to on many a ratepayer's mind that overmuch has been expected from our expensive machinery, and of maintaining earth roads leveller is the means

THE OLD IDEA IMPROVED UPON
Strong as is our faith in the leveller, based mpressed with the new idea exploited have been United States by a man named D. Ward Kin th Missouri.
ame purp as the leveller, and with the Instead of using a single iron-shod timber
down the lumps when they are crumbling
made a drag, by setting on edge the halves dry, h split log, one behind the other, and joined by down over the road while to haul this up and object being to puddle the surface, as one might puddle clay for the bottom of a well, silo ellar foor. Everyone living in a clay district lay bottom by mucking and pudtlin can make a wet. This is the principle upon which Mr wing reasoned, and the results of using the drag to puddle clay roads in this way are attested by the reliable agricultural journals of the United States where the plan has been widely tried during the past two years; also by dozens of enthusiastic tario last fall hese papers. From Fastern On Farmer's Advocate" very satisfactor to "The So far we have heard of no experiment being made to compare the split-log drag with the leveller but from all accounts, our expectation is that the
use of the drag, as Mr. King advisoc use of the drag, as Mr. King advises, will give been accustomed to use. At any rate, the drag the roads are still muddy and before one can work on his fields. Hence it is less iikely to be To oncourage a general and widenpread trial of
the split-log drag, the publishers of "The Parm-
er's Advocate " decided to offer one hundred dol-
lars in prizes, fifty dollars in Eastern Ontario and lars in prizes, fifty dollars in Eastern Ontario and sults from one season's use of a split-log drag on a mile of earth road most convenient, in each case, to the competitors' farms. To this end we
solicited the co-operation of the Ontario Good Roads Commissioner, Mr. A. W. Campbell, who has kindly agreed to do the judging. Let it be understood that we are not offering these prizes as payment for the work, and let no one hold
back for fear of not receiving a prize. In the United States the rallying cry has been, " Drag from your gate to your neighbor's nearest the town." This has been done by many without a cent of pay or inducement, simply as a public-
spirited contribution to the cause of good roads. Most of these consider, however, that the improvement in their own piece of road is sufficient recompense to themselves for the half hour's work

actuate Canadian farmers, and our appeal is not to the desire for a prize, but to the direct sel Oncerest and the public spirit of our subscribers. the hundreds of others who enter will feel amply repaid by the improvement of their roads to mar ket and by the satisfaction of having contribute something to the solution of the rural-road prob competition, and the conditions and rules are simple as possible
rules and particulars.
one set for Eastern and cash prizes are offered an imaginary line rund St., Toronto, being the dividing line. The first prize in each case will be $\$ 25$, second prize $\$ 1$.
and the third prize $\$ 1000$ 2. Any subscriber
cate "' may enter who will notify us Farmers Advo March 27th, 1907, of his willingness to construct a drag, as explained below, and use it at least at his own discretion, on a mile of uber 15th earth road of his own selection, preferably the Applicants must give full name, post-office ad dress and railway station or stations.
3. On behalf of the Provincial Government Mr. A. W. Campbell, Good Roads Commissioner has agre
judging.
early as
arly as possible in the spring, and again after awards will be made according to the The The evident from the use of the drag. To the result, good showing, it may be well to choose a lral rather than a good piece of road, though no
limitations are imposed in this respect. Fach
competitor will be required in writing to the judge a statemeep and present amount of time spent in dragging his beat the will not he whed in was done. This statement ensics furposes of information, and in some The results of the competition will he written The illustrated with halftone engravings in Sond in your name at once. Let us have dozens from every county in the Province. We
are offering our time and money in the oause of
aran onds. Will you help?

Remember, the time for entering the competiper rule 2, to "The Farmer's Advocate". " as don, Ont."
HOW TO MAKE AND USE THE DRAC The two halves of a split log, ten to twelve inches thick, are set on edge thirty inches apart,
both flat sides to the front. The cross-pieces are wedged in two-inch auger holes bored through ( planatory. If working a clay or gumbo road, it is advised to put iron (old wagon tire, or something of that sort) on lower edge of drag at end months. The inventor has prepared the following road-
dragging " catechism," telling how to make and work the drag: fore dragring not be better to plow the road beNo. Plowing gives a soft foundation. Plow-
ing the middle of the road is a relic of the old ing the middle of dump-scraper days
What do you do when there are deep ruts in Drag them. If you drag when the surface is quite loose and soft, you will be surprised how soon the ruts will disappear road? do you get the dirt to the middle of the By hauling the drag slantwise, with the end that is toward the center of the road a little to the rear of the other end.
But suppose the roud
First drage the road is too narrow four rains or wet spells, tracks. After three of just outside the dragged part. Spread this ove the road with a drag. Only plow one furrow
You may plow another furrow after the next rain At each plowing you widen the roadbed next rain. How many horses do you use Two, generally; three if it is just as handy
four when breakin colte four when breaking colts-a good solid team in the center, and a colt on each side; two men on colts.

How do you drain the road?
If the earth is pushed in the middle of the road continually, the road will drain itself
Why not make the drag out of plank?
You can, and do good work, but the split log is the best. The plank drag is not so stiff. Why not make the drag of heavy, sawed timBerause drags so made have a tendency to slip over the bumps.
Don't you grade up the road first?
No. The grading is done with the drag, grad ualime, and is built dong, the road is solid all the What does it cost to drag a mile of road a year?
The cost is variously estimated at from one to dollars. Hoow do you keep the drag from dodging By not loading it too heavily. If a drag because it is overloaded.
Will the draghoaded. Yes and no. A dragged road will hauling ? heavy hauling than an undragged road, but mor so much as a macadamized or well-kept gravel
road. Don't drive too fast. Don't walk; get on material; almost any log be particular about
to drag with Don't try to drag with only one piece ; will do. Don't try

SUMMER - FALLOWING

In reading you valuable paper, I have found uch as farming, stock-raising, stock-feeding, etc, heglectere is one thing that has been extremely that is one of the things to be considered in farming. We have so many noxious weeds to contend with. I find it is hard to leave a mead-
OV very long without summer-fallowing, as the
wed ceds will grow. instead of first-class hay. As we go through this Ontario of ours, we can see hay a boy, we summer-fallowed, and had good arm I went out of I commer-fallowing manaing the surprise, I found I was going back on the hay crop, also in the farm in general. I have adopted the plan again, and I find it has helped me in oeping more stock. I can sell hay now ; it is

解 there are any of the readora of "'The farm. If able expectation of a fair roturn in the harvelt there are any of the readers of "The Farmer's Advocated to hear from them. morton gleaser
Leeds Co., Ont.

## SOME INSTITUTE QUESTIONS.

DAIRY, HOGS, WEEDS, ETC. Editor "The Farmer's Advocate
Since the Government has offered assistance,
great interest is taken throughout the dairy sections in the cow-testing associations. When 20 farmers will agree to weigh their milk and save
samples three times per month, they will send competent man to do the work. Many associations have been formed, and the weeding out
cows that do not reach a certain standard cows that do not reach a certain standard will
follow. Dairymen are realizing the importance of only breeding from sires that have a good an-
cestry record as milk producers behind them cestry record as milk producers behind them.
In sections where hog-raising is carried on, In sections where hog-raising is carried on,
have heard less complaints this year than in
former years of pigs crippling during winter former years of pigs crippling during ing a supply of sugar beets or mangens for winter
feeding. I have heard several successful feeders feeding. I have heard several successful feeders
say that they believed pork could be produced for onethird less cost where beets were fed with
grain. Many successful feeders testified to the importance of scalding or cooking the feed for the
young pigs from the time they young pigs from the time they lirst began to eat by avoiding the danger of injuring their digestion while young. In talking to several breeders, I find that the demand for Berkshire boars as breeders for crossing is increasing. Most larmers claim more cheaply, and the packer makes no dillerence in price. Will the future crosses give us as good a type of bacon hog as we have to-day?
In some sections a three and four year rotation is practiced: Clover sod plowed in fall, corn clover again, only plowing once during this time. In most sections the practice of hauling the manure out in the winter and spreadıng it on the
fields is adopted, and seems to be lavored by farmers, if the land is not covered by a sheet of ice or very deep snow. Some approve of piling three or four loads together, just enough to keep
from freezing, and spreading on land aiter most of from freezing, and spreading on land aiter most of The weed problem is being freely most Institute meetings, especially the perennial sow thistle. Several, prominent farmers gave their experience in fighting it, and claim that the thoroughly cultivated during the season, keeping it from showing on the surface soil. Many have put in a plea for the sheep to fight it, saying that sheep ane very fond of it as a food, and will eat it off very
close to the roots, thereby weakening it very close to the roots, thereby weakening it very ma
terially. I find in all hotels that the walls are covered with sale bills of farm stock and imple ments. The scarcity of labor seems to be the chief cause. I do not think that so many farmers
are going West as in former years.
J.W. CLARK.

OATS MUSTED ON CEMENT GRANARY FLOOR. Editor "The Farmer's Advocate ":
In compliance with your wish to hear from some oomp who has had experience with cement granary floors, I may say I built a barn about five years ugo, and had a horse stable in one end a cement Hoor and cement wall for about two
feet. The floor of the granary was raised about one foot above the level of any of the rest of the floors, and inch lumber laid on the cement. I
found that for about six inches from the bottom of the tioor, and also around the sides of the bin,
the oats would must so bady one would think the oats would must so badly one would think
they had been standing in water. they had been standing in water.
West Middlesex, Ont.

IS YOUR SEED READY?
No farmer can regulate the amount of sunshine
or the rainfall upon his crops. He may how ever, control, to a very great extent, the seed he sows. At this season of the year he should see it that this very necessary part of his work
carefully done, for when seed time is on, time 0 ing recent years weeds have been and dear. Duralarming rate, and the farmeer must keep them
down or be a heavier loser than he can afford to obitain, as it has been during labor is so hard to the farmer is has been during the past few years,
under careful cultivation that a smaller acreage
than better returns under careful cultivation yields better returns
than a larger acreage under comparatively poor
cultivation. This being the case, too cultivation. This being the case, too great care
cannot well be exercised in the selecting of the
best best seeds, and having these free from the robber
weeds. This is the season to attend to such mat-ters, and nothing will take the place of the farmer's
personal oversight in such essential details. The
time, and in the market, will amply repay any
extra labor expended now. All chemicals for de stroying fungi and kindred pests should be procured, labelled, and put away for use when needed.
The fertility of seeds should be tested now. Many a man has been sadly deceived in this. Many with resulting loss of time and patience. Would it not be well, then, for the farmer to make his purchase of seeds, send away samples for analysis,
both for purity and fertility. Doing so now may save a fine crop from the early frosts, to say
nothing of having the roots in for the vigorous early growth of the summer.
The day is past when the famer of our potatoes. "Oh, anything will do for seed." It won't hurt his bin to be handled a little just now, and to
have his seed set apart ready for have his seed set apart ready for sprouting will is the man who comes to his work with the bestmatured plans who may look for the finest re-
turns from his efforts.
$\mathrm{J} . \mathrm{K}$.

## THE DAIRY.

## FUN FOR THE BOYS.

Editor "' The Farmer's Advocate"'
Have been keeping individual milk records for about three years. The amount of time per cow have the record sheets, about five for a month, on a shelf close to the window, with the lantern on one side and spring scales on the other. The time required to hang the pail on the hook and
write the amount on the sheet is far too cant to be entered as an argument either for or against the keeping of records. I started for the purpose of obtaining more information in reference to each cow, which can only be secured by
test and weight. The records show the number of pounds per month; the test indicates the amount of butter-fat in each hundred pounds. About 85 pounds of butter-fat will make 100
pounds of butter. Hence, each cow's actual pro-


Almeda of Danville 15282.
Ayrshire cow, owned by Gus A. Langelier, Cap Rouge,
Que. Official record, 11,357 lbs. milk and 409.95 1bs. butter-fat in $365^{\circ}$ days. Adding one sixth, according to the usual practice in estimating
butter from fat, would give 478.27 lbs. butter.
duction can be made out at the end of every month. Records show when a cow is falling off
in her flow, and enable one to ferret out the cause, and, if possible, remedy it before loss results. Weighing and testing point out the paying
cow and the unprofitable one. Records will cow and the unprofitable one. Records will
cause one to become more interested in each cow. cause one to become more interested in each cow.
The milker will endeavor to keep up the flow,
and the feeder and the feeder will be stimulated to feed a better-
balanced ration. This will lead to a more thorough investigation of such matters as balanced rations, pure water, regular milking, thorough
grooming, proper ventilation-consequently better grooming, proper ventilation-consequently better
cows. better conditions, better results. Milk records are a benefit to a man who is al-
ready taking as good care of his herd as he ready taking as good care of his herd as he
knows how. They will show him that the he has booked for the butcher may be actually giving more butter-fat per day than his favori
that is giving a much larger quantity of milk.
But that is But that is not all. Has he a boy whom be
desires would take more interest in farming, I desires would take more interest in farming, I
know no better way than to have each cow's milk tested, and induce the boy to look aiter the weighing of milk from each cow night and morning,
keep the records, transfer the total of each cow's account in book provided. He will find that there is not only profit, but fun in it. After all, fun, pleasure, enjoyment of the right kind, is what
we should seek in life. P. J. CHUTE.

## eELIEVES III MDIVIDOAL RECORDS.

 Editor "T The Farmer's Advocate"" my own ascount less than a yeur, my opinions may not carry much weight, though, so far as I mysalf am concerned, they are decided. Naturally, also, $m y$ records are incomplete, as my herd numbered only six, and the record does not yet cover a year. However, as a result of keeping a record, I have since disposed of three unprofitable cows. I heve not yet met a farmer who keeps a milk recond but was persuaded mainly by letters in The Farmer's required is hardit was worth a tria. The time about one minute, or less, per cow to weing only mark down. I have a spring balance and record sheet close together, with pencil attached to string close by, so that it is always handy. Adding up the daily records takes half an hour per I have learned from the record not to judge byappearances. Une of my best cows is a huiler appearances. Une of my best cows is ad heiler which 18 always lat, yet a persistent muker, and
tests high; sne shows a taur prout, even as heller. Une that 1 sold, six years old, evave a big How of milk for the lirst month, then dropped rapidly, till, auter six munths, she was practucally
dry ; she dia not pay har dry; she did not pay her woard. let, nad 1 not have sold the guod one and kept the poor one. To a man who 18 a good and carenul leeder,
weighing the mulk will auso be prullabie, for he can then see exactiy what returns any molivicual occasionaming tor her leed. I weigh the leed idea or any, und can thus get an approximate increase the leed if 1 sost to keep. Aiso, il can proutainle. for instance such increase will the ing her pap daly when, as 1 thourht she pounds pounds extr. She responded by giving 4 or 5 a protit. milk, which paid lor the chop, with
to take tily, keeping a milk record causes a man more, interests the hired man cows, and, what is best to squeeze an extra hall pound of milk his the cows much the miks, and if he can weat the "woss, Waterioo co., Unt.

## FIFTEEN SECONDS PER COW.

Editor "' The Falmer's Advocate
Last year 1 began keeping records, but did not start untlif alter 1 had been miking lor some However I mot give you the Agures asked for. only way to 1 oow as there is delinitely the value of each can also tell at once if answork about it You behind, and can then be profitable to feed a little more in order to tid to bring them up again. I keep track of my cows by numbers, and take the weighte each morn-
ing and night in a memo book, then on saturday night I enter them for the week on a sheet for that purpose which is furnished by the sheet for Government free. I also use a set of scales I
got from them, at a cost of $\$ 1.50$. got from them, at a cost of \$1.50. It only talses milk and enter it in the outide to weigh each cow's minutes for twelve cows. This year means three keep close tab on all my cows, and at the end of the season will dispose of the poor ones. go back to the old way of guessing what not cow gave under any way of guessing what each Hastings Co., Ont. $\quad$ J. P. BYERS.

JUST ONE THING MORE NEEDED.
While we havernot a year's recond complete yet, still we are convinced of seard complete
First, that, with scales and things: First, that, with scales and sheet convenient, the time taken to weigh and record the weight is trilling, and is overbalanced by the satisfaction of second, we are going to find out which is doing; best cows and which are the out which are our Besides, keeping records causes all hands to take far more interest in milking and caring for the we bought a hand Babcock tester, for some time take samples of a day's milking each month we then an hour's work in the evening gives us and cow's test for that month. Now, there seems to
be one thing more needed and convenient way of keeping an account of what it costs to feed each cow through account of ar, while one cow may give the most milk; and the cow that pnoduces these at the still it is that is, after all, the most profitable dairy cowe Queen's Co., P. E. I.

## CARLETON COUMTY COW RECORDS

I have just kept the record, of five of my cows for one year,
raising calves.
aising calves.
takes to kould say we have never missed the time it room, or rather record, as we have a nice milk stable, where we heve ar mour milking und we kept a monthly sheet, bupplance scale hung, perimental Farm staff wall, with a lead pencil attached, weighed and marked every milking
reason I started keeping show that Shorthorn grades could be classed as dual-purpose cows, as mine were all of that class, I have one cow whose dam was a three-quartersbred Holstein cow, and sire pure-bred Shorthorn. Another, a three-year-old heifer, was a daughter of said Holstein-Shorthorn cow, and sired by Shorthorn bull. The other three were straight therthorn grade cows. And I have proved tha the Holstein and Shorthorn cross is one of the purpose cos . purpose cow; that is, if you take the Holstein be asked why? Well, the deep-milking. I may cow will usually transmit her milking g Holstein her progeny, and the Shorthorn bull amount of his beefing qualities, taking away the greater amount of the rough, bony frame of the Holstein cow, giving a cow that will give a large, even flow of milk, and then, when put dry and properly fed, will flesh up easily and put on a good share or hesh, when she is worth something
to the butcher.
This has been my experience, anyway. This Shorthorn-Holstein cow has given me one-half of
her progeny black, with a little white, and the other half red, with a little white.
Ihave learned, by the keeping of records of the past season, which of my cows are the best
to raise heifer calves from for dairy purposes, so far as the amount of milk given by each cow goes. I did not have milk tested for butter-fat, but purpose doing so soon. I may say I do not can do, as we were very short of grass last summer. I give below name, age and milking term of each cow, and amount of milk given.
No. 1.-Black: Holstein-Shorthorn cross, six
years old ; Feb. 11th, 1906, to Dec. 11th, 1906,
No. 2.-Young Cherrie: Straight Shorthorn
grade, six years; Feb. 11 th, 1906 , to Dec. 1st, 1906, 7,353 pounds.
six years; Dec. 16th, 1905 , to Dec. 1st grade, No. 4.-Beauty: Three years, daughter of cow
No. 1 and Shorthorn bull ; Dec. 11th, 1905 , to Dec. 30th, 1906, 6,810 pounds.
No. 5.-Old Cherrie : Shorthorn grade (aged); pounds.
I believe milk records are a benefit to any person, no matter how good care may be given First, it has a tendency to giving a little bet ter attention to the general care and comfort of the cows.
Second, it enables a person to cull his herd in such a manner a
Third, keeping records keeps the young people
interested in caring for the herd, and I believe interested in caring for the herd, and I believe
helps them to become better milkers. those who you are able
those who are buying for dairy purposes for
better prices, both as breeders and milkers.
During the past season our cheese factory paid
for milk about an average of $\$ 1.00$ per hundred for milk about an average of $\$ 1.00$ per hundred
pounds for the season, so you will see at a glance
what each cow has made for me during the season. My cows have always been well fed, coming to the stable twice a day, and getting a little ieed
of some kind during summer, as well as winter. of some kind during summer, as well as winter.
In summer, during May and June, and part
of July, they got a little bran and peas and oats mixture, ground. of July, August, September,
vember, corn and mangels wer
supplement the grass.
I try to turn my cows out in
good condition as they go into the
of any kind. In winter we feed hay,
mangels, straw, and chop composed o
barley, wheat, and sometimes add a
We turn cows out of the stable ever
We turn cows out of the stable every
ofton twice a day, to get

## records revealed the recreants

## do The Farmer's Advocate

generally not keep milk records all the time, but gheneragh for a week or two at different times on this plan season. I commenced four years ago "A The Farmer's Advocate "I started was reading were keeping cows which did not pay for their keep. I found out by weighing that I had some of that kind, and I got rid of them at the first chance. As for the time, I am sure it did not fare one minute per day for each cow. It is by season my neighbor, who never weighs his in dividual cows' milk, had six more cows than milk a day than 1 , so he must 25 pounds mor that do not pay their keep. By weighing, person can tell whether keep. By weighing, a
crushed or bran to feed grain crushed or bran. I also know it pays well to
have a good hand to milk. G. A. RYAN.
Prescott Co.

## A SMALL SASKATCHEWAN HERD.

Editor The Farmer's Advocate
We only have three milking cows at present cow per day can scarcely average more for each minute. Though we have not had sufficient time to make comparisons of the annual yields, we can whether each animal is sufficiently to ascertain be retained. So far we have not fed grain, to as soon as we are in a position we shall do so We think the milk records are, if anything, more coneficial to the man who is specially feeding his the extra feeding.
Lloydminster
BADEN BROS. Lloydminster, Sask.

## GARDEN 部 ORCHARD.

 LOW HEADS NECESSARY IN THE NORTH From my Farmer's AdvocateNorthern my own experience and observation in head trees low. In fact, this, as a general rule among those who have planted to any extent, adsay that had the Eastern nurserymen venture to low-headed trees years ago, they might sent o doing a large and profitable business, besides sa ing us many thousand dollars. Twenty-five years ago, when I set out my first orchard, about 50 height, the other half being very the regulation from a foot to three feet. Of the former I have just one tree left, and the trunk of that is alive only on the north side; of the others, which were these were varieties unsuited to the climate Sunscald, more than all other difficulties. bined, is our great drawback in fruit-growinin New Ontario. This occurs just when the snow the snow during the day starts the sap then dur ing the night a sharp frost occurs, freezing the sap, causing the bark to turn brown and split. ventive measures, by using whiche led us to pre vercome the evil. My reasons for heading trees low are these By doing so, sunscald is very largely prevented wind, ice and snow have less effect on the top and weeds do not grow so readily; and, as gras my experience goes, larger and ; more vigorous
trees result under the same and trees result under the same conditions. Besides it comes from the nursery.
The objection The objection that clean cultivation is more difficult among low-headed trees counts is mut very
little with me. Until the tree comes into bear-
ing any of the ing, any of the common the tree comes into bearquite close enough ; after that the ground is shaded, so that little difficulty will be experienced
in keeping the ground clean, if that is considered aesirable, in a section where many varieties are tree to plant would be to start the top My ideal 18 inches
from the ground. from the ground; allow three branches, if possible to form the top; cut them back to within a foot
of the trunk; after that, treat every one of these
three branchos three branches as an individual tree.
Of course, there is an exception these rule. For instance, I would never think of head-
ing a Longield or Greening 18 inches from the ground; neither would I head a Aches from the
the same height as an an Abundance. The habit
growth is

## The only obiection I can see to low-headed


 ed by the weight of snow melting in the dam-

HORTICULTURAL PROGRESS
Prepared for "" The Farmer's Advocate "' by Prof, W.
T. Macoun, Horticulturist, Central Experimental Treating San Jose Scale: Maryland Agricul Bulletin Experiment Station, College Park, Md. Gahan.-This bulletin contains the results A. B. periments conducled at the Maryland Agricultura Experiment Station in 1906 in spraying to termine the cheapest and best formula to use i spraying to control the San Jose scale. Useful hints are also given fruit-growers in the prepara tion of the insecticides recommended and in the time and method of spraying the trees. Eleven and 1,300 and 1,380 trees treated, of which 840 were apple rees, and 540 peach trees. In addition to the cides, Sealeci mires lested, the patent insectiScale Emulsion, Kil-o-Scale, and Target Brand cale Emulsion, were also used.
The lime-sulphur washes, made with different cessful, but the sulphur mixtures uniformly suc were more successful than those prepa fir generated by the material used, although whea caustic soda was used with lime to generate her better results were obtained than with lime alone and the statement is made that " the self-boiled mixtures, in which caustic soda and a good quan ity of stone lime are used, can be safely sub stituted for the heat-prepared mixtures, where ap paratus for cooking by external heat is not available." The lime-sulphur mixture cooked for half an hour gave almost as good results as that cooked for on
recommended.
Kil-o-Scale, Scalecide and Target Brand Scale applied in the give satisfactory results when manufacturers, but where twice the quantity was used the results were good, and it is recommended
by the writers of the bulletin that if these secticides are used, the bulletin that if these in mended by the manufacturers.
The most satisfactory formula, and the one recommended is: Stone lime, 20 pounds; flowers
or flour of sulphur, 15 pounds; water to or flour of sulphur, 15 po
50 gallons (wine measure)
The method of making is us follows
twenty gallons of making is as follows: "Put scalder and bring to a boil, then add the stog-
lime and sulphur lime and sulphur. The sulphur should be made it in the boiler, in order to water before placing After the lime and sulphur have been boiled some time, salt may be added, if desired for the mixture, stirring occasionally, from thirty minutes to one hour, or until the sulphur is thoroughly dissolved and a clear, amber-colored
solution produced. Then dilute by adding
cient hot cient hot or cold water to make fifty gallons.
Pass the mixture thing Pass the mixture through a strainer with at least twenty meshes to the inch into the spray doarrel, und apply to the trees warm." when large quantities are used. by fire or steampracticable to cook the mixture as follows, with, it is recommended to be made as follows, with the expectation of getting fair
results : © Good quality, freshly-burned stone
lime, 20 pounds ; flowers or flour of sulphur, 15 pounds ; caustic soda, 10 pounds of sulphur, 15 gallons. Mix the sulphur with a small amount caustic soda gradually to the sulph add the lump the sulphur is all dissolved, pour this solution with enough water to keep from burning, upo slake, keeping the heat the same to thoroughly possible by placing a sack confined as much as
lute with barrel.
Diute with cold water to make the barrel. Di-
strain into the suray
gallons, and Flowers and spray barrel." about equally satisfactory. After been found
experiments, it years' experiments, it is recommended to spray as late
in spring as possible in spring as possible before the buds burst, if give two, and this is desi. If it is possible to badly infested, spray in the fall or winter are again in the spring. If it is not wossible and spray in the spring, spray in the fall. possible to
The results will depend largely upon the thoroughness of the application. As the scale may
be all over the tree, it is necessary to cover part, and as the smaller twigs and young wood are usually infested, these should receive special attention, and it may be desirable to go over the
trees after the material is dry and spray again
any tips which have not or oil-skining, the operator should have
or oil-skin coat, hat and gloves, and it is rubber mended to rub vaseline on the hands and face to

MARCH 7.1907
HEADS HIS TREES AT $3 \frac{1}{2}$ TO 4 FEET The height at which I would head young fruit
trees-apple, pear, plum, cherry a half to four feet. This is the height I would also advise the farmer with a small orchard The reasons in favor of low heading are that the trunks of the trees are less sulject to sun
scald and disease when trees are headed low
Sunscald is a prevalent disease in this Sunscald is a prevalent disease in this section i
consequence of the snow covering on the ground onsequence of
The chief objection to low-headed trees is the
difficulty of cultivation: but as is point in your article, it has been overcome by the ou ension disk harrow. Low-headed trees are less liable to drop their fruit in high winds, and the
fruit is much more easily picked than fre fruit is much more easily picked than from trees
which are headed eight to nine feet. Nowadeys which are headed eight to nine feet. Nowadays
when labor is scarce, the facility with which apples may be gathered is a great factor in
profitable orcharding.
profitable orcharding.
Montreal, P. Q. R. W. SHEPHERD.
EXPERIMENTS WITH VEGETABLES.
The practical nature of the educational work perimental Union through its system of co-opera cive experiments, is now well known and appre-
ciated in Ontario. Thousands of farmers and fruit-growers are taking part in these experiments, and are profiting by the experience. The scope of the work is being somewhat enlarged this
year by including in the work tests with a few
of the garden vegetables. This, it is hoped will of the garden vegetables. This, it is hoped, will
help to draw attention to the importance of the egetable garden as an adjunct to the farm horne. Arrangements have been made for furnishing seed rots, lettuce and tomatoes, and it is probable that other garden crops will be added to the list next year. The varieties selected for each experiment, as given in the following list, are among
those which have given the best results in the extensive vegetable experiments conducted in the College gardens at Guelph, and are most likely to
give satisfaction in the farm gardens throughout give satisfaction in the farm gardens throughout
the country: Experiment with Beets-Mlack Red Ball,
Eclipse and Model. Experiment with Carrots.-Chantenay, Danvers
Half-long and Rubicon. Half-long and Rubicon.
Experiment with Lettuce-Black-seeded SimpExperiment with Lettuce.-
son, Denver Market and Hanson.
Experiment with Tomatoes.-Earliana, Stone
and Success. Applicants for the tomato experiment should
have now available the soil have now available the soil and materials for the
preparation of hotbeds or window boxes in which prepararion of hotbeds or window boxes in which tario who wishes to join in the work may choose any one of the experiments, and send in his ap-
plication for the Seeds, and instructions for conplication for the seeds, and instructions for con-
ducting the same. All will be sent by mail free ducting the same. All will be sent by mail free
of charge, but each applicant must agree to try
to follow the directions furnished to follow the directions furnished and to report
the results of his experiment at the end of the the results of his experiment at the end of the
season, whether successful or not. A circular giving full instructions for con-
ducting the experiment, and blank forms upon
which to report the results will be provided with which to report the results will be forms uponided with
each lot of seed. Applications will be filed in the each lot of seed. Applications will be filed in the
order in which they are recived until the supply order in which they are recived until the supply
hecomes exhausted. Address all applications to Ontario Agricultural College, Guelph. HUTT.

## POULTRY.

INCUBATION.
For a long time eggs have been incubated arti-
ticially, but it is very difficult matter, but it is very difficult to find any printed vay. There can be little doubt that a scientific tudy must first be made of natural incubation beers. Some may say that artificial incubation
is a success to-day, which is quite true: yet, at解 same time, those who have given the subject e too many fully-formed dead chicks in the Thell and a greater mortality dead chicks in the
han should be. All agree that heat is necessary to hatch eggs, grees $F$. Eggs will hatch at a lower and higher hat effiect have these temperatures on the vital of the chicks? Then there are the questions
ventilation and moisture. These in themselves
 It, would be much easier for me to write about
iat I do not know about this subject than what I do not know about this subject than what
know ; but since you request me to write

Heat is applied to eggs by three methods:

1. Constant.-Example: The hen's war onstant.-Example: The hen's warm
coming in. contact with eggs. Radiation.-Example: Any tank incubator the Chatham is a type.
2. Diffusion.-Example heats Diffusion.-Example Any machine which through layers of cloths or other material. same chine type, The Cyphers. in making a machine that was a good hatcher and used contact heat, so that was a good hatcher and tors are either radiant or diffusive machines, or a combination of the two.
One of the difficultits
One of the difficulties is to get a machine to or, it might be better to say, hatching chamber, temperature in every inch of the egg-tray. Several manufactures have come closely to this requirement, but I have yet to find a machine that heats not be absolutely essential that we have It may ation in temperature, but the variation should not be greater than $1 \frac{1}{3}$ degrees at the most. To get an even temperature, the machine should be either end, the usual plan is to raise the warm on of the machine until the temperature registers fairly even. In some machines the egg-tray can A machine should be automatic in its regula-
tion of temperature. on the temperature. There are many devices now are fairly successful if treated with a reasonable amount of care. The question of the regulation vestigated than perhaps any other single point
the incubator is imperfect, as companed to the hen or how a hen hatches eggs.

## पि <br> THE FARM BULLETIN.

## SOME GOOD DAIRY TALK

he mass meeting of dairymen, held in the town hall, Tillsonburg, Ont., on the ovening following Mr its way. The audience was large, and composed chjefly of dairy farmers. M. S. Schell, M.P., recited the familiar story of Canada's ascendancy and present supremacy in the British cheese market. of the improvement in transportation facilities, he said tha
whereas a few yours ago we had no refrigerated storage for dairy products on our ocean steamships, the amount of cold-storage space now provided and offering is actually in excess of the demand. Himself a suc cessful dairyman, Mr. Schell was Justified in sayling said, that the average annual milk production per cow in Canada was only 8,000 pounds. Thiere has been considerable improvement in recent years, though the have many dairymen whose cows average 6,000 pounde, and some quite large herds giving $7,000,8,000$ or 9,000 pounds, and ever 11,000 or 12,000 pounds has been attained. He instanced one man who bought a cow to supply milk, and after crediting her at retall prices for
her product, found she gave bim $\$ 150$ worth tn the year, at a feed cost of $\$ 75$. It pays to feed a cow within a measurable limit of her ability to parduce.
It may not pay to crowd her to her utmost eapacity. It may not pay to crowd her to
but it does not pay to starve her

The speaker paid high tribute to Mr. Rice, his country than haif a
dozen average statesmen. dozen average statesmen-
By his enterprise, his By his enterprise, his
business success, and by
his victories at Guelph his vistories at Guelph
Toronto, Chicago, and Toronto, Chicago, and lished a record and repu
tation, and been an example to the young men of his country. Responding to a re-
ques from the chair.
Mr. Schell outlined the
provisions of Hon. MM.
Fisher's bill for assistaner's local cold-storage as rprisees. The Govern ent is anxious to se ment is anxious to see every suitable center
but, of course, those
who wish to ho wish to advantag
ake the instiative,
BUILDING UP DAIRY HERD.
Queen $=62686=$
Threeyear-old Shorthorn cow, in the hend of 'Jas. A. Crerar, Shakespeare, Ont
be sold at auction, on March 18 th ,
It is a common in-
presesion, saty Prof

1. Dean, in opening 1. Dean, in opening,
in connection with the manufacture of incubators: Nearly all successful machines are carefully made,
so that sudden changes in outside so that sudden changes in outside temperature
will not influence the temperature chamber materially. To do this requires double cased machines. Machines built with single-board walls may hatch well enough in summer, but my experience is that they are not very satisfactory
in early spring or winter. Fibre board is likely, in fact, is now used in some incubators. If this material will not contract or expand with heat or moisture, it will be an improvement over
what is now used in the construction of machines what is now used in the construction of machines
I do not know that anyone is positive as to the amount of ventilation that a machine should be given. I have so far been unable to find how much circulation of air there is under an incubat
ing hen. We have proof, beyond doubt ing hen. We have proof, beyond doubt to my
mind, that the air does circulate fairly rapidly but just how fast I do not know. We may know before this time next year. Incubators vary in dir-circulation. Most machines of the diffusion
type have more circulation of air than have the radiant-type machines. This does not say that the former type is better, for as we increase the air circulation, we usually dry the eggs down of course, the air is purer in the hatching of course, the air is purer in the hatching-
chamber. The air, as we find it beneath an incubating hen, is not very pure, nor not yet very To the best of my knowledge, the hen's method differs mostly in the amount of moisture in the air in the hatching-chamber, also in the composition of the air surrounding the eggs.
tell you can always
lessor, but you can't tell him very college pro care, however, to exonerate from this charge the stat of the Ontario Agricultural College. Proceeding to his subject, "Bullding up a dairy herd,", he said there
are five helpers of the dairy farmer : (1) His fand are ive helpers of the dairy farmer: (1) His farm; (2)
his cattle; (8) his products; (4) his markets; and (5) his family. .The farm is the basis of all successfu farming. "Show me,"' he said, "a a neighbiorhood with good soll, and Y'll show you people with good find poor, wizened hearts."' In this connection he told a story of a Scotchman. who always sat down near the church door, so as to keep his collection money as long
as possible. Keep up the fertility as possible. Keep up the fertility of the farm. Upos long a bank had been established, and was open he noticed week to take care of farmers' accounts. In contrast to the old days, dairy farmers now recelve cash for keduce, and don run store bills,
Keep a clean barn, free from dust and cobwebs : have it orderly, and if at all possible, have the build chairs around kitchen are a great many men polishing engaged straightening up around their barnifland the the omen would be glad to get rid of them, he added.
We shouldn't be satisfied with an ordinary co a year. During the next ten be 6,000 pounds of milk a year. During the next ten years there is going to
be fought the greatest battle of the breeds ever known. Whereas in the past pure-bred animale have been culled by hundreds, in the coming struggle pure-breds without performance will be slain by thou-
sands. When you go to buy be able to tell you exactly what that the owner should No one should be satisfied with ordinary cows. Better
poor ones. Give the poor ones away to the man you
have a grudge against. Filk your coll floed well in winter. The quantity of much on her pasture then as on what she gets this whinter. The time to make a cow a large producer is when she is dry. Build up her system then; build up and blood into milk. He hoped sometime we might be able to talk to cows in their own language. There are men now able to understand the language o
monkeys. It will be a great day for the cow when monkeys. It will be a great day for the Probabilities poin ets for some time to high prices for dairy prod

A quart of mille contains prods in clean stables, and millsed pound of beefsteak, but how shocket nutriment be if their milkman asked them 15 cents a puart for to be equivalent in food vain, has been demonstrate best beel. In European countries, where the housewite has to economize, she realizes these facts. The world bacon as articles the economy of dairy products and Our markets are of
We are neglecting the home kinds, home and foreign Tor fancy products. There are people in every town who would be glad to pay seven cents a a quart fo
clean milk-milk produced by clean thenthe
cleanly men. Our population and cared increasing. There population and home marke them.
pend ast of all, the family. The wealth of car pends not upon her minerals, soil or timberada beep people. The question is often raised, .'H up Keep the boys on the farm?" The answer "How Keep the girls there. At the Macdonald Institut a Give they are trying to help the farmers' daughters noney. boys and girls an education rather tha mones. Let the boys earn the money they get.

## New Brumswick Farmers' and Dairymen's Meeting.

The 31st annual meeting of the above association
\#nas heled at Fredericton on February 12th and 13th. Tresident Donald Innes read a very suith and address.
inth
Amongst the many subjects treated, he said our G Amongst the many subjects treated, he said our Gov-
ernment must adopt a more vigorous immigration
poliey, and try to policy, and try to get some of the people that are going west. He advised our ourn younge, instead of at home. Here they will have more comfort, and will in the end be better off. The future is in the han of the young men, and success is sure where thare is
enterprise and industry. The Farmers' Institute doíng good work. Its future will be just what is farmers make it. Union is strength. The farmer of the future will take his place in the front rank of men. To do so he must be educated. Nowadays it isn't al-
ways the man who works the hardest that makes the
most money. The increased most money. The increased uare of machinery, the
rapid growth of the dairy and stock-raising interests and the markets opening up for our farm produce of vailed a few years ago, and make a higher ond intelligence and wider information necessary. The cou try home should be the ideal home. While the city may have more luxuries, it lacks the quietness and
seclusion necessary to make the home what it ahould

One matter we farmers should bring to the notice of our Government is the damage done to sheep by
dogs. A good, well-trained dog is all right, but it is dogs. A good, well-trained dog is all right, but it is
time the farmers should press the matter on the notice of the Government, so that the law may be amended
in the direction of reducing this nuisance , garding dogs kept in towns and villages.
sioner of Agriculture : Ald. Everett. Acting Mayor: sioner of Agriculture: Ald. Everett. Acting Mayor
Prof. Cumming, of the Agricultural College, Truro Prof. Klinck, of the Maodonald College, St. Anne de
Rellevue ; Mr. T. A. Peters, Deputy Comiseioner Rellevue; Mr. T. A. Pe
Agriculture, and others.
After the President's address, Ald. Everett, on be-
half of the Mayor, Dr. McNally, who was unavoidably absent, welcomed the farmers to Fredericton. As a ures of farming, also something about the drudgeries:
but but he was glad to know that, owing to the improved
methods of cultivation, the methods of cultivation, the latter are gradually but
surely becoming a thing of the past. Agriculture surely becoming a thing of the past. Agriculture
towers above all other pursuits, and there could be no
loubt thet doubt that exchange of thought, such as is furnished
by these and kindred meatings. was by these and kindred to the farmers of the Province. was doing greal gave his L. Pnual address before the association. Mr. Farris spoke of the past season as a trying one, owing
to the extremely dry weather which prevailed during to the extremely dry weather which prevailed during
the growing season, especially throughout the middle. and eastern sections of the Province, causing anarge of this station, had been trying experiments in and eastern sections of the Province, causing a short- with the dry-mash and happer system of fepding, and
age in these sections in the grain and root crops. was so satisied with the results that he found himself
Notwithstanding this, he was glad to be able to report able to keep a flock of 2.000 hens in one that there was an increased production in all crort. able to keep a flock of 2.000 hens in one pen 300 feret
with the single exception divided into 20 rooms; and one man wat that there was an increased production in all crozs. Iong, and divided into 20 rooms; and one man was
with the single exception of potatoes. Of wheat therr. fuly able to properly attend to the wants of the whole
were 406,853 bushels grown, with an average of 19 , lot. In conclusion, he advised farmers to urge upon
bushels per acre; this being an incrense for bushels per acre; this being an increase for 1905 of the (iovernment the advisability of establishing a
2,000 bushes. Oats, 5.695 bushels, with an a arage
of 29.2 bushels per station either at Fretcricton or elsewhere.
of acre, being an increase of 209,000
where proper plant and appliances could be placed, ared bushels over 1905. In berley, 99,355 bushels, a yeld
of 23.2 bushels per acre, heing an increase of 2 , 4101 bushels for 1905. Buckwheat, $1,179,999$ bushels,
average of 20.4 bushels per acre, bein! an increase of
23,000 bushels over 1905. Turnips, $2,7601,932$ bushels.




SSistance to scholurs

COLLEGES
oung mas altending the agricultural colleges, given to ing their transportation expenses, is haviog a payeflect. Twanty-one students attended the recent ghort
course at the Truro illustration orchapds.
of the illustration orchards set out in various parts of the Provinces are, with very few exceptions, being
well cared for, and are resulting in interest being taken in the care and mood deal more orchards. There are now twenty of these orchards
established, and the work will le continuel He would like to appeal to our fruit-growers, that they would, in picking their fruit next fall, select good
samples of their samples of their apples and send an exhibit to the Maritime Fair at Amherst. If the exhibits were more Brunswick apples would compare very favorably with anything from Nova Scot
poUltry production
Prof. Klinck next read a paper for Mr. Baxter, of Andover, who was unable to to present.
Poultry-raising was an industry
Poutry-raising was an industry that did not
present receive the attention it deserved. It was not
sufficient to simply ber sufficient to simply attention it deserved. It was no but farmers ought to so increase their production as to be able to ship their surplus produce to the British markets. Our main supply of poultry came from the small farmer, whose average flock was fifteen or so head. What the creamery organizations were doing fo butter and cheese, the fattening stations should do fo
poultry. It should collect poultry from it and pack and ship them to the foreign markets Poultry-raising was in them to the foreign markets other places, and there could be no doubt that it with
a great mine of wealth when He thought wealth when properly attended to. assistance of the $\mathbf{N}$. B. farmer in the to come to the try-raising in the same way as it had done for dairying. The best results which had come under his notice Were obtained at the Maine State Poultry Farm at
Orono. Here 1,000 hens are kept. and hict trap nests they were able to spot the best layers with out difficulty. Those hens which laid last layers with-
oggs and
over per year are over per year are kept for breeding, and are mated With binds whose mothers have laid 200 eggs. This method of selection has resulted in increasing the verage number of eggs per hen from 120 to 144 in
heir pullet year. Professor Gowell. who was in avail the young men and women of the province could Mrded. Sheep-raisinc: aritime Provinces are admiratily adapted for shee
aising. and our local markets are by no means Nising. and our local markets are hy no means yet dairy industry.
The dairy industry was also han
tain extent from the same cause ac
conditions, viz., very little rain du conditions,
sheep require a better fence thang. It is true that stock. But this is not much of an excuse, as every good farmer keeps his fences in order, and, as every he fencing, they require only cheap buildings for shela certain amount of truth in this, butures. There is a certain amount of truth in this, but it is scarcely fair to the sheep if a man's pastures are already well Sheep being omnivorous eaters, will eat the sheep. weeds and clean a good deal of land which is otherwise principal reason given by farmers for not is the sheep, and in a good many instances there is a keeping tain amount of truth in it. Now, in New Brunswick you have a better law than in any other Province in
Canada regarding the dog nuisance. Generally speaking to make
cess, the great secret is proper mana-bereding a suc no doubt that sheep are the easiest kept stock on farm, and there is no kind of stock which will mor
 of dry feed to make one pound of mutton, whereas
takes 13 pounds of similar fed beef. If they are to be profitable they must have good pasture. It is useless proftable they must have on the bare hillside. They require less grain tha
other stock to do other stock to do well, but they need good succulen going into the sheep business, It any man purposea tensive manner ; go quietly and feel bot in an ex you get more experience and become accustomed
them, increase your stock. this does not require much discussion. All the keep ent breeds, be they long-woolled or short-woolled, ar
profitable, but the question profitable, but the question of which breed is of smal
importance compared with care importance compared with care and feed. The chie
thing is to take one breed and keep to it. hold of a good book on sheep-breeding to and read it and
profit by the profit by the information it contains. A lively discussion on the dog question followed, in part. Mr. Justice Hannington sugpested the took of a resolution, that the law is not sufficient ado lect the sheep industry in its present state, and asking hat it be remedied. The sheep industry is at present one of the most inportant in the country, and he was up on a farm and amongst sheep most of his life. He ould hardly agree with Prof. Cumming, that any kind sheep would do to keep. He thought very strongly -and his opinion was borne out by some prominent hropshire hact. there is very little finer mutt this country; in S the Shropshire shecep finer mutton than is produced
the way they were anded, however, on them. They were kept and the attention bestowed on
thasture well on any they are the onsonable kind there are on the fare the greatest scavengers of weeds
He was entirely in symper with the previous tarm. He was entirely in sympathy he best remedy for the nuisance, in his question, and resolition on dog nutsance
 will be more protection to the owners of sheop fron ay tavages of dogs. and we ask this, not in any ial goord is obtained. "s at the present time no mate nd carried by 12 votos to 9 .
prof. KLLACK on Shed SELfCTION. mportance to all farmors. no matter what of greanch
months, which caused a shortage
the high prices that prevailed
product of cheese and b
the season of 1905 . 88,1
the season of 19
The total make
was 1 a
was $1,320,858$ pound
The total amount
(90) was $\$ 373,963$.
from large plump seed a crop of 17 tons of fin ...
was obtained, whereas from ouly $8 \frac{1}{2}$ tons was the result. These crops might se mel
small to some farmers, but the see anfavorable conditions.
It was highly
It was highly desirable that only the best seed
should be sown, and farmers should see that should be sown, and farmers should see that sed
seedsman supplies only the best. On receiving seed for the year, he would advise farmers to carefully
examine them, and if necessary run them throus sieve or fanning mill, and discard all the small and
indersized seeds, and the resun them indersized seeds, and the result of using only the larges mixed lot of seeds is sown the involved. Whe duce large, vigorous plants, the medium seeds pro divantage of sowing only strones weakly plants. The be apparent by a uniformly strong and he grain will The weakly plants in a crop are only a hindrance to
the strong ones, taking up nourishment which o to the stronger plants, and Ahment which should duce poor grain. Moreover, by using the sieve or pro-
anning mill, one gets rid of weed seeds whicher present with the grain, so that the trouble of may be
he graiting is doubly repaid. Not ohe grain is doubly repaid. Not only is the quality
of the grain better, but the yield is much heavier both grain and straw also. the crop, one will have an uphill job in not suited and the best results can be obtained by change of seed
but on earth suitable for the crop, the the use of the same feed year by year, using advised ning mill to get only the best seeds. Most fanthink it best to change seed every two or three years in any case, but from experiments carried out in recent
years it has been shown beyond doubt that the same years it has been shown beyond doubt that the samee
seed would, if judiciously selected, give better results than change of seed on land suitable to the crop.
quoted results which bore out his statement showed that an increase of 10 to 25 bushels per acre
bad been obtained by using the same selected seed had been obtained by using the same selected seed
the same ground, and this without impoverishing t land in any way. It was a current belief that pot
toes would run out toes wonld run out quicker than grain if the same kiand
were continuously used, but in an experiment carried on in four-year periods with seven varieties of pota-
toes, the first four years per acre, whilst the last four years showed a yield of 100 bushels. This was pretty conclusive evidence that
the same kind of the same kind of potatoes carefully selected would con-
tinue to thrive year after year on the same planting seed potatoes, the results obtained soil. ing different sized potatoes was very marked from plan periments extending over eight years, it was found that large whole potatoes gave a yield of 199 bushels to
the acre; medium whole ones, 173 bushels: small the acre; medium whole ones, 173 bushels; small whole,
tmarketable, 116 bushels, and small, unmarketable, 99 bushels; but the use of large whole potatoes was some what of an expensive method, and whilst it was found most profitable to use only these large whole potatoes. The yield might not be quite so large from the cul seed as from the whole potatoes, butge the quality an
average size of the crop from the cut seed would b average size of the crop from the cut seed would be
hetter than from the small whole seed.
The process of selection of the fittest applies just as The process of selection of the fittest applies just as
iorcibly in the case of seeds as of live stock, and al-
though by the though by the use of the fanning mill and sieve we
yet the largest grain, yet the process of selection will wet the largest grain, yet the process of selection wil
be used to further advantage if we walk through our
צrowing crop, taking the largest arowing crop, taking the largest and finest heads of
arain and using the grains from these heads for seed Speaking of the diseases of plants, heads for seed.
of thut was one of the greatest nuisances, and he suggested damping on the grain. The solution required to to be made im-
mediately
Thefore being used, as it lost its strength if Mr. Alward reported that the deme. question appointed to confer with the Minister the dog culture had met, and resolved to ask the Minister to
use his influence with use his influence with the Government, with the view
of bringing about a change in the law, so that the power now vested in the municipal council of suspend-
ing that provision of the Act relating to the tax om
dore dioss on the petition of 15 taxpayers, be annulled.
OFFICERS FLECTED OFFICERS FLLECTED.
President, H. H. Smith, Hoyt Stat
dent. Rev. M. P. Babineau, St. Jation: Vice-Presi-
Secretary, B. M. Fawceat. Sackyille. Cocording Secretary, B. M. Fawcett. Sackville; Corresponding
Secratary, T. A. Peters. Fredericton: Treasurer, Har-
eex Mitchell, Sussex.

SOLOMON'S PLAN
-
ANOTHER SUCCESSFUL SALE OF HOLSTEINS draft sale of Holstein cattle, brood sows and carriage horses, held by Geo. Rice, at Annandale Stock Farm,
Tillsonburg, Ont., on Wednesday, February 27th. Mr. Rice is a man of generous ideas, and when he under-
takes to make a cake he does no of a spoonful of shortening. not spoil it for the lack advertised, both locally and in " The sale was liberally
cate." ate." An excellent catalogue had been distributed, giving not only the breeding, but the official seven-day and, in some cases, monthly records of all the cows cows and bulls. The attendance was very both Guests from a distance were entertained in the hotels, and in the evening a largely-attended mass meeting for programme of speeches and musill, where an excellent The sale was held on the drive floor of the mense brick barn, and though plank seats were ranged
tier upon tier, amphitheatre like, every foot of sitting tier upon tier, amphitheatre like, every foot of sitting
and standing room was so packed when the sale tegan and standing room was so packed when the sale began
that few could obtain a fair view of the animals under
the hammer. the hammer. It was almost exclusively an Ontario
crowd, though they came from the extrem crowd, though they came from the extremes on the
Province, east and west. Province, east and west. A large turnout of Mr.
Rice's old neighbors in Oxford County added materially tice's old neighbors in Oxford County added materially
to the numbers. The stock wa
standard, representing the fruits of twenty a high perience as a breeder. Bidding was strictly years' ex-
and the whole plan on whide, such as to guarantee the success of futuraugurated, Major F. R. Almas, of Norwich, wielded the auctions that knocked down the cattle.
called Rose Rattler animal wis a six-year-old cow called Rose Rattler. purchased by W. D. Rreckon, of
Bronte, for $\$ 500$. The total of 32 head of pure-breds,


[^0]including a good many calves, brought $\$ 5,315$, or an average of $\$ 166.09$. Of this the 19 cows and heifers
realized $\$ 4, \$ 35$; average, $\$ 228.16$. Thirteen bull calves, $\$$ all but three being under twelve months old, brought $\$ 980$, an average of $\$ 75.39$. Ten grade sows averaged old grade cow and a couple of heifers brought the tobal proceeds up to practically heifers brought the seeded the proprietor's calculations by nearly a thou-
fid dilars. FEMALES.
Starlight Maid; W. E. Thompson, Woodstock, Ont. 8175 Minnie R.'s Countess; W. D. Breckon, Bronte
Corinne Albino De Kol; J. S. McCannell, Milton... 235 Rose Rattler; W. D. Breckon, Bronte................... 500

De Kol Houwtje Clifden Crowningshield Expectation ; R. A. Pen| hale, St. Thomas |
| :--- |
| Calamity Jane Duchess 2nd; W............................... 245 | Rhoda Crowningshield Colantha: Fred Carr, St.

Thomas Thomas ..................... ............................... 220
Bleske Aconeth; . G. Blackmore, Gobles.......... 155
Carrie De Kol of Howell; Geo. Robertsom, Almonte $\begin{array}{llll}\text { Clarice Clothilide 2nd; W. . D. Brechort, Bronte........ } & 185 \\ \text { Cherryvale Winner ; W. D. Breckon, Bronte.......... } & 200\end{array}$
losco De Kol; H. Burrill, Holbrook...................... 200
Lady Agnes of Avondale; R. C. Walker, Villa Nove Ladzevere Barnum 2nd ; A. McIntosh, Arkona....... 20.5
Funice Clay Eunice Clay Butter Girl; J. S. McCannell, Milton 215
Countess Wayne of Ferndale; W. E. Butler, Norwich 215
Belle Dewdrop Belle Dewdrop 2nd; Walburn Rivers, Folden's....... 20
itar Matler Bato
ictor Butler Baron (b., Mar. 30th, '06): Geo. A. 8110 If J. J. E., of Middlesex Co., Ont., will send us
Leslie, Listowel
alamity Canary Prince (b., Nov. 11th, 05.......... Major and and post-office address, by which we may

CROPS, ETC., IN ANNAPOLIS COUNTY. crops in some years, and es a result mille smallest grain used very freely. Roots are being fed more laergely glad to see better cattle in the stalls. Ensile we are is not a successful crop, so roots must be usilage corn culence in the ration. Hay is $\$ 10$ per ton, bran is
$\$ 24$, and some of our farmers are hugging the
sion that sin and some of our farmers are hugging the delu-
sion that with these prices they are making of cows that give from 1,000 to 8,000 pounds mill out
year. One man who aspires to dairying, proudly told that
his four cows made 600 pounde his four cows made 600 pounds butter a year, while
another neighbor, after informing me the money in cows,"' saifd that his two cows made sie is him last year, over and above what was used in the
family of three. The stock depletion of 1905 is still felt, both in
prices and scarcity of stock. Very prices and scarcity of stock. Very little beef is mov
ing, and good prices rule. Farmers /are stocking however, and as a result hay is firmer in stocking up, reason of recent under-production, horses For the same still high, though we must surely see lower prices are the near future. Farmers here add to their yearly income by hauling cordwood and logs in the winter since the former is worth $\$ 3.50$ per cond, and the lat-
ter, when sawn into lumber, worth $\$ 14$, superficial feet, the work is reasonably remunerasand his name and post-office address, oy which wend us may
nake sure he is on our subscription list, his legal query
vill receive attention.
the insurance commission's report

The Royal Commission appointed by the Dominion Government to enquise into the conditions of life insurance in Canada, has made its report. In it is contained a draft of an insurance bill, embodying its
recommendations to Parliament. As to the investigations made by the commission, it may be said that it revealed no such flagrant state of affairs as was found
in the United States. Abuses develop more slowly in the United States. Abuses develop more slowly
here than there. Our neighbors discover a cancer eating into theire. Our neitals and usbors discover a cancer us to make a diagnosis in the same organ of our
system, and we are thus able to lance the lesion in an early stage. Our insurance commission has probed
some abuses which, unmolested, would have asumed some abuses which, unmolested, would have assumed
larger and larger dimensions. Just here it is enough
to note thet the to note that the commission's findings reveal some
public men in a rather unenviable light, and unless public men in a rather unenviable light, and unless
they can vindicate their action more amply than now they can vindicate their action more amply than now
seems likely they deserve nothing less than ostracism
from public life. The insurance compenies, from public life. The insurance companies, as a
whole, are none the worse for their experience under the limelight. Some have come through the ondeal
with reputations untarnished. Policyholders, with reputations untarnished. Policyholders, present
and prospective, have been remiss in duty to them and prospecive, have been remiss in duty to them-
ellves if they heve failed to scrutinize the reports of
the investigation the investigation as published in the press from time to time.
ance bill recommended of the clauses of the insurThe proposed new act is contained in a document of 76 octavo pages, and embodies the chief principles
contained in the New York Onta stocks and bonds purchased.
Provision is made for inspecting the head offices United States companies regarding Canadian business. Insurance once in three years.
All bonuses or additional c.
renewal business arre prohibited.
Companies
Companies holding securities or
render invalid, to dispose which the act would
date after the passing of the act.
Federal or Provincial stocks the only kinds com-
panies to be permitted to invest in. way, directly or indirectly, with the promotion in any other company.
If the Superinterdent of Insurance believes real
estate held by any company is over-valued he may write off an amount
The payment of rebates of any kind to be forbidden
PERTH AND ABERDEEN SHORTHORN SALES The annual spring sales of Shorthorn bulls at Perth
and Aberdeen, Scotland in and Aberdeen, Scotland, in the week ending February
23rd, were very succossful, the average for 310 bulls at Perth being $£ 63$ 17s., and at Aberdeen, 827 14s. for
210 bulls. 210 bulls. The highest price of the week was 1,000
guineals ( 85,220 ), for Achilles, bred by Bruce of
Heatherwick, the frst-prize senio guineas ( 85,220 ), for Achilles, bred by Bruce of
Heatherwick, the frst-prize senior yearling bull at
Perth. He was started at 200 guineas, and captured Perth. He was started at 200 guineas, and captured
by Mr. Duthie, of Collynie. He is a red, got by the Collynie-bred sire, First Fiddle, and of the Augusta Pamily; calved December, 1905. Mr. MarLennan and
Mr. Miller, both of Buenos Airies, and Mr. Durno, of Westertown, wero all after him, but Collynie proved longer winded than his rivals, and secured the plum. The second-prize bull in this class, Silver Pride, bred
by Mr. McWilliam, by Pride of An guineas, and fell to Mr. MacLennan at 300 guineas In the funior yearling class the first-prize bull, Suineas. Si . y Charmer, by Spicy King, bred by Mr. Anderson, Sap
hock, sold for 900 guineas to Mr. Hankins, London hock, sold for 900 guineas to Mr. Hankins, London;
Diamond Marksman, by Diamond Mine, bred by Mr. Durno, Westertown, for 500 guineas, to Lord Tredegar;
Romal Royal Victory (Mr. Durno's), by Roval Mint, to Sir
John Gilmour, for 600 guineas; and Diamond Banner John Gilmour, for 600 guineas; and Diamond Banner
(Mr. Durno's), for 580 guineas, to Mr. MacLennan.
The Ballechin group of three aregren three from Westertown $£ 46510 \mathrm{~s}$. Heatherwick had an average of $£ 318$ for four
age of $£ 258$
16 s . for
PROF. HENRY RESIGNS.
Wr. A. Henry, Dean of the Wisconsin College of
Ariculture and Chief of the State Experiment Station,
has tendered his resignation, to take effect July 1st.
The cause is ill-health. Prof. Henry has been connected
with the University for twenty-seven years, having
been elected Professor of Botany and Agriculture in
1880. He is the author of Feeds and Feeding, a
standard American work on the subject of which it
treats. He is one of the stal wait figures of American
professional agriculture.

Hon. L. J. Tweedie, Premier of
n
been appointed
Lieutenant-Governor
The press despatches state it is expec
call upon Attorney-General Pugsley
call upon $A$
Government.

## MUNICIPAL IMPROVEMENTS

 We present herewith a synopsis of an address deivered by R. H. Harding in East Middlesex, Ont. The points raised are well worthy of discussion
has hove thought for some time past that Canada has not made advancement along municipal lines in principal cause is that we farmers as a class accept the laws and customs of the past without making protest, or suggesting anything better. We should be ever ready to advance along all legitimate lines. To this provements from a municipal standpoint, and I believe several changes can be made without any special legis lation, though, perhaps, the Municipal Act would require to be amended to allow of some others being The first change that I will refer to is with refer
ence to our municipal elections. Would it improvement to elect our council boards for a term of three years, instead of yearly as at present? This sysas the councillors act as commissioners, as they do in the majority of cases to-day. If a man is elected in three years he has a chance to plan his work on a systematic basis, do it more permanently, and get it done , more cheaply than when done in dribs and drabs-
here a little, and there a little. be able to give a better account of moneys spent wher his term in office expires. Under the present system we are continually training new men for the work, and sometimes turn good ones out of office before we really
know their value. Along another line whether it is necessary for an assessor to travel over a township oftener than once in five years. It it is necessary, the law should be so changed that the work could be done in May and June, when assessors could
see what they are valuing to very much better advansee what they are valuing to very much better advan-
tage than in the winter or early spring, when very little can be seen but snow or mud and water. very While discussing the assessing question, we might
discuss the assessment law. Is the present law one that encourages the enterprising farmer ? I say Iarmer, because I know how it affects him better than
I do how it affects other property holders. I think most farmers will agree with me, that any law that makes it necessary to tax every additional improve-
ment that you make (even though you find it to insure that improvement) is not a good law to pro mote the erection of the best class of buildings, or even beautifying the farm with treess, etc. I admit it
is a difficult problem to Is a difficult problem to solve. For argument's sake,
I will lay down a plan upon which I invite a free discussion. Suppose we allow that a good average farm (I mean the land, without taking into consideration
shade or ornamental trees shade or ornamental trees or buildings) is worth $\$ 35$
per acre, and allowing that that per acre, and allowing that that farm is equipped with
the worst class of buildings, value them at $\$ 1$. 000 which would make the total assessed valuation $\$ 4,500$
per 100 acres. per 100 acres. Now, suppose the next farm is equal $\$ 35$ per acre, soil, put on the same valuation, viz., are of the best, the assessment on such buildings trees not exceed $\$ 2,000$, making the total assessment for the 100 acres $\$ 5,500$; or, to make the system short, assess the naked land at full value and put the minimum
valuation on farm buildings and improvenent valuation on farm buildings and improvements, $\$ 1,000$,
and the maximum valuation $\$ 2,000$. Is it necessary for a collector to travel over the
township at township at all? A slight increase in the treasurer's
salary, suffcient to pay for the trouble and expense mailing tax notices, etc., to every property owner ing a change of this kind, the of owner would require to
bo held responsible for that bo held responsible for the taxes, instead of holding
tenants responsible. Another to tenants responsible. Another change that I am satis-
fied would be an improvement, and which in the power of council boards, would be quite withcertain systems of council boards, would be to adopt commissioners and pathmasters building accordingly-
1 mean according to the requirements of the different roads, as very heavily-travelled roards of require to be to be
much wider than what we might term the average much wider than what we might term the average
road. I think many of our average roads are built
too wide ; the wider the road the more too wide ; the wider the road the moads are built
quired on it to keep it crowned so that water will not lie on it. The average road should be about 24 feet
from outside to outside of ditches, and should be graded
with a from outside to outside of ditches, and should be graded
with a gradual slope from bottom of ditches to center
of roard to about two feet of crown, which when gravelled, as should in every cate crown, which, when
would have about immediately,
should feet of crown ; the wider roads should be crowned about the same proportion. Any
place requiring deeper ditches should times wonder if it would not phayld to tile tiled. I some-
roads on on our side of the driveway roads on one side of the driveway. A judicious use
of the much-abused grader or split-log drag in shaping
the roads, so that the heavy the roads, so that the heavy rains would quickly run
off., would be of great benefit, but as I have suggested,
no fresh grading should be done unless it is to be
immediately immediately gravellech.
While on the sulject of road-luilding, we might dis-
mus. the shade-tree quustion, as it is cenerally conceded 12. the roads in groot repair. How shall we remedy Please find enclosed $\$ 1.50$ for my renewal
Farmer's Advocate "or the coming year, a
some extent during storms, and are also shade
some extent during storms, and are also shade
stock. I think more timber is very needful in
tario, if we expect or wish to escaple tor tario, if we expect or wish to escape tornadoes,
which have already played great havoc in many which have already played great havoc in many pati
of this country. I believe some encouragement alo the line of timber-tax exemption, or along any along that would cause land oxemption, or along any lit their timber would show very beneficial results in
few years. With reference to the Row years. With reference to the shade trees along
roadsides, I think it would be for the beneft roads if the council boards would request, or, if the sary, compel people to keep their trees along roadsides allow anyone to plant such trees upon the road allo would give the sun more than a foot or two. This the roads, and would remove a great deal of prejudip that now exists against trees along highways. The suggestions made only skim the surface of the matte referred to. My aim is to draw out the ideas
others, rather than to make statements thers, rather than to make statements and ask
ceptance of them without discussion

## TEACHERS' SALARIES AND THE FARMER

During the past few weeks readers of "The Farn ussion on the have been much interested in the dis tion which concerns not only the present day, but the welfare of the people of this Province in the distant future, we should be very careful to consider wha Vox Populi expresses the sentiment of the this section of the country when he says that the ob jection raised is not on account of the extra tax, bu ceived. Wages of teachers, with no visible value re
everything else, been regulated in the past by supply and demand The farmers of Ontario came through a number of ver hard seasons only a few years ago, many failing to make ends meet, and as a result lost their property
A few went out West, but many more of our best A ens went out West, but many more of our best citi. brighter. Did the Government aid them so that we might retain their much-needed services ?
Government wisely did what the Government wisely did all they could for trade, and
left matters to right themselves, and "'they're back to Canada to-day." But Sandy Fraser would have the Government raise the salaries high enough so
that the teachers will not that the teachers will not go out West or over to
Uncle Sam's domains. He will also notic Uncle Sam's domains. He will also notice that the
best of our hired men have gone and continue to out West. Why should not the Government raise these men's wages and pay a certain per cent. out of its
revenue? The Province will find that the best policy revenue? The Province will find that the best policy
is to let those go who will not stay without being
bonused. During the time of mentioned, During the time of financial depression just ers' bank accounts. But times have changed. We have
been having a number of fat years and it poor farmer who is not adding to his bank a very or its equivalent, viz., improved homes, stock and farms. But how have the teachers shared in this prosperity? Have they continued to receive such a
small pittance that they cannot this mall pittance that they cannot keep up with the
times ? No. In five years the salary increased in this school section, and would increase at a greater atio, because of the many other remunerative occupa tions now open to young men and women.
Vox Populi rather underestin
Vox Populi rather underestimates a first or second
class certificate when he calls it an ordinary education. But "one school ma'am" "puts a very high esti mate, if she needs $\$ 1,500$ to get a certificate to teach a country school. As a matter of fact, I know of houng man of about twenty who has not attended
high school more than a few months, and began
teach after last holidey teach after last holidays at $\$ 400$ per year on a second lass certificate. To require $\$ 1,500$ must be to go or a good time, or else have. a very thick skull.
Our "School Ma'am" correspondent the domestic servant girl of her acquaintance has her minloyer every goes to Muskoka or elsewhere with he Prince Edward County. Wet a few holidays during the Near, and they go to Toronto or Ottawa, or the employer, whom they must please. As to dressing. as than the fosition demands, it does not demand any more dressed. farmers' daughters, but they are often better "School Ma 'am" seems to think teachers' inoral Above the farmer. Being unnmarried, and still plane
twenty-five. teachers, and their conception of right and wrong was As higher than that of the average fariner's daughter. her friends would not care to parents being such that in society with
them, there are those who would not care to too much with some teachers. And care to associatef
wonder what Vox she says. won much with some teachers. And then she says, 7
wonder what Vox Populi would think of a teacher whe
smoked, swore, gambled smoked, swore, gambled, or drank to excess? In an
swer, what does the public smoked, swore, gambled, or drank to excess? In an
swer, what does the public think of a farmer or his
son who indulpes in these form on who indulges in these forms of intemperance?

## MARKETS

## TORONTO.

LIVE Stock.
Recoipts of live stock at the Junctio and City markets during last week wer
moderate. Trade was not as brisk shipping cattle and common butchers' but prime butchers' were as scarce, an Iunction market, receipts of cattle num bered 1,300 head. Market was easy, but , irices remainod unchanged. Sheep, lambs nd calves were firm, at prices quoted be
how. Hogs, $\$ 6.75$. Exporters.-Prices ranged from $\$ 4.50$
 Butchers'; - Prime picked butchers .050 to 1,200 los. each, sold at 54,75
$i_{5}^{5}$, the demand being $E$ rreater then the supplys several loadd of export cattle be
ing bounht at
85.25
per

 Milkers and Springers. -The market tor
milkers
and




 the latter price being tor 5 . fer per cwt ., chememilik-tod calves.
nem


 per cwt. Sominon lambs, 85.50 to 86



 thick fato. These aita
 Pository and Canadian Horse Exc change,
tor the past week has been booth orikk, althought prices have not toent as high as some tarmers could deation
several buyers have been down trom the Vorthwest, and shipments of carroand to Yanitoba and the Northweet Provincee ailway construction companiee, out there

 chunks, which generally bring good prices. Expressers capable of standing steady teady work also command ready sale at arir prices. The following were the pre
ailing prioes at the Exchange for the past week: Heavy-draft horses, weighing
1,450 to $\left.\begin{array}{l}1,700 \\ \text { lbs., } \\ \$ 200\end{array}\right)$ to $\$ 250$; 1,450 to 1,700 lbs., $\$ 200$ to $\$ 250$;
general-purpose, 1,350 to 1,450 lbs., $\$ 160$ to $\$ 200$; delivery horses, weighing 1,100
to 1,450 lbs., $\$ 140$ to $\$ 175$; matched carriage pairs, 15.2 to 16 hands, $\$ 350$ to $\$ 500$; single cobs and carriage, 15 to
16 hands, $\$ 160$ to $\$ 225 ;$ single road-
sters, 15 to 16 hands $\$ 150$ to $\$ 175$, sters, 15 to 16 hands, $\$ 150$ to $\$ 175$;
sound $\begin{aligned} & \text { workers, } \\ & \text { drivers, } \\ & \$ 75 \\ & \$ 75 \\ & \text { to }\end{aligned}$ to $\$ 100$; sound

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BREADSTUFFS
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Grain.-Wheat-No. 2 white, $72 \ddagger \mathrm{c}$. ; No. No.
2. mixed, 72 c . ; No. 22 red, 73 c ., sellers ;
2. mixed, 72 c . ; No. 2 red, 73 c ., sellers ;
65 c, , Manitoba, No. 1 Hard, 87 fc c. ; No. No.
1 Northern, 8 cc .
Corno-No. 8 y yellow American, 52 cc c. to
isc., on cars, at Toronto ; Canadian,
Oats.-No. 2 white, 39c. ; No. 2, mixed,
为

14
Nomaty

## BUFFALO.

相s.-Active, and 25 c . lower; $\$ 4.25$ to Hogs.-Heavy and mixed, $\$ 7.40 ;$ York-
Hs, $\$ 7.40$ to $\$ 7.45 ;$ pigs, $\$ 7.45$ to $\$ 7.50$; oughs, $\$ 6.60$ to $\$ 6.75$.
Sheep and Lambs. - Sheep, active and
teady; lambs, $\$ 5$ to $\$ 7.70$.

BRITISH CATTLE MARKET

## roo cun SAVE MONEY much. MORE EASILY

if you have an account in the Sav-
ings Department at any branch of

## The BANK OF TORONTO

in which to keep your spare funds. Such an account will prove an in-
centive to save your money, and be
and One Dollupon extravagance. One Dollar (or more) and a few
minutes with our Teller will open
an acount for Interest paid on all Savings
Bal

## Bank of Toronto

Capital $-\ldots 4,0,000,000$
Rest
$4,500,000$
Head Office, TORONTO, ONT.
Country produce
Butter.- Market firmer, and prices
higher. Creamery, pound rolls, 28 c a to
3ot 30 c ; creamery boxes, 28 c . to 27 cos ;
dairy, pound rolls, 23c. to 24c.; tubs, F. to 22c.; bakers' tub, 19c. to to 20c. Eggs.-New-laid, 30c. to 32 c .
Chese. - Market strong. $\quad$ Large, 14 c . wins, 144c. Honey. - Strained, 12 cc per lb.; combs
$\$ 2.60$ to $\$ 2.75$ per dozen sections. Evaporated Apples.-9c. per 1b.
 track, at Toronto.
Poultry. - Recoipts Poultry, -Recoipts continue light; mar-
let frm, as follows: Turkeys, 15 c . to
 Hay-- Sailed, market strong. No. 1
(imothy, $\$ 11$ to $\$ 12$ per ton; No. $2, \$ 8.50$ to $\$ 9$ per ton for car lots, on track, at
Torato Straw. - Baled, $\$ 7$ per ton, on track, a
Soronto.

Prices offered are unchanged as follows: Alsike, fancy, 87 ; alsikike, No. 1 , 86 to to
$\$ 6.25$, alisike, No. $2,85.75$ to 85.85 . sike, No. $3, \$ 4.65$ to 85.10 ; red clover,
No. 18 , $\$ 88.25 ;$ red. No. 2,87 to
87.25 to 7i.25; timothy, No. 1 . 81.50 to $\$ 2.06$
(imothy, No. 2, $\$ 1.20$ to 81.40 . hides. E. T. Carter \& Co., 85 Front St., have
been paying the followin prices
spected $\begin{aligned} & \text { In } \\ & \text { hides, No. }\end{aligned}$ stoers and cows,

 sheop alins, ach, $\$ 1.80$ to $\$ 1.46$; horse
hides $8 \$ .50$ to 8 . per 1 lb. 30c. to 32c.; ; tallow, per li.,
5 to. to 6c

## CHICAGO

 $\$ 3.25$ to 85 ; bulls, $\$ 3$ to $\$ 4.50$; stock-
ers and feeders, $\$ 2.50$ to 85.

 87 pigs, 85.75 to 86.85 ; buiks of sales.
$\$ 8.95$ to 87. 86.95 to 87.
Sheep and

Sheep and Lambs.-Sheep, 84.75 to $\$ 6$ :
ambs, $\$ 6.50$ to $\$ 7.50$.

its best. The reason this butter has not Yoen sent dirrect back to the port. of Now boen sent from here, is that a great
difference is made there between finest and difference is made there between finest and
inderior, sc that the latter would not be inflerior, so that the hatter would not bo
takien there at a proft. There is very little dairy, and prices are about 22c. for
tubse tubs. Flour and Feed.-Although the car sittuFiour and Feod-Aithougn ation is far from satiefactory, it hast imation is far from satiefaciory,
proved considerably during the past fow
weeks. The conditions in the market for weeks. The conditions in the market for
millfed are most unusual, and milers handly know what
tinue to guote $\$ 21$ p bran, in bags, and s22 for tohorts,
though why they should do so to dimilthough why they should do so to dim-
cult to say, as all the trade knows that cult to say, as all the trade knows that
bran can be sold on spot at $\$ 23.50$ per ton. Shorts, instead of being dearer than
bran, as has hitherto always bean the bran, as has hitherto always beon the
situation in Canada, is now aotually
cheaper; stin, can be sold at? cheaper; stin,
per ton, on spot. Millers' prices are persibly for future delivery. Oertainly
they would not guarantee delivery at the they would not guarantee delivery at the
figures mentioned. Flour if ondy in fati thgures mentioned.
supply. The demand is not very in titive, however, so that priees remain steviy, at
$\$ 4$ per bbl., in bags, for Manitobe strong baker
Hay Hay.- The market for hay is quoted a
shade easier, particularly th shade easier, particularly on the lower
gradee. No. i timothy ie still $\$ 18$ to
$\$ 13.50$ per ton. But $\$ 13.50$ per ton. But Ne. 2 is $\$ 11.50$ to s12, and clover, $\$ 10,50$ to s11.
local price is still above the export. Hayseed. -Dlealers report an almost un-
changed condition of aftirs. changed condition of affairs. Holders say
they will commenoe to thinke of selling.
about the middle of March. Dealers. aro trying to get them to move a little earlier, and are offering 25c. more, at
$\$ 1.50$ to $\$ 2.25$ per bush, of 48 bbs, red so to $\$ 6.50$ per bush. of 60 , and alsike, The tone of red clover is easter. Hides, Tallow and Wool.-This market shows very Hittle change. Hidee are duller than ever, there being extremely Dealers are offering, here, 9ic. port 1b. to No. ${ }^{3}$ beef hides, 10 jc . for No. 2, anc
11 j . for No. 1. Salee aro boing miade to 11 kc . for No. 1. Sales are being made to
tanners at tc. advance. Sheep and lamt skins, 95c. to $\$ 1$ each; No. 1 aall akins, 12c. per 1b., and No. 2, 10 c . per 1b, paid
to shippers. Horse hides, $\$ 2.25$ eaoh, for No. 1, and $\$ 1.75$ for No. 2 . Tallow is yuoted at 1 ic. to 8 c . per 1 bb ., for rough.
and 5c, to $5 \ddagger \mathrm{c}$. for rendered. Wool ie unchanged at last week's prices.

## cosetr.

Mr. Wm. Meharey, Ruesell, Ont., adver-
tisea that. on April 2nd, at Ottawa, he will sell, at auction 20 imported Olydee dale fillies, two to four years old, per sonaily selected for size, quality and
breedling, sired by Baron's Pride and his
beet sons, and other notid best sons, and other noted alres. See
the advertisement, and note the date and
$\qquad$
Messra. John W. MeCFarlane and W. H Ford, of Dutton, Ont., breeders of Short derk, red buth to recent sale of a nice
the very
Protector,
wintering Protector,
wintering
Southdow

The Scottish Farmer, of February Snd, speaks in highly complimentary terms of
the new importation of Clydesdate fillies and stallions shipped from CliasKow the week before last by Mesers.
Innes, Schafer and McClary, of Woodstock, Ont., and which are to be of Wood by auction at the Caistor House in that town, on Friday. March 8th. The allies and
mares are two to five years old, some nares are two to five years old, some
show mares, some fin foal, nearly all long-pedigreed, and sired loal, nearly all such noted
horses as the Darnley-bred Carh Dot horses as the Darnley-bred Carthuslan the $1, G 00-$ guinea Montrave Mar; the big
cart horse, Prince of cart horse, Prince of Johnstom; the
Haron's Pride horse, Dunure Coste, the noted prize horse, Prince of Mastle, the unbeaten Cawdor-Cup champion, Prince of Carruchan ; the renowned Labori, a so
of the champion the champion Hiawather, and the the fillies Royal Chattan. Fourteen. year-oldss and halle a dozend or 11 two
our- and five-year-olds, the bulk of are Cur- and five-year-olds, the bur more are
very thick, weighty animals, with of thality
o match.

 and


THE EDUCATIOM OF THE FARM. ER'S DAUGHTER.
The following are the concluding essays upon this topic. $\begin{gathered}\text { Have any } \\ \text { Ho our readers anything to say in }\end{gathered}$ of our readers anything to say in
regard to any phase of our educational system ? If so, we will gladly
make room for a few comments :

ESSSAY 11 .
That " mother's influence " is perhaps the strongest factor in forming will dispute. A child is largely what its mother is, so therefore this discussion has a much deeper and first glance. The girls of to-day are the mothers of to-morrow; consequently, if their education be neglected, the succeeding generation wil
suffer as a direct result. To a considerable prop
farmers' daughters of to-day the fol lowing conditions will apply : Public school for six, or seven years, and
then work at home. Latbor is scarce and wages high, so as soon as they reach the age of usefulness in the
home they are taken out of school. home they are taken out of school.
It is a deplorable condition for many reasons. Such children enter life with a heavy handica)
Unless the love of knowledge and
taste for good literature is acquired taste for good literature is acquired
in school days, the chances are it never will be, as there is so little time or desire when the working life begins. The outlook for life of such
a one must of necessity be very a one must of necessity be very
limited, and, as a result, we have narrow-minded people. Then, as I
stated before, the children of such stated before, the children of such
people have the effects to contend people have the effects to contend
with. How reeble and childish are the
thoughts and actions of those who have no love for the pure in litera-
ture. For those who have been thus unfortunate, there is a cure, slow but certain. Tersely expressed, it is
this: Spare moments well applied. this: Spare moments well applied. cation may he obtained by spending spare moments in reading and study in literature of first quality. As
someone has said, " The equivalent someone has said, "The equivalent
of a college education may be obof a college education and, for their
tained by, reading,' ane ake the fact encouragement, some take the fact
that "many of the great leaders in the world's, history were self-edu-
cated." the greater percentage of farmers to-day can afford both time and money to educate their children, and the question to answer is, "How not away from it." Some people are never satisfied to live on a farm, and to such I would say, the sooner
off of it, the better for yourself and off of it, the better for yourself and
all those you have any influence over, for discontent is a wonderful hing to spread.
With the pioneer days past, and
are, life on the farm to a healthy-minded girl. Now, a course of study that should help a farmer's daughter in her work and give her a healthy mind might
be outlined as follows. be outlined as follows: Public for a couple of years, in which time a desire for good literature should be formed and the mind broaidened by the general studies, as well as by
meeting others and exchanging ideas Then a year or two could profitably be spent at home learning the prac tical in farm life. If the home b
pleasant and the girl's strength not pleasant and the girl's strength not
overtaxed, she will probably see the advantages of the farm as a home ard profession; but if you yourself
sneer at farming as a calling sneer at farming as a calling, and make a drudge of her, then thank portunity presents.
After a year or two at home she will know whether or not she is go
ing to stay on the farm; then course, as given at the Macdonald Institute, or some other practical school of the same nature, would be a boon indeed. It is needless to
enumerate here the advantages of such a course.
By all means have music also as one of the studies. It can be studies, and is a pleasure and recrea tion at the same time, and its enlivening effect on the home life is A girl th
ready to make the most of life on the farm-the course at the institute teaching her the why and how of her work, and the other studies giv-
ing her a mind rich in "the best ing her a mind rich in the best
that has been said and thought in
the world," the taste for which the world," the taste for which
makes life fruitful, no matter how full of toil.

As a furmer's daughter, I should question open for discussion the ". The Education of Farmers' DaughIf," as we believe, the future welfare of our country depends greatly upon the girls of to-day, it is very es-
sential that the girls be trained educated in such a way that they will be best fitted to fill the voca-tion-that of wife and mother-which God intended they should fill. Which
Keeping this end in view. I Keeping this end in view, I think every daughter has a pullic-school
education, and, if at all possible, a education, and, if at all possible, a
High-school education as well. Too many fathers and mothers have the
idea that a High-school education is
necessary necessary only to the girl who wishes
to teach or parn her own living. Under these circumstances, it is little ed with farm liie (One father, I
know, was airaid to let his boy at-
tend the o d tend the O. A. (ior fear he would
become dissatistiond with the old farm. I think the way to keep boys
and girls on the iurm is to educate
them: ion. though education does them; ion. though education does acquiring the lattor the boy or girl
is bound to beco be broad and liberal minded, and one who is that cannot
help but ane the help but see the superiority of coun-
be a true helpmeet to her hud she must be able to understand and appreciate the things which interest him ( 1 am taking for granted the After she has received the education possible for her to attain at the pubby her mother to cook and bake, and do the hundred things necessary that a girl should know how to do, and
has been given as good a musical has been given as good a musical
education as it is possible for her parents to give her, I think it very boneficial for her to take a course at the Macdonald Institute, if only a
three months' term. The advantages of this college course do not consist alone in the course of studies marked on the curriculum. Every girl who attends, in coming in con-
tact with other girls of the college, and being thrown, to a great extent, upon her own responsibility, receives very essential part of her educa-
ion. To the father who this too expensive, let me ask, "Is not the exafest and best way of investing money investing it in one's
own children?", own children?" MARGARET ALBRIGHT. Lincoln Co., Ont.

## ESSAY V <br> The first essential is a liberal education. This would mean a thor-

 branches, and in all the different branches, and should be such as todevelop the thinking and reasoning powers, and teach that work is
orable and idleness degrading
(2) The care of the body, for is
this not the temple of the Lord, this not the temple of the Lord,
which may be kept pure by daily communion with God. The necessity of abundance of pure air and sunshine, and strict attention to the
bath and toilet; also bath and toilet; also proper exer-
cises, in order to develop a healthy cises, in order to develop a healthy
hody and sound mind, should be laught. Cheerfulness; if we are cheerful and contented, all nature smiles
with us, the air seems more and home happier.
Housekeeping and homemaking ar two of the highest homemaking are woman's life. These would require of domestic economy, including sanitation and ventilation, and the hy-
gienic values of food, fuel and clothing, and what a balanced ration
should be for a growing boy or girl Should the for a growing boy or girl;
also the preparing, cooking and
serving of foods, that they may serving of foods, that they may be
rendered more nutritious and ap-
petizing. Then there is home nursing, such as of a fractured limb, or
scalds, burns, sprains or frostbite,
or any slight emergency. in Young women should be encouraged in the use of needles, sewing, knit-
ting, darning, also to understand
the proper care of milk the proper care of milk, and how to
make first-class butter. Recreation
is alwass necessary to wonranhood,
I do not mean to say that a founded should learn nothing except what she
will require as a housekeper. all means encourage reading goord
books, magazines and news


cessiul agencie. to interest our girls on the farm. There are the care o poultry and gardening, and the prop-
er handling of the honeybee to make it profitable. The list is almost endless ; but the hope of our country is the home, and the most important actor in the home is its women, for
it is " the hand that rocks the cradie that rules the world". GRANDMA
Hastıngs Co., Ont
ESSAY Vi.
The modern farmer's daughter
should, to begin with, acquire the same education as would be the sary to fill any other position calling. She should study the beautiful and artistic as well as the practical part of housekeeping. I donald Institute. She must not overlook music, as no girl's educa-
tion is complete without should be well versed in a few She simple home remedies to he used the the case of illness, and, therefore, be a sort of nurse and housekeeper combined. Through such a medium as keep herself posted in the science of farming in all its details, so she may be an adviser as well as a helper. In order that she may converse in know how to treat freely, in a liter ary way, all matters which have to do with politics, industry, philosophy, sciew how, in cases she must als do a few of the more material dutio in connection with the farm, such as milk a cow or hitch up a horse. Such a girl's elegance or refinement from long as she evinces a proper grace The farmer's connection with it. vate a cheerful disposition, and cult her ambitious nature, show that she is aiming at all that is noble, pure is the connecting. to a great extent is the connecting link between the
armer and the social world important, therefore, that she be zealous helper in all things that tend to benefit her fellow creatures, espe
cially in church and Sunday-scho cially in church and Sunday-school
work, for, after all, what sociability is there to equal that of a good and an influence in the home Whith such will be loath to leave the farm for the more-might I say? -dazzling do
ly, yet there seems, something contra
dictory alout it."

Wordsworth did not write this line to stand out in painful prominence puem; he wrote it because he knew he poem as Wordsworth saw a beautiful, When kissed sea, a scene of rest and peace, and quipees soul-thrilled joy, he told
about it just as he saw it. on the other hand, he saw that sea, tempest-tossed in the fury of an awiul storm, and knew a sorrow, the
memory of which would endure ong as life itself, he did not smite alk cheerfully, say manly, noble things, and act as though no such a
thing as sorrow ever existed. He told us about that sorrow just ex
actly as it was, and then calmly conquered it, in the words, "Welcome fortitude and patient cheer, and fre-
quent sights of what is quent sights of what is to be borne
......Not without hope we suffer and we mourn." Wordsworth said, "The
feeling of my loss will ne'er be old' feeling of my loss will ne'er be old",
because he knew it was true, and because he knew
who, as he rises to the overcoming
of his of his sorrow by the divine hope ex-
pressed in the last stanza; which follows, may say he was in any sense morbid or weak, or deteriorated any from the value of the poem
by expressing his sorrow just as he
did? No ; God allows us to have sorrow just as well as he gives us joy, and the idea is not to laugh shough it were not a fact at all. If a person's very heart is aching and breaking, as "Sed" says, why
should he pretend that it isn't so ? should he pretend that it isn't so ?
He shouldn't pretend so, but he
should stay by his aching, breaking heart till God shows him that though for all sorrow is very real, yet "earth has no sorrow that orth and be cheerful and happy, and ope and conquer again. I am glad Wordsworth used these words; the nothing else, demands their use, if poet made no mistake here. His
argument is beautiful, powerful and argument is beautiful, powerful and
sound. The plain, simple words breathe a music that is plaintive and tender and sweet. The construction, rhetorically or logically, with the exeption of the iine, "That which I know I speak with mind serene," is whether logically so or not The poem is all right. One mightier
than we are didn't pass sorrow by than we are didn't pass, sorrow by
unnoticed. "He wept." We had better be conscious of sorrow, treat
it as a fact, conquer it conquer us, no matter how smiling cheerful, manly and noble we try to be. Wordsworth isn't contradictory
here ; he is simply true to himself

OUR ENGLISH LETTER What one reads about I think in a previous article I sent
you some quotations from a in the spectator, headed, "" Coloniza
tion by Wome tion by Women : An Imperial Ques tion." Since then I have noted,
from time to time, frequent allusions, not so much to the matrimonial as pect of the subject-one is thankful
ior that-but upon the power of women in colonial life ing
more ways then cre ways than one. For instance
clipped the following from the Bris tol Tinnes and Mirror, a paper largely circulated throughout the south
of England, from whence of England, from whence comes many
a sturdy son of Britain to help
people our glorious Dominion. It is headed "Woman's Power, and Ways Which She can Heip the Empire
Id is written by an Englishman re
siding in Clanada Sacts and Canada. After giving
facts ares to prove his con-
tention the tention that Canada is doing more
travice per head, in proportion to her popplation, than the United States,
and that the enormous influx of
Am, Am that the enormous influx of
great settlers, tempted by the great opportunities of the Dominion,
shour not he without its danger
sign sign for those whose rightful herit-
age come to share, he brings his
and practic down to a very simple fluence anly women would use their in and friends to keep within relations pire and never desert the old flagsome good would be done. I mysel
went to the States, went to the States, and was not long feeling, and the Yankees told they would actually have Canada me fore long. This sort of talk doe lishman, and I was only the an Engonce more get on British soil amongst people who are one with
you in your you in your loyalty, aspirations our coloniai trade, want to develop
colonial products, wnd demand
foreignt buy any foreign stuff that is first put up be". Why help to make foreign na tions powerful and strong, and hereign ha-
them indirectly to them indirectly to keep great armies and build big navies in preference to supporting our own kinsmen in our
own colonies? I ask this of British women because they are, in British more powerful than they imality, The husbands work, but much of the money is spent by the women, and
ii only people would shun absolutel these " made in Germany" goods
there would there would be less unemployed in the Old Country to-day. In Gerployy the percentage of the unem-one-third of the percentage is 1.6 , or eluployed in England. If, instead of buying Quaker oats made in the United States of America, you deborough, Ontario, Canada, you would be helping to develop the latter country and find work for your own out American Cauaker oats siff keeps oats we eat are made in Canada. the " Finally, the work of consolidation and development of our colonies
is of the utmost importencer time has come when the British. The man must put her foot down, and make a determination to buy only goods made in this Empire-capable women of England will do this, we shall see that they are patriotic and that there is some grit in them, and thus they will, in some measure will draw all men unto them. and
Believe in your Empire, stand firm, be united, and work for the welfare o your own kith and kin. Other
people are capable of looking after
themselves,"
tending emigrants is given by of intending emigrants is given by "A
Bristolian in Canada," who fills a
column in column in a very large paper with by telling his readers that it is now seven months since he left them to our vast Emitizen of a portion of of the British possessions-Canada." so prevalent in the Old Clion which is Canada is a land of perpetual ice and snow. It might be so, he says, thousands of miles further north, tells, "during the past summer," he fall I saw grapes and tomatoes ripen ing off in the open, and fine fruit coo; and the gardens were full of corn, kidney and celery, sweet onions, rhubarb, vegetable marrows pumpkins, strawberries, apples and pears." No mean list, to which
others might be added. Then lows, with emphasis : " One thing desire to impress very strongly upon your readers, and that is, when plaining because this forever com is not the same as in Englang Settle down and be content, and take things as they are. Don't be conthese : ' I did not such sentences as would have been like this,' ' I wish I had never come,' 'I shall go back,' etc. For, as sure as fate, if you
persist in this course youn settle and be happy. When will never is in Rome, he must do as Romen does. Canada is not England. Rome new country is not like an old one.
Canadians will help you in possible way to soothe the parting from friends and relations; but if you are grumblers you will lose their friendship. As a rule, the Canadian
motto is. Help one another.? Es. pecially is this applicabler.' Es-arrivals-deserving parties. As sown as the latter are 'fixed up,' they are
expected to do likewise. expected to do likewise. Long may great Empire ! Persons coming our
this country must able to look after themselves no use for anybody to comes. It is
down in his down in his chair, and expect em-
ployers to run ployers to run after hhim expect em-
want assistance. want assistance. There is plenty
of work here, however, for men men, boys and girls who mere, wo afraid of work, want to work, and
will work-at extrem will work-at extremely high wages, too. A large number come over,
with and without trades, and, failing
with and without trades, and, failing
right what they want and can do right away, go back again, saying they have been deceived, thereby giv-
ing our vast Dominion a name which ing our vast Dominion a name which everyone, immediately on landing, to buy a daily paper, and read the columns of vacant situations, and act
accordingly." All of which I think you will allow is good common sense, and proves that the writer is just the class of Englishman Canada In the Home Notes
lar little weekly magazine very popudently in answer to arine, and eviadvice, I found the following a few days ago: "Yes, useful women of "home helps "in Cane required as ish Columbia, and refinement is and Britobstacle if it is the reat thing and not, what is so often mistaken for of work which may soil the fingers and a hankering after the amuse ments of town. A girl brought up in a refined country home, who has of domestic work, would be sorts yelcomed in scores of colonial house holds, and I advise you and your than struggle for office wark in rather
don." crux of the whole matter, as touching the problem of lady-help the "refinement "in being "llusion to thing or not." Those who real neither ladies nor helps had far bet-- In proof of the fact that
much clearer understanding than heretofore of the qualifications than essury to make a successful settler in daily paper had to what a London caption of " Wool wich Men for Cunadia," who are pnobably already Hundreds of disch from the Royal Arsenal are lemployees Woolwich to make a fresh are leaving the New Year in Canade. They will which the newly-constituted Cemigrants Emigration Board hopes to transport during the year. On board the Empress of India, the first batch of carefully-selected, suitable candidates tions awaiting them on to situafarms. All these emigrants are ablebodied and anxious to work at ablehad to answer satisfacto they have had to answer satisfactorily a com-


## THE FARMER'S ADVOCATE.

## against the cold

Peter stood and warmed himself.
The very Christ for whom he bore
Such brave, bold witness, but Such brave, bold witness, but a few
Brief days agone-the Christ he knew Had raised from death one week before His friend at Bethany-he saw
Now in the clutch Now in the clutch of Roman law,
Reproached, dishonored, Dragged rudely o'er the pavement ston And-stood and warmeed himself !
He watched the jeering soldiers strip Away the robe the Marys made,
Tear off the inner garment frayed By brutal wrenchings; marked the Quiver, as o'er the desh made bare
Blew gusts of chilling midnight Yet by the sight not stricken dead, Above the brazier's coals he spread
Uis hands-and warmed himeolf Uis hands-and warmed himself
He heard a maid say, " Here, behold One of this man's discipless: see,
He speaks the speech of Galilee. Ah then-ah then his blood ran cold And as the leaping flame rose higher
Amid the crowd that girt the fire With sharp, reiterate, angry "Nay He thrust his arms, and pressed
way,
"Yea, thou art one of them," "-he hear The charge come back and back again, Tossed from the mouth of mocking men
And as with oaths he flung the word Straight in their teeth, he sudden turnedAnd oh, that look! It burned and
As if Gehenna's hottest coal Had down into his central soul
Dropped, while he warmed hims His hands he could no more uphold, Ren hands he could no more uphold,
Remorse, despair, self-loathing, woe,
clutched at his heart: he did not kno If it were night, - if it were cold He cast no gaze behind, before,
Nor cared that she who kept th Said, "Surely this was he who drew The sword on Marchus, -Malchus knew,
rhe while he warmed himself !

Remorseful on the ground he lay,
So sunk in self-abhorrent shame He dared not breathe the Master's name
Recounting, till the Recounting, till the break of day,
How through that mystic anguish He had not spoken a word for Him, Forsaken in the bigh-priest's hall. But midst the mocking, watched it all,
4o to we sthl we whill thai
With scarce the scoffed-at Christ in sight Nor dare the wrong, nor brave the right
Poor, cowardly cravens that we are Poor, cowardly cravens that we are!
And while we see our Lond betrayed. We linger mid His foes, afraid
To own Him. yit To own Him ; yet like him of old We comfort us against the cold
And stand and warm ourselves


ENDURE HARDNESS
ENDURE HARDNESS:
Thou therefore endure hardness, as a
good suldier of Jesus Christ.-2
Measures have already been taken by school-teachers' associations of Canada for the erection of a monuherocally gave up her life in the Hochelaga school on Feb. 26 th

In the new Transvaal Colony Ministry, General Botha is Premier and
Minister of native affairs. Colonel Smister of native afiairs. Colonel also a general during the war, and was formerly State's Attorney in
the Government of President Kruger.

An interesting feature in the Brit ish naval estimates for the curren of battleships will depend somewhat upon the decisions of the next peace conterence at The Hague. Provided he Conserence does not object, two
or three battleships of the iread or three battleships of type will be built.

Meanwhile thy life by loss instead of
gain :
poured forth !
For love's strength standeth "iu Love's
sacrifice: This is a luxurious age, and we reed to
reuse ourselves to follow St. Paul's

## counsel to the young bishop of Fisphesus

 (1).". "ndurn hardness." Indeed we needForced to endure har

## The Quiet Hour.

## steps of such a Leader, we m

 nared to encounter "hardness." He has set before us no ideal of an easy, comof life that attracts us, then we must choose some other Captain. His orders are that we must not wait, like Simon the Cyrenian, until we are "compelled" to bear the cross, but we must take it up daily. That implies a willingness to endure hardness, for a real cross can never be anything but hard and painful. But At does not mean that a true follower of Christ has a more unhappy life than other peorle-far from it! The mother of a large family may have to endure disturlec nights and busy days; but no willingly change places with name would whose house is in inces with the woman and who has is perfect order always and who has no little disturbers of the should grumble at her hard lot, and God should step in and take away the troublesome children, bow much greater would Did you ever word endurbear to seek comfort for himself per could Master he loved was enduring insulte the facing a death of awful agony? Can you imagine a loving mother trying to make herself comfortable while her child was tria! for his life? I onoe knew a widow who cried bitterly because, as she said while my sleeping comfortably all night I had known. If I could not be there to comfort him I could have stayed awake." Some pecple might think that, as it was impossible for her to go to him, it was nuch more sensible to get a good night's
rest. But was it? The wifely instinct made her feel that to sleep in easy com-
tort while her dear husband was suffering fort while her dear husband was suffering the agony of death was failure in loyalty
and
faithfulness-as it would certainly and faithfulness-as it would certainly
have been if she had known. Our Lord
did not think the did not think the three chosen disciples were doing a sensible thing when they
slept during His acony in indes slept during His agony in Gethsemane.
There is a beautiful little story whioh de There is a beautiful little story which
scribes how Lazarus and his sisters ke faithful watch all through that night suspense-at a distance from their Master
but with Him in spirit. It is but with Him in spirit. It is a true in-
stinct which keeps a loving heart from wanting to be very luxurious when loved one is vuffering. It is a ver
astonishing thing that astonishing thing that so many Christians
should change Good Friday from should change Good. Friday from a holy-
day to a holiday. Surely on that one day at a holvalay. Surely on that one
das, at least, we should fix our thoughts
as as possible on our as far as possible on our Lord's sufferings and death. And if our hearts are with
Him through the agony and can hardly bear to turn our shacks on wo Cross, and go away to seek our own
pleasure or amusement. pleasure or amusement.
But it is not only that we should deliberately ohoose the "endure hardness" as good soldiers
Christ. I cortainly don't think it woul
be a be a good thing for us to become ascetics and torture our bodies in the
hope of perfecting our souls. But a life
of luxury and soft ease is an opposite exof luxury and soft ease is an opposite ex
treme, which injures body, mind and
spirit: and. sacrifice; $\quad \begin{aligned} & \text { is always enervating-we want to and luxury } \\ & \text { strong and }\end{aligned}$ And whoso suffers most has mest to and need both physical and spiritual soul,
give." inclined to shirk any disagreeable or har duty, putting it off as long as aseable or hard
or, persible or, perhaps, even trying to shift possible,
especially unpleasant burden shoulders of someasane burden to the
a hrave determination to en us mak.
 and then look round for endure hardness, There was the battle waged, the victory
"hich we know needo which we mirgt-it we were done, but
coldiurs of Jesus Christ-leave for goonl
 There urs plenty person to look after
Tand, not only for bertunities closer an tand, not only for orpertunities close at
thens hing our own hur
thovely, but also for lightening
ther, which will make the " chores
people around us less heavy. To "endure" hardness does not that we are to grumble and complain Real endurance of the small troulles. and trifling annoyances of everyday life is as rare as it is beautiful. The "ha ress" generally comes to us, whether we o get out of its way, but we have ways the chance to " endure " the agreeable or painful things bravely
cheerily. There is the cheerily. There is the opportunity
victory lying close beside our the time. Of course if we don't dure "-simply submitting to more encape-we shall grow weat as the years roll or and $C$ be too awkward and undrilled to stand up successfully and fight when some grean temptation has to met. Now is our a reserve force laying up a store of strength
against some sudd strain. Some day great results may hinge on our swiftness to obey a sudder selves to obey His we training our promptly every day? If we are forming habits of dilatory, unready obedience-i that sort of unsoldierly conduct may be surprised to find that the strong ber of habit will hold us back when every Ching depends on instant action. If we neglect our daily morning and evening
prayers, or are too lazy to nead Bibles. we shall find, when it is to our that we have been, by slow and imper ceptible degrees, weakening ourselves. knd we all want to be strong and
brave. When we read of deeds of nobl hrave. When we read of deeds of noble
heroism we are fired with the desire erulate then. It is wasy to dream en. thusiastic dreams about the beauty and llory of martyrdom, but our readiness or heroic self-sacrifice is always tested in everyday life. If we, in actual fact, rease to sacrifice time, money, strength or nything else, we may have to give-right
here amd now-then we are never likely lay down our lives grandly in the the dim
giture

Blessed are those who die for God lightgreater conqueror in His sight

## Hope

## HE BATTLEFIELD

assert place where grew no kindly waste of sand where splintered rocks
lay dead, Where rivulets thowed not, nor flowers swayed-
nd smiting
o'erhead. rays fell from the sun

One lorely figure robed in ashen gray,
Whose patient eyee hose patient eyes saw nothing, seein Nor marked the shadows' slow-revolving The flush of dawn. the purple

There rode no hosts led on by warric No trumpets sang ; there trumpets sang; there waved n
banners gay;
No fierce assaults nor routed treats.
tssaults nor routed quick ro But silent hours wore out the night
$\qquad$greatness, glury poweII greatness, glary, power, and all la"
Forener fixed, the empery of
stood-guide where arges met the parting ways
gut guide aright whoever seeks the light
shame frons wrong with level loving

About the House.
REPLACING THE FRUIT It this time of the year the canned in quantity, and it becomes necessary either to save it in some way by
substituting, or to refill some of the gem jars. In doing this, the
ing recipes may prove useful: syrup is scalding-hot, put in firm,
tart apples, peeled and quartered,
and cook very gently until tender and cook very gently until tender,
but not broken. Remove with a
skimmer. Boil the syrup until it skimmer. Boil the syrup until it and 6 lemons, and wash well. Slice very thin, removing all the seeds.
Let them stand in 1 gallon water 36 hours, then hoil gently two hours.
Add it pounds granuiated sugar and Add 10 pounds granulated sugar and
cook one hour longer. Put in jelly glasses or pint jars.
and remove seeds. Lay the sliced fruit for 12 hours, or over night, in 6 or
7 quarts of water, and boil gently for two hours. Let stand till next nex
day, then weigh it; add an equal weight of sugar for each pound of pulp, and boil all together till clear
and beginning to set. Put in glass es and tie down while hot.
English Marmalade.-Seven oranges English Marmalade- - Seven oranges in very fine chips, taking out seeds.
Pour over pulp 3 quarts cold water; our over pulp 3 quarts cold water;
et stand 24 hours. Boil 1 hour let stand till next day; add 9 lbs,
white sugar, and boil till chips are
clear and lear and syrup jellies.
To Cook Dried Fruit of Any Kind -prunes, peaches, apricots, figs, etc.
Wash well and soak about 12 hours

## With the Flowers.

## SOME DAINTY FLOWERS FOR NEXT

 SUMMER'S GARDEN.| Last issue we promised a considera- tion of soine of the more dainty kinds of garden flowers. First on the list will be placed, probably, by a great many people, the sweet pea. The leaves and vines are not, perhaps, especially attractive, yet, when the blossoms come out, fluttering like crimson butterflies along the border, and whitling their faint, sweet perfume all over the garden, one surely feels that the time expended upon the sweet-pea division has been well rewarded. Moreover, there is nothing prettier for a table bouquet than a bunch of sweet peas, loosely bunched together in a clear glass vase or rose-bowl. The colors never seem to clash, no matter how many are put together; in fact, when planting sweet peas, a "mixture" is usually found to be much prettier and more artistic than a more symwhite here, one of crimson adjoining, <br> $\left.{ }^{1}\right)_{0}$ not wait until the weather is before planting sweet peas. trench 8 to 12 inches deep soon as the frost is out of und and plant the seed, coverightly, but firming the soil well. If the soil is not very and rich, it may be well to some very old, well-rotted at the bottom of the trench. hy little. When the weather dry watering will be necesout care must be taken to soak right down to the roots; the vines require it, be sure to as anything. boutry wire is as branches placed upright in the will do Shallow cultivation |
| :---: |

over the soaked fruit, and let simmerer
very gently notil tender; prunes will
require a about two hours. Let cool
araduen
require about two hours. Let cool
gradually Dried fruit cooked this
way should he soft plump way should he soft, plump and ap-
petizing. Lemon or orange peel, or
sliced lemou or orange, may be added if liked. Fig Preserve.-To 1 pint chopped
figs add 1 cup water, 2 slices lemon figs add 1 cup water, 2 slices lemon,
a pinch cinnamon and clove. Let
simmer until soft. rice or cornstarch.
Lemon Butter.-One pound white
sugar, add sugar, add \& pound butter, yolks of
six eggs and whites of 4 , juice of lemons and grated rind of 2 . Let ring all the time, until it looks like
honey. Keep in a cool place, and use for tarts,
starch pudding.
Cider Apple
boiled cider, $\frac{1}{3} \begin{gathered}\text { Butter.--One gallon } \\ \text { bushel tart, }\end{gathered}$ apples. Boil down cider to one-
half quantity in a porcelain kettle. Quarter the apples, pare and core
them, setting skins and core to make jelly from. Cut the apples ing cider, putting in as many at soft, skim them out and add more until all are cooked, then mash fine and put back into the cider. Cook very slowly until thick, stirring fre-
quently, as it burns easily. You may quently, as it burns easily. You may
put in orange or lemon with grated
rind, or any kind of Hlavoring. SOME SEASONABLE RECIPES. ${ }_{1}$ Southern Sint oi blended Corn Bread.-Mix wheat flour in the proportion of and 3 eggs light and whip int four. Beat 3 eggs light and whip into them 1
tablespoon sugar. Then add butter size of an egg, softened but not Size of an egg, softened but not
melted, and one pint sweet milk.
Stir this mixture gradually in

serve the moisture, and a little hard-
wood ashes worked in from time to wood ashes worked in from time to
time will be beneficial. Sweet peas do best in a good loam, well enriched
with old corv manure or thoroughly-
deced decayed chip-mould.
Another never-failing favorite is the Another never-failing favorite is the
pansy-a flower that seems to work its way, somehow, into the heart of the flower-lover. Almost a pity, it would seem, that it has lost its quaint old name, Heartsease, for the wrigh of cheer as almost speak diant alike in rain or sunshine. The best plan is to sow pansy seed in August, and protect the plants durhouse in February or early March will often yield an abundance of clay soil during the late summer. clay soil, well enriched with very
old, well-rotted manure a old, well-rotted manure, a position
sheltered from high winds and ex posed to the morning sun, and frequent sprinkling to keep the soil moist, are the conditions of the
greatest success in pansy-growing. greatest success in pansy-growing.
One cannot have the pansy without mentioning its cousin, the English
violet, whose sweet perfume lends such a charm to any perfume lends
out a few roots this spring in the out a few roots this spring in the
moistest, shadiest part of your garden, pay no more attention to them, and in a dew years you will marvel
to see how the little plants will have pushed themselves into spare corners
and out ainong the grass, never arg gressive, never staying where they-
are not wanted, like some less sensi-
tive plants, but modestly giving way are not wanted, like some less sensi-
tive plants, but noodestly giving way
before the spade that would make before the spade that would make
room for more showy neighbors. room for more showy neighbors.
One of the very daintiest plants
that can be in any garden is the Gypsophila, or " Baby Breath." This plant is not especially showy when is quite effective, reminding one a
very little of the feathery meadow-
rue of the swamps. Its chief value
is, however, for mixing with other is, however, for mixing with other
Howers for bouquets, as it lends the
grace and daintiness which might
two species of Gypsophila-the Gypso but elegans, rather the prettier, but an annual; and the Gypsophila grow from $1 \frac{1}{2}$ to 2 feet in height, so should be placed in an out-of-therway No dainty garden is of the border out the mignonette, with its faint sweet perfume, different from that of plant, like the beautiful, fragile Shirley poppy, does not bear transmens for early well, yet a few speciin the house, provided the utmost care is taken in transplanting, enough soil, being removed to ensure that the roots are not disturbed in any way. May, and again in June, will provide a succession of bloom through the summer. Mignonette needs a cool, rich soil. If the white callbage butterfly attacks it, sprinkle lightly with Fhite hellebore.
Forget-me-not-one of the very daintiest of our fowers-needs a good
rich soil and plenty of moisture. Its pale-blue blossoms are especially attractive when mingled with white Lily-of-the-valley. Those who are flowers will do well to get a few seeds of the fragile blue garden $L_{0}$ -
belia, which comes into than the Forget-me-not. Since abundance of white is necessary in any garden, hy all means
have plenty of sweet alyssum. Its have plenty of sweet alyssum. Its
tiny blossoms are not especially striktiny blossoms are not especially strik-
ing when isolated, but when massed
or in or in borders are very effective, formin all thei bloom that will rena in all their beauty for weeks. Alyshare spaces between taller plants
that inight otherwise be unsightly The dwarf variety is especially good
for edgings. Any good rich soil,
and almost any situation and almost any situation will suit
Has it ever occurred 1o. you that

Substitute for Pumpkin Pies.-Boil carrots till tender in salted water, drain well, and use as you would pumpkin.
Spiced Liver.-Split a calf's liver and parboil. Scoop out centers mince this, and add to it one onio pepper, and some breadcrumbs. Re fill the cavities, sew the edges of the liver together, put in pan and bake baking,
Herring Salad.-Flake boiled her ring; mix with it some chopped cold, boiled potato, minced onion, a
hard-boiled egg and minced pickled hard-boiled egg and minced pickled
cucumber. Dress with hot vinegar cucumber. a little butter ha
melted. Let cool and serve. melted. Let cool and serve.
Muffins.-Dissolve $\frac{1}{3}$ yeast calke in
$\frac{1}{2}$ cup warm milk; add pinch salt, 2 $\frac{1}{4}$ cup warm milk, add pinch salt,
cups lukewarm milk, $\frac{1}{2}$ cup sugar, cups lukewarm milk, $\frac{1}{\frac{1}{2}}$ cup sugar,
tablespoon butter, 1 egg, and flour to make a butter, egg, and nixht, at night,
and bake in muffin rings or deep and bake in muffin
pattypans in morning.
pattypans in morning.
Baked Bean Croguettes.-Press cold Baked Bean Croquettes.- Press cold
beans through a ricer, or mash them. beans through a ricer, or mash them.
To each pint add two tablespoons tomato sauce and a teaspoon of
grated horse-radish. Shape into grated horse-radish. Shape into crumbs, and fry. Serve hot. bread-
Buttermilk Bread.-For three loaves use 1 quart sour buttermilk, 1 large tablespoon sugar, 1 teaspoon soda, and 2! quarts flour. Heat buttermilk to boiling-point, stirring fre quently. and pour the hot inilk mixingNow gradually sift into this 1 quart flour, stirring well. Benit, cover, and
let stand in a warn room over night. In the morning dissolve soda in in tablespoons water, and add to the batter with the salt and butter
melted. Beat well, then beat in the remainder of the four, reserving half a cuprul for kneading. Knead 15 or
20 minutes, shape into loaves, and
put into the oven put into the oven immediately. Bake
one hour in a hot oven.
must be so, else how account for the
never-flagging popularity of this
dear old Hower of our grandmothers gardens? In buying corn-fiower seed, it is seldom wise to send for a " mixed "" packet, which is nearly purple varietain a fo lew seeds of the with all the other flowers in it it neighborhood. Centaurea Margar itw, a beautiful white varlety, Ceri-
taurea Americana Alba, also almost white, and Centaurea. Imperialis, perennial, are, perhaps, the host
satisfactory species. satisfactory species. PROVIDING FOR SUCCESSION OF In a country so extensive and o such varying elimates as anada, it time at which any flower may open The following list may, however, be found approximate enough to be of To provide for bloom from April sus, Deffodils June.-Crocus, Narcissus, Dafiodils, Rock Cress, English valley, Tulips, Bleeding-heart Lilthe Columbines, Forgeting-heart, Irls,
tiont, Helio-
 Poppy. Shrubs: Foonsythia, Spiresa $\mathrm{C}_{\mathrm{c}} \mathrm{hergy}$, Honeysuckle, Plum and Quince, Smoke-tresuckle, Jowering Almond,' Spirrea Van Houtii, Snowball, Lilacs, Syringa, Siberian Currant,
Midsummer to end of August
riot of bloom : Sweet of August.-A
tiums, Nasturtiums, Zinnias, Salvia, Gladiolus, Marigolds, Phlox, Verbenas, Shirley Shrubs: Altheas. Fall-flowering Stocks, F a 11 Phatox, PDe Ahlia berry Thunbergii,

## PRIMROSE

 me why me pleased if you could tellit appears to brose does not flower; it appears to be in a healthy condi-
tion. The flower seeme to tion. The fower seems to make a

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a flour from which you can make both the best bread and the lightest pastry? There is one obtainable to-day from which you can secure these most desirable results - "Five Roses." Made from the Highest Grade Manitoba Hard Wheat, by processes which render it not only an ideal bread flour, but guarantee " its being equally good for pastry and fancy baking, houseker's which should be in every housekeeper's cuphoard

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them both to start right.
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that'snow every incubator I don't hon this continent. the Peerless has say that beaten a mile as the founda tion for a poultry-for-profit want advice. I wrough se show you just how to make most money quickest.
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Suppose you send Sappose yon send
andway- and send
you wo nothing ain


The Lee-Hodgins C
4 Pembroks street, Pembr
year old. Also a primula does not
flower. Any suggestion will be
thankiully received. thankiully received. MRS. J. R. P.
Grey Co., Ont.
Ans. -There wrong with the conditions of growth or your primrose would flower al
right. I'ossibly you are keeping it in too warm a place; the primrose howers best in a rather cool tem-
perature-from 45 to 60 degrees.
Primese Primroses, when in flower. should b

Children's Corner. be addressed for Children's Corner must tor Ave., Toronto. Otherwise they wil
not be published.]

A SHORT SPIDER STORY
Madam Spider was what you might call An ugly old thing, and her manners were
not pretty, but she understood her own
business, Yousiness, and went steadily about it. bor's dorerstep on a ger gossiping on a neigh-
Nominer morning. No, indeed ! she was too busy keeping
her the ther her pantry filled. There were no shops
out in the field where ser out in the field where she lived, and
Madam Spider had to be her First, she built her house in a nice breezy spot in a wild blackberry bush. There
was was no need to go out to buy bricks.
Madam Spider had only to walk from Madam Spider had only to walk from
one branch to another, and of sianch to another, and a fine thread
of came out of a hole in her body. and there was the foundation of her
house. When she had house. When she had gone across a good
many times, she began to walk round and
round till she many times, she began to walk round and
round, till she had a neat cobweb made,
with a thick spot in the center with a thick spot in the center for mer to
sit under. Then she shut off the supply, and curled herself up of a the silk
rest, and wonder to dinner.
In the meantime, a little fly was sitting
in the sun on the fence, thinking of in the sun on the fence, thinking of the
very same thing. "I believe I sniff a nice
scent of cow over scent of cow over there," said hee." II'll
just fly across the field and see." But
alas for him alas for him! bang he went into Madam
Spider's web. But Spider's web. The damp threads stuck
to his legs, but he kicked hater one loose, and if Madam Spider had boen
out ansiping she would dinner. But the instant the fly struck her
web, up she jumped, web, up she jumped, and was on him in
no time. Pinning him down with her
strong front strong front legs. she let out a witream her silk, and wound it round his legs and clean the stallions besides. They and "ings with her back legs. In legs and slick. My father does a lot of teaming he was all tightly wrapped a up, and
Madam Spider ran swiftly ting-room, and sat down to enjoy him in in
peace. But a terrible peace. Rut a terible danger was swiftly
approaching, and it seemed likely that Approaching, and it seemed likely that
this would be our industrious friend's
last meal. this would be our industrious friend's
last meal.
C. D.

|  | Not Her Fault. |
| :---: | :---: |
|  | day very indignant hem from schoo |
|  | kept in to correct her problems, |
|  | the others had been dismissed, |
|  | nma," she said, "I'll never, never |
|  | Bates again as long as I |
|  | hy, my dear ?" asked her |
|  | ase," pouted the child, "berause |
|  | from hers, and |

fibrous loam rich soil composed fibrous loam, leaf-mould, well-rott smaller pots, they may bec. bound. When the pot has filled with roots, a weekly aplicat of weak liquid manure will be foun beneficial. The primrose primula require the same treatment The primrose really belongs primula family. All of these be kept in a shaded place in summer

## 4. With what must we fill a bar make it lighter ? Ans.-Holes.

 make it lighter? Ans.-Holes.5. What goes up when the rain comes
down? Ans.-An umbrella.
o. What goes upstairs on its head?
Ans.-Shoe nails? - Dust. ELVINA MAR'TIN (age 10). What has neck, but cannot rub What is the most useful letter to deaf old lady? Ans.-A, because it makes
her hear. What is the first thing a man his garden? Ans.-His foot
Around Around the house, around the house. and only one track it leaves? Ans.
Wheelbarrow. Wheelbarrow. is a barrel like a tree?
When bis When blown over. A. A. N. (age 11).

THE LETTER BOX Dear Cousin Dorothy,-We have take best of par now eight years; we like it the two warking teams. I drive have team. We also have two ponies; one pony
raises a colt every year. raises a colt every year. We sold het
suckling colt last week Prince Fragrant colt. for $\$ 85$. It's a stallions, their names are Prince Fragran and Gay Spark, both imported horses.
am a lover of horses Fragrant is my horses . We haveline had
Prince Fragrant Prince Fragrant now three years, and he
has beaten everything in the has beaten everything in the ring yet. He and sweepstakes over all wherever shown, Any person who comes here oan see the
prizes and medals, prizes and medals, and his stock has never been beaten yet. Wherever shown,
they took first, second, third stakes for the best colts on ground. GaySpark we have had one season. He witl
beat Prince Fraud. Gay like he is doing. I do all the chores, and clean the stallions besides. They look
slick. My father does a lot of teaming in the winter, drawing logs.
LFANNDER GOOD (age 15). Greenoch, Ont.
> taken Cousin Dorothy, -We have only
twelve The twelve "The Farmer's Advocate" only
for book in many ways. We it a very a mile and
a quarter from town, and are petting
electric light electric lights in our house. We have ten
pigeons, a rabbit, pigeons, a a rabbit, a chipmonk, a cat,
three cows, pigeons, a rabbit, a chipmonk, a cat,
three cows, and a horse. The fruit garden we own consists of eleven acres, counting
hay field and pasture field. In the orchard, there are two hundred appl
trees and five big patches of strawberries trees and five big peatches of strawberries
of which we got one thousand four
hundred bot hundred boxes last surnmer. I think
have writteh an extra long letter, so
will cotan have writteh an extra long letter, so
will clos now. wishing " The Farmer
idiocat. Adrocate" "Mry success. $\quad$ MILDRED RITCHIE.

Thear Cousin loorothy,-1 thought Riddles
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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 like the in thinking that all linn in Alberte is
being it in the saskatche wan Valley. there
 watered and partilb-wooded banwe in the Ed well
ton district and the open lains found in some
parts of the Province


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## all ! Bringin' a friend with me-eh, eh!, and he stood aside to lot by his agent, Par Parson Leggy, and last of all, shy and blushing a fair-haired

 " "If, lad, wain't David!"" was the ory. yo'm laokin" stout, surely!', And theythronged about the thronged about the boy, shaking him
the thand, and asking bim his story. 'Twas but a simple tale. After his
fight on the eventfel south, drovering. He had written gone Maggie, and been surprised and hurt to and, too proud. to write again, had re, mained ignorant of his father's recovery
neither caring nor dating neither caring nor daring to return.
Then, by mere chanoe, he had Then, by mere chance, he had met the
squire at the York cattle-show; and that kind man, who knew his story, had eased his fears and obtained from him a promis
to return as soon gagement had expired. And ther his on The Dalesmen gathered round the boy,
listeming to his tale, and in return telllisteming to his tale, and in return tell-
ing him the home news, and chaffing him about Maggie. Of all the people present, only one
seemed unmoved, and that was M'Adam. When first David had entered he had ing his thin cheeks ; but no warmnoticed his emotion ; but no one hard again beneath his armor, he watohed the scene, a scur snile playing about his lips. to I think the lad might ha' the grace murder me. Hooiver "'-with a pharacteristic , shrug-" I suppose
able." $I^{\prime} \mathrm{m}$ onraisonable.
Then the gong rang out its summons, and the squire led the way into the great dining-hall. At the one end of the long
table, heavy with all the solid delitable, heavy with all the solid dell-
cacies of such a feast, he took his seat
with the Moster right. At the other end was Parson Leggy. While down the sides the stalwart Dalesmen were arrayed, with
M'Adam a little lost figure in the oenter. M'Adam a little lost figure $i m$ the oenter
At first they talked but little, awed like children : knives put litetle, glawed
tinkled, the carvers tinkled, the carvers had all their work,
only the tiasse only the tongues were at rest. But the
squire's ringing laugh and the parson's sherry tones soon put them at their ease
che and them all, voices rose and waxed.
of He talked to no man, and you may
sure crept oftener to his glass than plate, till dim eyes to grow unnaturally bright. loud tapping on the table, calls for sllence, and men pushed back their chairs
The squire was on his feet to make his annual speech.
IIe started by telling them how glad he was to see them there. He made an
allusion to Owd Bob and the Shepherds' Trophy which was heartily appheaded
He touched on the Black Kille said he had a remedy to propose : that 'h' Owd Un should be set upon the criminal's track-a suggestion which was recelved with enthusiasm, while M'Adam's
cackling laugh could be heard high above the rest.
From that he dwelt upon the existing
condition of agriculture then

restored to ite original color in ten days
when Princoens
Halp Rejuvenator

 PRINCESS DANDRUFF CURE
 paid, trolysis. There is positively no other troed
 Graham Dermatological Institute,

## Iow cannot posalbly hav



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in which he attributed to the late
Radical Government. He said that ncw Radical Government. He said that ncw
with the Conservatives in ofice, and a wint the conservatives in
minspesed of ". honorable men men ministry composed e felt convinced that
and gentlemen,", he for
her things would brighten. The Radicals'

one ambition was to set class against | one ambition was to set class against |
| :--- |
| class, landlord against tenant. $\begin{array}{l}\text { Well, }\end{array}$ | Class, landlord against tenant. Well,

during the last five hundred years, the Sylvesters had rarely been-he was sorry to bave to confess it-good men
(laughter and dissent); but he never yet heard of the Sylvester-though he shouldn't say it-who was a bad land2ord (loud applause).
This was a free country, and any tenant of his whe was not content (a voice, "'Oo says we bain't 8 ")-"thank
vou, thank you "', well there cou, thank you! "-well, there was
room for thim outside. (Chers, wim thanked God froun the bottom of his heart that, during the forty years he had been responsitile for the March Mere Estate, there had never been any friction between him and his people (cheers), and
he didn't think there ever would be he didn't think there ever would be.
(Loud oheers,) (Loud cheors.)
"Thank you, thank you !" And his motto was, "Shun a Radical as youdo the devil!" - and he was very glad to see them all there - very glad; and he wished to give them a toast, "The
Queen Queen $Y$ God bless her ! "and-walt a minute:-with her Majesty's name to
couple-he was sure tiat gracious lady
 Kenmuir !" Then he sat down abrupt1y amid thundering applause.
The toasts duly honored, James Moore, by prescriptive right as Master of Kem muir, rose to answer.
He began by avying that he spoke ... He began by saying that he spoke "as
representing all the tenants," repereesting all the tenants," "-but he was
interrupted. "Na," came a shrill voice from half-
way down the table.". Ye'll oxcept me, James Moore. The. as lief be represemted
by Judas !", by Judas !" " cries of "Hold ye gab, lit-
There were
tle mon! That'll do, Mr. M'Adam ! ", squire's voice, The little man restrained his tongue,
but his eves gleamed like but his eves gleamed like a ferret's ; and
the Master continued his speech. He spoke conienued his and to the point. short phrases. And all the while M'Adam kept up a low-voiced, running com-
mentary. At length
 ainsesir no longer. Half rising from his
chair, he leant forward with hot face and
bus burning eeses, and cried: "Sit doon,
James Moore! Hoo ddur James Moore! Hoc daur ye stan' there
like an hooest man, ye whitew ashed sepulche honest man, ye whitewashed
sepult
Sit
doon, I say, or ", threateningly-" wad ye hae me come to
ye ? At that the Dalesmen laughed uproariously, and even the Master's grim
faco relared. But the squire's voice rang
out sharp and stern
 Madam! D'you hear me, sir ? If I
have to speak to you again it will be to order you to leave the romm..",
The lil be to
little man obeyed, sullen and venge ful, like a beaten catt,
The Master concluded his and venge calling on all conentuded his speech by
for the sest to give three cheers tor the squire, her ladyship, and the
young ladies. The call was responded to enthusias-
tically, every man standing noise was at mat standing. Just as the
hersolf
henith, Leady Eleanour herself. with her two fair daughters,
glided into the gallery at the gired into the gallery at the end of the
hall : whereat the cheering became deane
her ing. Whereat the cheering became deafen-
inlowly the clamor subsided. the tenants clamor subssided. One by one
down. At length there $-\mathrm{M}^{\text {'Adaman }}$ His face was set, and he gripped the
chair in front of him with thin, nervous




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 ox 31. Vonda sath ,
$\mathrm{F}^{\mathrm{OR}}$ R S LLE-A wonderful gitra iberry. Ant
 paid, for 81. Other varietios. Send lor airoit.
lar. N. E. Mellory, Blenheill. Opy

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 I MPORTANT to stockmeo- Humanized do ally dehorn them. The operation caures
pain, and is
naiformly successfo




Special



CLYDESDALEE AND SHORTHORMS brod Imp. Clyde mares.2 and 3 yoarr old
bil
bilies rising the purple and both in foal. Tw. fillies redining a year, borple and bired by h in foal. Two qneea, both weill revisiterred grand rair. Three
Bhorthorn bulls from \& to gly moth.


Farm, Farm Storai nand mplemente.
6 Pure-bred Clydesdales 6

 Friday, March 22, at 1230 p.m. WENJAMIN SMILLIE ' Executors.

Write for particulars.
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## 45 show 45 Shorthorns

## BY AUCTION

(Etraldint sootoh)
The property of semes A. ORERAR, Shakeopeare, Onto, on Wednesday, March 13th, 1907

At hif ham, one mile north of shatesparese Ont., on
 Dorneer repromenting tho Diaty, Batlomen and Roan



 all morning trins.
Termes six months' credit, or 5 per cent. or tor comb
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MITHSS.OVARYY-TONIC Your hens will lay all the year romend, if
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healthy - strenthe healthy-strengthens and invigorates the egg-producing organs-and
tissue due to prolific laying.
Only 25c. and 50c. a bottle. Sold by


## Clydesdale Stallions!

first-class Hackney. Wm. Colquhoun wicehell, Ont Phone to residence.
| COSSIP. March 8th.-Innes, Schafer \& McClary.
Woodstock, Ont., imported mares and stallions. March 12th.-Hay Brcs., Tara, Ont.,
Shorthorns. Shorthorns.
March 13th. apeare, Ont., Shorthorns. Crerar, Shake March 12th-14th.-Estate of D. Milloy,
Brantford, Ont., Shorthorns, Brantford, Ont., Shorthorns, horses, fat
cattle, etc. March 19th.-John O'Brien, London West, Ont., Aberdeen-Angus and Jersey
cattle, and farm stock. cattle, and farm stock.
March 19th.-D. \& R. McGeachy, ColerMarch 19th.-D. \& R. McGeachy, Col
aine, Ont., Clydesdales and cattle.
March 299th. -H. E. George, Crame registered Holsteins, at Napanee, Ont. April 2nd.-Wm. Meharey, Russell, Ont
imported Clydeadale mares, at ottawa. woodstock clydesdale sale. Remember the great auction sale of 50
imported Clydesdale mares and fillies and 10 imported stallions, to take place at
Woodstock, in Woodstock, on Friday, March 8th.
better opportunity has offered better opportunity has offered, o
likely to be ofiered, for securing big, quality oñered, for securing good, pairs, two to six years old, richly bred
and some in foal and some in foal to high-class horses in
Scotrand. This class of mares is needed in this country to breed the sort of
horses that meded horses that are wanted, and woil bring
big prices. The stallions are also of desirable size, type, quality, breeding and
age, from two to six years old, sons of some of the best sires on the old sod There will doubtless be bargains in store
for those who attend this sale.

Crerar's clearing sale. March 13th is the date of the disper-
sion sale of Mr. James A. Crerar's splen did herd of Shorthorns at his farm, near
Shakespeare Station, G. T. R., six miles Shakespeare Station, G. T. R., six miles
east of Stratford, Ont., as advertised in
this this paper. This is one of the very best
herds of Shorthorns in Canada, having for years ranked among the principal
winning hends winming, herds at Toronto and other lead-
ing shows, winning second for herd in
the great compet ing shows, winning secont for herd in
the great competition at the Dominion
Exhibition, Exhibition, st Teronto in the Dominion
this herd also had when this herd also had the first-prize cow,
Gem of Ballechin (imp.), still in
her Gem of Ballechin (imp.), still in the herd,
her daughter, Gem of Ballechin
winning winning frist as a threa-year-old, and
the senior champlonship at the same
chat the senior champlonship at the at and
show. As ame
been tideno that the herd has been kept up-to-date in character, we
note that, at Toronto thind in the gradent-herd competition, and
first at the Western Fair, at sides a cresitable Fair, at London, be-
prizes prizes in other sections at both these
shows. The herd as it stands to-day is
princinstly principally made up of scotch-bred fe
males, personally by Mr. Crerar, and the produce of these
sired by frrst-class imported and prize-
winning bulls, the more recent being Cap
tain Maylly (imp). tain Mayfly, (ime, imore recent being Cap
a Toronto first-prize
winner. and ane the imported Claret bull)
Scotish Hero Scottish Hero. The present stock bull is
Trout Creek Choice, a massive roan twis
yen year-old, purchased, a at a massive roan two price, in
cluded in the sale, was bred by W.
Flatt

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504
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An
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Rupture Cure


CLYDESDALES ANO SHORTHORNS




## AUCTION SALE

## PURE-BRED AND CRADE STOCK CHATTELS AND HOUSEHOLD FURNITURE

Belonging to the late DONALD MILLOY, and situated at the premises on the south of the Parls Road, known as the "Oak Park Farm," Township of Brantford, on
Tuesday, Wednesday and Thursday, MARCH 12th, 13th and 14th, 1907 at the hour of o óclock. lunch at noon,

[^1] of excellent quality pedigree cattle. Thirty-four cows and calves. Twenty-fourd day. The furniture on the third day. Forty-five head of he dwelling quaity. Also the implements and carriages, etc., used in wenty-four steers and heifers. Fifteen Clydesdale mares and selditrgs from Paris or Brantfording purchasers can see the above property by applying of the business, and all the household furniture now in amounts over $\$ 25$, bearin Cerms-Cash for all purchases of $\$ 25$ and under. premises. The farm can be reached by electric railway號 9 months

THE TORONTO GENERAL TRUSTS CORPORATION, ADMINISTRATORS, Cor. Yonge and Colbome stieg Tomonto.
Or to Mesers. Hoskin \& Ofden, Solioltors, 28 Tomanto 8t., Tomonto.
Acotloneer, Wellby Almas, Brantford cevern
cossip.
holstein-friesian cuw records From Feb. 1 to Feb. 14, 1907. Records for 120 cows have been ac repted by the Supt. of Advanced Registry
in the United States, in the United States, four of which were
begun more than begun more than eight montins after
freshening. All freshening. All made seven-day, two tuade eleven-day, six made fourteen-day, and three made thirty-day records.
averages by ages were as follows:
Thinty-two full
T ye ars 24 days; days fromeraged: ag
Tye $\mathrm{e}_{\text {ars }} 24$ days; days from calving, 25
anilk, 437.7 lbs.; per ailt, $^{\text {at }} 16.541 \mathrm{lbs}$. Three senior fat, 3.53 ; olds averaged : age, 4 years 7 montheardays; days from calving, 32 ; ; milk, 433.9
lbs.; per cent. fat, 3.19; fat, 13.4 Eight, per cent. fat, 3.19 ; fat, 13.8 .5 lbs lior, four-year-olds averaged:
age, 4 years age, 4 years 2 months 27 days; days
froue calliving, $17 ;$ milk, 467.4 lbs
cent. sent. fat, 3.47 ; fat, $16.22 \overline{4}$ lbs. ; per
senior threeyear-olds averaged:


## SHORTHORNS

EBT Armotion
on

## TUESDAY, MARCH 12th, 1907

Belonging to the estate of the late WM. HAY, Tama, Ontaplo. Will be sold at the farm, $1 \frac{1}{2}$ miles east of the Village of Tara, where conveyances will meet morning trains from north and south. Nine breeding cows, 6 heifers and 6 bulls, inoluding the stock bull, Soottish Knight 53248, representing the Marr FLoras, Cruickshank Lovely, Stamford and Wildame strains. There will also be sold the Imp. Clydesdale stallion, Kelvinside, by Baron, Pride, dam by Maogregor, and two meslatered Clydeedale maron's

Terms : 10 months' credit on bankable paper. Six per cent. off for cash
Tara is on the Owen Sound branch of the G. T. R.
HAY BROS., Props., TARA, ONTARIO.
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Outenloyraon

Dispersion Sale of Pure-bred Aberdeen-Angus and Jersey Cattle, Grade Cattle and Horses.
Propprty of Mr. John O'Brion, London West, Ontarlo, 3 miles from the City of
London, on TUESDAY, MAROH 18th. 16 Aberdeen-Ansus Oattlo-3 bulle and 13 femalts, 14 Jursoy Cows and Hoifors. 1 Pair Grade Clydostlale bulls and 13 and 7 years old. 1 Heavy Draft Gelding-3 years, 2 Oarphase Fillines by
Hilldenby. 1 Filly and 3 Foals (feneral purpoee) by Lonnox. This berd of


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JOHN O'BRIEN, Pmop LONDON WEST, ONT.


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Pun up a lever to the righ of seat, and
mechine is securelo
mected in gear until load is distributed.
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the beetor is antomatioally moved beelk
from conte
 strikee it
A. lever on the left controls the speed of
the apron. Distributes any number of

By bisis same lever the speed of the e pron
 or allowing an inch of ground to be skipped. When load is distributed. just turn a
litulle lever to loft of beat ond the appon
auton at cally and

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## Imp. Clydestalie Fillies by Alction

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| Indiana, advertises in this paper Percheron, Shire and Hackney.stallions and imares, and claims to have the largest | 3 Ypars to fure |

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There is a remarkable cure described interest to anyone suffering from deruna ments of the kidneys.
Mrs. Dave W. McCall, Lombardy, Leeds
Co., Ont., writes : ' I I desire to adknowl. Co., Ont., writes: "I desire to alkiknowl-
edge the benefits 1 h have received from Dr. edge the benefits I have received
Chase's Kidney-Liver
Pills.
I
I
was. troubled with kidney disease for eight
years, and doctored with several doctors to no avail uritil my husband got me Dr. Chase's Kidney-Liver Pills, and I began
using them. Altogether, I using them. Altogether, I
boxes, and can truthfully say
I
would have been dead long ago only for Dr. Chase's Kidney-Liver Pills. Words cannot express my praise for them, for I be
lieve there is no medicine so good for kidney and liver disorders." Dr. Chase's Kidney-Liver Pills are
unique in tiat they have a direct unique in tiat they have a direct and
combined action on both the liver and kidneys, and for this very reason prove kidneys, and for this vertive when other treatments fail. On
effect pill a dose, 25 cents a box, at all deal-
ers, or Edmanson, Bates \& Co., Toron-
 country is measured by its bank extenIt It takes more than knowledge of soils
and fertilizers, stock and poultry-rdising,
to make a good and properly-successful fo make a good and properly-successful
farmer. If heatht, the one hig assos, is
lacking, the value of all other assets, the lacking, the value of all other assets, the
value of years of experience, is greatly
discounted and decreased. The farmer needs a healthy and vigorous body, and
an alert and clear mind. There are thousand and ole things about the farm
that require his personal attention. no one can do it as well. Hention;
around and see to these things perse ally, and he cannot do it if he person-
tured by bodily ills, if he is cont ured by bodily ills, if he is continually
rmented by chronic complaints. farmer will worry night after night but will utterly neglect his own health, This is wrong! The farmer should use
all available means within his get and to keep health. The full-page adt vertisement of the Theo Noel Company
in this issue, offers means suffering with chronic ailments have found
health Sufering with chronic ailments have fout
health and strength with which io wres
prisnerity prosperity from the soil. No money
asked. The applicant can get the treat
ment for the askin. is allowed
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tons to above pointe and many Western and
Coast poin te not named Ask for particulars. Tickets good going March See nearest C. P. R. Ticket Agent. City Offioe: Corner Rlohmond and Advertise in The Farmer's Advocate and Get Good Result:

MARCH 7, 1907


## QUESTIONS AND ANSWER

 Miscellaneous.STIFLE DISLOCATION. Yearling colt was, one morring, unable to back; one hind foot came off the floor with a snap. She was all right for some dame, way. After we make her back and name way. Atter we make her back and
step up, her toe will drag for a atep step up, her
two. She is in good health and thriving.
W. J. M. M.
Ans. - This is evidently partial disloca
tion of the stife. tho ot the otitio. Place ar rope around an assistant draw the limb well forward while with the hand you press the bone when it will usually fy into place with sharp click. Keep colt tied in stall, an
the limb well forward by means an wideline tied to a collar or strap around its neck. A smart blister of cantharides (Spanish ay), one part to six parts lard
applied twice, with $a$ weekk between, wil assist in effecting a cure.
fanning-mill screens. Is there any methiod or scale by which
 Ans.-The Manson Campbell Co. Chat ham, Ont., furnish the following list of the sizes of the screens and riddles in use in their ordinary mills :

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M 1


1
FEEDING YOUNG CALVES. Please advise me in regard to feeding
flaxseed meal to young calves, three veeks old. I am putting them graduall on to separator milk. Should it be boil-
ed or scalded? What quantity should be given? Could you advisity anything bet pigs ? Is flaxseed meal good for young
SUBSCRIBER. Ans.-If flaxseed is fod to calves, it should be the whole seed, soaked for 1
hours, then slowly boiled to a jelly, an calf in warm milk, and increased to each cupful later. Flaxseed meal will almost
certainly upset the digestive organs and cause diarrheoa if fed in milk, and is and also fod too freely the joints of the legs, if fed too freely. Boiled flaxseed is safe If a but we do not consider it necessary

## Seeds for the Farm

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"Sun" Red Clover
 MY BEST BRANDS.
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From top to bottom it is a distitinaty superior fonce A special grade of No. 9 heavy coited wito is yed kind of No 7 heary hard oed wrety locked to the stittent hard steel material and not weakened by env peentiraly of or knots, the Frost Fence may be iually termed the koter fence" the longestlasting, most teconomical fence to buy The greater strength of the Frost Fencos mal buy. exceptionally well-suited for a hoo fence. With the enditional short stays at the bottom (as shown in illustration) tie lititle pigs are effectually prevented from squeezing their way out. The weight, strengeth and rigiditity of the Froest makes it a waste of effort tor your moost aimbitiouts rooter to atempt to yet under the fance.
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| :--- |
| W. H. SHAW, Pree. | I am offering for galo my ontio flook of proe-brod

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guarantee as to acouracy, quality and durability.

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On common fences the continuous to lose their grip under continual pressure of your horsees or cattle. And once
they do, the top wire, soon followed by they do, the top wire, soon followed by
those below, will eag and destroy the efflciency of your fence.
Nothing like that can happen to our
Dillon Hingo-Stay Fence. Dillon Hingo-stay Fence. The short, stiff hard stoel wire in our hinge-stay
cannot bend when the lateral wires are weighted down, owing to their being so
short and jointed at each strand wire.
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BURNBRAE SHORTHORNS Burnbrae is the Scotoh name of the Stouffville, Ont., without doubt the mo , whout doal on tion with the importing and exporting Shorthorn cattle, Clydesdale horses Shropshire and Cotswold sheep. man of his age in Canada has imported more high-class animals than Robert Miller. Year after year, his annual importation of sheep at Toronto Exhibition invariably wins a good share of the red, white and blue ribbons of the classes which they are shown, and in following years, in other hands, repeat the record principally at the leading shows of the United States and Mexico, where the buik of them go. His Shorthorn importation in looking over the half-dozen or more bulls he imported last year, we can safely say that they are certainly the best we have seen, and a gilt-edged lot. Belo is the list, and as imported bulls are a should lose no time, as they will sha the very reasonable prices asked for ge of their superior breeding and individuality: Ardlethen Fortune, by the Princeas Royal bull, Spion Kop, a son of the \$6,060 bull, Bapton Favorite, dam Flower Girl 9th, by the Sittyton Victorit bull Scottish Victor, is a roan, eleven month old, a big, thick, sappy youngeter. Upper mill Omega is a roan, twenty month old, the last call bred at Uppermill before the dispersion sale, consequently the last chance of getting a young bull of W. S. Marr's breeding, sired by the Sitty Maude 37th, by the Cruickshank Clipper bull, High Commissioner, who is also a grandson of Champion of England, grandam by William of Orange. This is show bull of a high order. Benholm
But Butterfly, as his name implies, is
Cruickshank $\begin{aligned} & \text { Butterfly, sired by Bonnie }\end{aligned}$ Scotland, dam Duchess, by Orange Duke,
grandami by Prince grandan by Prince Rupert. He is
raon, eleven months old, a grand, nice
that roan, eleven months old, a grand, nice
thick, even young bull. Diamond Cros,
is a roan yearling by the Mar is a roan yearling, by the Marr-Clara
bull, Imp. Cronje 2nd, dam Imp bull, Imp. Cronje 2nd, dam Imp. Rosi
Dorothy. a Lady Dorothy, and a first
prize winne prize winner in Scotland, by the Augusta-
bred bull, Justice. This is an extra goo young bull, built on show-ring lines. Ardlethen Goldsmith (imp.) is a roan,
eleven months old a Brawith Bud eleven months old, a Brawith Bud, by the
Princess Royal bull, Spion Kop, dam Golden Wreath 7th, by Touchstone. He also carries the blood of the great Cham-
pion of England, another grand, thick, even, mossy young bull. Royal Fancy Mmp.) is a roan, eleven months old, bred
by Mr. Duthie, sired by the Marr-Goldie bull, Scottish Fancy, dam Sensation 7th,
lyy the Primrose bull, Prince of Fashion.
This young This young bull cannot fail to be a
grand sire, as his breeding and type are
the very best. Another is white (he very best. Another is White (imp. in
tham), nine months old, sired by Diamond
dian (aum, nine months old, sired by Diamond
King, dam Rosewood 84th, by Mountain
Archer Still west in the lot, and a show calf all over
is a red nine-months-old, imported, sired Roving Robin, dam Mountain Maid
22nd, by the Nonpareii bull, Squire
Vonpareil. Last, but by no means least i a Canadian-bred Miss Ramsden bull,
ced eighteen-ionths-old, by Imp. Golden
Beau, dam Imp. Princosy Beau, dam Imp. Princess Ramsden, by
Bapton Fancy. He is a big, growthy,
well-put-up bull, one calculated to do food in any herd. The calculated to do
the Marr Missie. Martha, Undiong to
to ace, Buckingham, Mina, Rusettia, Love Rose
mary, Rosewood, and Miss Ramslen
Strains. Neardy,
$\qquad$
$\qquad$


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Among the thousands who are now using Rennie's Seeds, in this and other lands, I see with pleasure that many are still on the list who were customers thirty-seven years ago y
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Any farmer mho knows fence
knows
ITealis his kisind as soon as he sees it He Hees the bigs, strong wires and how they are put to.
geterner and that pretty nearly
gettes it

 the heaviest that are used for
fencing in Canada. ALL No mind oun not nata. at top and bot.
tom with some gimsy light ones
to between in between.
He finds they are all of hard steel. Just about twice the
strength that you get in soft wire
 stays are substantial (they are
No. $\theta$, too) and he knows they
and heip do the work of the posts.
 at every crossing, hee knowe that when he puts.
here to stay.
Take a look at the lock shown melow. It, it's the the best thing of the find uided on any fence-grips the wires
at five bearting poilts. It makes every part, strengthen every othe
part There ie ié no weak pitaces. The fence is ofite complete whiole make it sag. Climbing nor anss

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We WIII Import Welsh Ponies and shropshire sheop.
Write for tornas and prices.
Lloyd.-Jonos Eros., ieurforal. owe.
When Wrilling Ploase Mention thls Paper

## QUESTIONS AND ANSWERS

 Miscellaneous.Stunted calf
I have a call, about ton months old, Weanod, a very, paor one.
and hay, but cannot get it toed dit coat chop
and and hay, but cannot get it to eat the
chop or oats. Could you advise me what chop or oats. Could you advise me what
I could do with it $\%$ G. Ans. - If you can got it to drink
smail quantity of akim milk daily, this will bring it around more speeoilly, than anything else. In any cape, withaond
oats and bran for ant time then ofter the calf, in very small quantities at arst, a mixture of two parts bran one part
chopped oats, and one part choppod oats, and one part orl-cake pearl.
If it will not eat meal, try it with If it wil not eat meal, try it with
handrulu of whole oats, a few milices
roote ond roots, and bright oatser a few willices
toly whil help
 picking up a little grase will do much to
bring it on, but a stunted call seldom bring
amounts to on, much.

PROMISSORY NOTES. 1. I gave B , who is agent for a com-
pany, my note for the balance due anm binder machine. The company, atter a
little while sent one little while, sent one of their men from
the frim to collect all the note the
standing from the agent. The collector
tor Ior the frm, after revelving the notes
from the agent, is, through bad habits, I am told, taken insane, and ts removed to the asylum. In the meantime, the con
pany does not receive the notes, and the are presumed by the agent to be lost. 1
admit the llability, but admutt the liability, but am I logally
bound to pay the note if $I$ annol ceive it back when it toecomes due? 2. Can I renew a note due, at the bank, without consulting the person
whom it his drawn? whom it is drawn?
Ans.-1. Yes, upon being properly in effectively unless the bank are really the holders of the note or have gratit the extension of time for payyment PIGPEN CONSTRUCTION. 1. I am going to buill a pigpen, 26 and a cement wall. I want wall one fool and ache Fundation will be on fiat rock
hifguld you advise making my wall, then
Wout Would you advise making my wall, then
glling in with stones, and then put a Giling in with stones, and then put
cement foor on the stones ? 2. If this would be all right, how
would I need to mix cement for wall, would I neod to mix cement for wall,
also for floor? 3. About how much cement will it neod
o complete the wall amd floor in this way? How would you arrange ventilators In a pen of this size, walls being 8 feet

high | 5. | I am going |
| :---: | :--- |
| passage in center. | to have a four-foot |
| Would three windows |  | on each side be all right? 6. I am gotng to put in slieepling berths. 7. In putting down cement floor, would you advise putting in coment

troughs, or would you buy steel troughe, troughs, or would you buy steel troughe,
or make plank ones 2 or make plank ones? advise using, one to cook with steam, or one with just a fire under the pan? or Ans.-1. We think the plan you sugget is all right. The loose stones under
the foor should be thoroughly pounded
together before together
hem. 2. For wall and first layer (three 2. For wall, and fret layer (three
inches of floor, mix (dry) one part Porti-
land cement to nine or ten parts gravel, land cementen anterwards. The foor
anding water atter Should have a hall-inch surface coat, ap-
plied immediately after each section of plied immediately arter each section or
under layer is laid, and rammed, of one part cament to two parts sand
3. About nineteen barrele 4. You might have two flues over
passage, ench at least one foot suare passage, ench at teast one of your head
extending from the helght of
to slatted ventilators on ridge, Windows can be opened a little, it neqeessary Read
he many letters on the subject we the many letters on
nublishing,
5. Y.es, all right.

About three feet.
Would advise plank troughs, lined
 Choose the slmplest kind, but would have
none. The best authorities agree that
bet $\underset{\substack{\text { a oolftn } \\ \text { value. }}}{ }$

IS YOUR LAND SICK?


The "Champion" is the Doctor
TIf your crops are not coming up to your expeotations we think thats,
 Pitch forking manure in the old- Aashionod way -a forkfoll hore and another
thero-will never keep your land in : good heart. Spreadivg manure is just there-will never keep your land in good heart. spreadicg manu.
like anything else-to do it properly your must do it ayitemstioally.

T When buying a Manure Spreader it is well to look over the different makes on the market. We are glad to hare you, compare the "Ohampion"
with any other make, because we know its Buperiority will zhow iteolf in any



Tho Beator Drivina Meohanlom. The Beater to itter




The Beater Froelnt Devloe. When the "Ohamplon "in throw
 $\pi$ Sond for our oatalog ' F " '-it's useful.


## IMPROVED FARMS

A fow speoial ohanoes to locate some sood farmers on first-olass improved farms in one of the best farming distriots in SASMATCHEWAN, Main lino C.P.R., good town, six elévators, good schools, fertil. ity of soil unequalled. Terms easy. Write at once for particulars, stating how much land wantod, whether you want all prairie or partly wooded, all for wheat or mixed farming, and the amount you can pay down. Information and experience of 24 yoarg' reaidence in the country is at your disposal for the asking.

## B. P. RICHARDSON,

Grenfoll, 8ack

A Bargain.
820 Eale In Sarkatohowan 820 anmes of good land, adaptod for House plastered, with a stone colliar and oonorete floor; ; stabling for 40 hend; poultry-house and worthhop; good water
and fuel; situated within one mile of G. T. P. town site, and fuel ; situated within one mile of G. T. P. town site, and in a cood lowilty: Stook and implements may be had on premisen. Ownor winher to move
Southern States. For immediate nale, $\$ 16$ por moce. Tormis artinge Oorreopondenco solioitod. Apply
: D: Bumns, 508 Molntym Blook Winniped.


GOMBAULT'S CAUSTIC BALSAM Aatios spoded and
positive curs
tor





 Till Lamand-wihuns coipurt, Toronto. Ont.

Largest siud in the World of American-brod Percheron Shire and Hackney stallions and mares.
Have won more gold meadale and cham-
pionships than any other oxhibitor.
Btal-
 Stallions s700 to 81,000; on oasy terms. Mares 3300 to 8600 for choiee
LEW. W. COCHRAN, Gmawfordsville, Ind.

For Sale: A Registerad Clydessale Stalion





 Imp, Clydestale Fillies !


 Old atallion.
and beot them.
Molton Wageo ClaromontP. 0 asta
SHETLAND PONIES! pormooulloush a son Broeders and im.
 Al our poniteo aro imported. Oun tallilion, For

 Imponted Clydesdales




Goo. ©. Stewart, Howick, Oue

TRADE TOPICS.
Dr. B. A. Tuttle, Boaton, Mane. Toear sir,-I treated a horse with Tuttio's Elisdr for sparin, and found it to make a complote cure, without remov-
ing the hair. The horee has been tested
sere severely and has not shown any eigh a
lameness. Hoping ths will to someone else, I remain,

Yours truly,
St ${ }^{\text {E. }}$ ROY RAYMOND.
ar.
AN TMPROVEMENT on barn-door LATCHES. - Through our advertising columns in this issue a new barn-door
latch ie brought reach is brought to the attention of our
readers. It is made by the Albany Hardware Specialtity Mfg Co., and has a number of features to which attention is invited. The handles are of convenient
shape shape for opening the door from either
side, and can be adiusted fitting to any door of reasonable thickness. It automatically catches and holds
the the door either closed or open. It is
attractive in design mater attractive in design, material and finish,
and seems to be amply strong for all purposes. One of the most essential
pall features of a good latch, and one which
is usully is usually found wanting, is that it shall
have no projecting points the will have no projecting points inat will either
catch in the harness or injure the animal itself when passing through the door.
It is claimed nates this dien this new latch elimiIt is in use on the experimental farme It is in usilur experimental farms of
42 agricultural colleges
fact which argues well for it. The company is making a very interesting proposition to
those whe have not tried this new device. For particulars, refer to the advertisement elsewhere in this paper
the hoover potato-digger. - The manuadurer who evoud furnish to po-
tata-growers the best digger, must build tato upon the actual experienoe of a potato
it
man man. It can be said of the famous
Hoover digger that it grows directly cut of the experience of Mr. I. W. Hoover,
President of the Hoover-Prout Ho was a large potategegrower in Northern ohio, and had befin lior twenty years,
beto before he perfected his digger. He in-
vented it originally for his own use. Today it is in use by potato-growers all improvementstry. in there have boen graal
later yeara. later years. In 1905 , the 22 -incher eleva-
tor, with its large sevarating sunf Cor, with its large separating surface, was
brought out. This
improvement, to gether with its lighter draft, placoed the Hoover in the very front rank of diggers.
The mantacturers The manufacturers have made it a strong,
durable m machine- ono that durable machine ono that growers do no
hesitate to put to work in any kind soil. It can be depended upon to get all the potatoes, and a point that every
body appreciates is that it delivers the in ©ne shape, clean and uncut, in straight rows on top of the ground, where they
are easy to pick up. If of a diug tor, dick top. place your order ne un
til you have written to the Hower til you have written to the Hoover-Prout
Comany, Avery, Ohio, for their cata logue, and
Hoover digger
cossip.
An important English auction sale of 5.450 pure-bred Southdown shoep, includ
ing consignments of ewes and rame ing consignments of ewes and rams from
nearly $\begin{aligned} & \text { all the leating focks, is advertised }\end{aligned}$
nithis thier




Company limite



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## TORONTO

## Good Reasons

WHY OUR
Corrugated Iron
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We use only best Apollo or English sheets.
The corrugations are pressed one at a time-not rolled-fitting perfectly, both at ends and sides without waste.

No scale, pin holes or other defects are ever found in our soods.
The galvanized sheets ar coated on both sides with all the galvanizing material that can ad ere to them
The painted sheets are coated on both sides with best quality paint.
We furnish any size or gauge equired-either curved or traight
If you desire durable quality and certain economical satisfaction, send us your specifications or write for further information.

NO CHEAP TRASH

## Get Readyfor Sping CARNEFAC SEASON

It pays immensely to use CARNEFAC for all Farm Stock and Poultry. The cost is but a trifie. It brings the stock out in excellent shape, and prevents untold it brings ritical time, when colts, calves, pirse and lambs arrive

Try it for this season, the results will convince you
Use Magic Healer for scratches, wire cuts and all sores.
The Camefac Stock Food Co.
Tomonto.

## W. C. KIDD, LISTOWEL, ONT.

Importor of Clydesdales, Shimes, Porohemons, Belglans, of highosi Doseible quality and richest breeding. Have sold as many ing man in he brain if high-alas horses on hand. My motto: "None bat the beet ind eavay a arise numbe


ADVERTISE IN THE ADVOCATE.


 keeps horses in the best possible condition. Work horses do more work, driving
horses have more spirit and better life when HO SS.
 Send for the books today.
Deatry


MARCH 7, 1907


30 JPIIROMEVコROOTE

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HAMILTON \& HAWTHORNE, SImcoo, Ont mem mile sonth. Weest of Toronit on the $Q$. T. R


IMP. CLYDESOALES \& HACKNEYS
Stallions and fillies of both breeds, representing the best blood of Eng
land and Scotland, combining siz and quasity and fualtless action. II I in want of something exceptionally
ohoioe, oome and see me. You will ohoioe, oome and see
not be disappointed. You wil
Prices right DUGALD ROSS, 8tmeeteville, Ont

## GRAHAM BROS.

"Calmbmodle," CLAREMONT, mpoazars or
HACKUEYS anl CLYDESOALES Eistablighed 80 years, and winners at all large show:
in Oanada and United States. Best of stook alwayl in Canadas and United 8tates. Best of stook alway fust arrived.

## T. H. HASSARD

Millbrook, Ont.
Has on hand 40 hoad of Clydesdale, Percheron and Hackney
stallions, and 95 Olydesdele filles, ropresenting Soctiand

 MILLBROOK P,O, AND 8TATION Lons-dletanoe 'Phone
 CLYDESDALES, SHORTHORNS and YORKSHIRES
 DONALD GUNN \& SON, BEAVERTON P.O. \& ETN. Farm Three-quartore of a MIIs from station.
8MITH \& RICHARDSON,

## COLUMBUS, ONT.

 anezoe日lod. Soothand prizewinners. Also a few Canadian-bred etallions, and

Long-dittamoe 'Phone Mywtle Etation, C. P. R

QUESTIONS AND ANSWERS Miscellaneous

PIGS BITING EACH OTHER. Re pigs worrying each other, I would
say that I do not know the cause, but
I start fighting, to be a good cure. It
gives them sonnething plse to think

## WOOD ASHES FOR GRAPE-

I intend to use wood ashes around
grapevines, and would like to know what quantity per vine would be safe to use
how far it should be kept away from the ine, and what time of away from the year is th
best time to put it on.
D. M. Ans.-With regard to using wood ashes
around grapevines, 1 nuay say that there






 anplict any time or ot the Ahese may When the solubie plane tood thee spring. Nown to where it mayy bee mane use cols
feeding cockereis
 equal parts bran and corn meal made of
 the corn they want, vut they do not seem
to be doing well, Could you make oem mprovements on this? Ans. - I am not just sure, from the
totement of the case, whenther the corre Ppondent wants to thiten theors cockerorise
or to dovelolop them.

 with the bulk of tho hull sitround out, corn
meal
neal


 Witil be prow as hees now wre. To get

 healthy condition before you can do muci With them. Chickens Chickens that are in so small a space,
in myy experience, should not be fed whor
rain, rain, and in addition to this you can fime: wilth them thriving for a limited weeks is the limit, and with a careful roisably keep them in good condition can about 4 or 5 weeks, possibly 6 weeks at the nutside. After this they would begin to get signs of listless, and probably ocow signs of becoming unthrifty. If you
want to develop these cockerels (not fathem), it would be wise to feed them rence to corn alone. I would be inaned to take out the oil cake. Oild cake
is not very palatable for meonfleach day to the five birds would
plenty. would prefer using some middlings, with bran and corn meal, also You do not mention giving any grit to
he chickens. This They should have both grit and lime, or if you can get grit which contains lime, rercial grit, commonly knownary comgrit is not as good ind, probably, as
the siall, sharp ine respects rom a

a yster shells, gives spar, when fed with | ctorily. |
| :---: |
| W. R. GRAHAM |



Anoilion Belef of



 Bawden \& MCDConnel

EXETERE ONTH
 12 Grydes and 2 Hackneys selooved trom tho best bree Mre in Soolland, and eired by Baron pitc in all abouth in thilions in th bern-cirade Will do well to ingpeot be thoes horre Areot

ANNANDALE FINE STOCK TARM TLLLSONBURG, ONT.

Premier sire, Prince Posch Calamity whose dam and sire's dam average in official test 86 lbs milk in 1 day
and 26 lbs , butter in 7 days.

No stoc̣ for sale at present

GEO. RICE, Tillsonburg, Ont.
For Sale-Ohice remittored holet in buil

 W. A. BRYANT, Calrngorm, Dint. Don't Buy Herefords


Until yon hant our witoei
 A. 8. Muator, Durthan, cont.

Sunnyelde Amepofords


Yoiod of thooma iix hio
 Broxwood Heroforils

Cows, heifers and calves For Sale.
R. J. PENHALL, Nober, Ont pour bolly from 8 bit canm hlingronide

 HEREFORDS- Wiate now oneris to
 Pa Angus Cattlo monda hat



## Imponted stallions and Flllies．




ROBERT BEITH，
Bowmanville P．O，and Station． Lonediditance＇Phone．


THE LA FAYETTE STOCK FARM
J．Crouch id Sons，Props．，La Fayetto，Ind．




 J．Crovait is bon，Ia Fayette，Ind． La Faytho it bat eir hours ride of rom
Imported Clydesdale Stallions and FIIIIes




## SCOTCH Shorthomns

 Fom mex：Two importod yearling buls．Two
imported bull calves．One home－bred Yeorring bull．Alves．Mood ind home－bred rightly brod．Also imported cows with calves at foot and heifors，different age
of good quality．Write or call on

H．J．Davis， woodstook，ont．
Importtor and Breeder of shorthorns


SUNNYSIDE STOCK FARIM
 For nale：$A$ number of yount
BHORTMORM
BLL ted and rom，from tmporbid hond parabred herra．Apply， Brookedale，Ont
Wm．Grainger \＆Son



 olboro sit
and P． 0.
SHORTHORNS \＆OXFORD DOWN Horde hoaded by Protecor．Imp．i．Vol． 58 E


DURHAM BULLS FOR SALE
I have throeg good bull callve for sale，


ниан тноmson，se，mary＇e，on
ABERDEEN－ANGUS
 JOMN UMDERWOOD，©RAFTON，ONT．


John Gardhouse \＆Sons

 them．Ahoo treatif amone diro and dam．Hound billa，brod from boop Pioasant Valloy Shorthorns


amo．Inios a Bon．Mornat，Ontarlo．

MIPLE GROVE SHORTHORIIS



 Maple Lodge Stock Farm 1854－1907．
Am now offering a grand lot of
young Shorthorn Bails，several young Shorthorn Bulls，several
from ohoiee milking strains．Also a few extra good heifers．
a．W．Smith，maple lodge．ont
EMORTHORNE
Wo ofier ror sale 8 young bulls，anumber
of them
orom imp

 Spring Valley shorthorna


 Kvie zroo． Maple Hill Stock Farm scoten Shorthorns

 Shorthorns Btamfordig Engli io


> 盟：

QUISTIIONS AND ANSWERS．
Veterinary．
ECZEMA．
Colt has a scruff on its back．Little
lumps appear，and then little scabs form lumps appear，and then little scabs form，
and，if these be picked of，a little matter is seen． Ans．－Give a thorough washing with
strong hot soft soap suds，applied with a strong hot soft soap suds，applied with a
serubbing
bubush．
Exclude drafts，and rub with cloths until dry．This will re
move the scabs．Then dress with a solu－ move the scabs．Then dress with a solu
tion of corrosive sublimate， 36 grains $t$
a quart of water．Dress every thind day， a quart of water．Dress every thind day
but wash only once．If your stable is warm，you will find treatment sasier it it
you clip the effected parts．

## Miscellaneous．

FEEDING EGGSHELLS－SPACE FOR CATTLE．
1．Is it a good thing to feed laying
hens ground eggshells？Wculd it start them eating their eggs ？Would it start 2．About how many square feet should cattle loose－cattle weighing 1,200 apiece？ Ans．－1．Good for the hens certainly， but it would be well to have them so the hens would not suspect wood that were getting．
square should prefer to have sixty have but forty．

DRIED BEET PULP．
Could you tell me in an early issue as
to the feeding values of sugartent co the feeding values of sugar－beet meal，
as advertised in your paper by the Wal－ laceburg Sugar Co．，for poultry？Would it equal bran pound for pound？Would equal short－cut clover or clover meal ？
J．R．H． Ans．－Sugar－beet meal will more than
equal bran，short－cut clover，or chaver meal，pound for pourd．It has the good qualities of these feeds，and when
moistened becowes a green feed， similar in effect as what poultry，gexts dur－
ing the summer． ing the summer．It it clatimed for it，
that tor this reason it will largaly in crease the number of eggs produced，and that this fact can be established by a few days trial．It should be fed in com－ cracked grain，wheat or wheat bran，in che proportion of about 1 pound for 50
chickens，and should，by all means， we．wallaceburg sugar co． those who have had like to hear from QUARANTINE AND INSPECTION 1．Will hogs，imported from Michigan
have to go through inspection have to go through inspection where they
are raised，or will they have to go un－
der inspection der inspection at the line？
2．Will they 2．Will they have to go under a quar－
antine for any length of time，and，if so 3．Can you give me details of cost for
transportation rransportation，duty，inspection，and general expenses connected therewith per
head？ 4．Give me full particulars how to go
about it to have these hogs shipped to
 Ans，－1．The Canadian customs regula－
tions require that all swine imported
from the United States must be accom－ hanied hy a certificate，signed by a veteri－
narian of the U．S．Bureau of Animal In
$\qquad$
$\qquad$ immediately preceding the date of shiy 2．Such swine shall，nevertheless，
inspected，and shall be subjected Yuarantine of thirty days bubjoctod


ABSORBINE

人）

 W：bmernan


A．EDWARD MEYER


 uat ompationtion ibi
SHORTHORIS \＆BERKSHIRES
亚 5．J．PRARBON，SON a © O，
 KENWOOD STOCE FARM SHORTHORNS．
Etam btal

 oun ina rimeom

Mes．Hitente On Kont Ca
T．DOUGLAS \＆SONS STRATHROY，ONT．


Huntlywood Shorthorns．
Young bulls for sale．The best lot we
ever had，by Importba cioely＇s Prrad

W．H．Glbeon，Manator，
$\qquad$
Volume 24 of the Hackney Studbool of Great Britain and Ireland has been re－
ceived at this office：thanks to the courtesy of the Secretary and Editor Frank
Eondon，
F． Euren， 12 Hanover Square． of 552 ．It is a substantial volume
pantaining pedigrees of and mares numbering from 9,576 to 9,992
andering from 17,878 to
18,787 ，a list 18，787．a list of transfers and of prize
winners at leading stows in egister or owners，and much other useful
ufformation．


Belman Parc Shorthorns

WE think we have as great a lot of young show animals as has ever been on one farm in Canada. Our herd is large, the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls 25 heifers under three years. A splendid group of breeding and show matrons. Mostly in calf to the champion Marigold Sailor $=53258$ = and the prizewining Nonpareil Archer (imp.) $=45202=$. Pembroke is on the main line of the C. P. B arrive Canada Atlantic Division of the G. T. R. You can leave Toronto $11 \mathrm{a} . \mathrm{m}$., arrive Pembroze 12.05 p. m., see the herd, and arrive Toronto next morning at 7.20 . We prefer you to see the cattle, but if you can't spare the time we take special pride
in filling mail orders satisfac in filling mail orders satisfactorily.
John Douglas, Manager. PETER WHITE, Pembnoke, Ont.
F. A. \&e J. A. TVATLIL Offer special inducements to buyers of
HORTHORN BULLS
For the next few weeks. They also price females of rare quality
Elora Station, G.T.R. \& C.P.R.
SALEM, ONTARIO.
WESTSIDE SHORTHORN HERD AND BORDER LEICESTER FLOCK.
All Recilotered in the Hord and Flook Books of aroat Epitain.

 a. Oameron \& Sone, Wostolde Farm, Broohln, Sootiand.


Special Offering of Scotch SHORTHORN BULLS
dust past two years old; 15 just over one year old ; The best lot we ever had to offer in indiviauality and breeding.
and prices are right. Citilogue.
dohn Clanoy, H. GARGILL \& SON, Camglli, Ont.

## AT "MAPLE SHADE"

 Our young bulls are the best that our herd has ever produced. We canfurnish Cruickshank bulls of high quality to furnish Oruickshank bulls of high quality to head the best herds, and
some that should produce the best prime steers. We have a bull
oatalogue. Send for one. OHN DRYDEN \& 80


Queenston Helghts
SHORTHORNS
Special offer now: Several ohoice Special ofter now: Several ohoice
Sootch bulls, two of whioh are show bulls, a roan yearling and a
red two-year-old by Derby (imp.)
$=32059=$. Their dam is Bessio' Maid $=47779=$, by the ig greast sire Royal Prince $=26062=$. There is ooung better breeding. Also some young oows and heif
MUDSON USHER, Queenston, Ont
GEORGE D. FLETCHER, Broedor of Booton shorthom


 dam. Sows bred to imp. hos if desirvod.

JOHN LEE \& SONS, Highgate, Ont
 SHORTHORNS \& LINCOLNE



T. E. ROBSON,

Live-stock Auctloneer
2 B录OHER ET, LONDON, ONT.

$w_{0}$ d. Thompson, Mitchell Six Red Shorthorn Bulls 18 to 15 months old, got by Proud Gift
$=50077=$ (imp.)
also cows and hifers

 reoord at Chicaso, 190
J. T. GuBSON. Donfield, Ont. shorthoris and Clydesialas

## I am now offering 6 young bulls from 8 to 90 months old, all $\operatorname{scotch}$ bred. two of

90 months old, all Scotch bred. two of
them from extragoo mailking familiog,
and a fow registergo fllies of goois quality. and a fow registered fllies of gooi quality.
OHN MILLER, Bmoutham, Ont. Mlaremont Sta.. C.P.B.; Piekering, G.T.B.

## STRUAN SHORTHORNS


 (PMPRIOR, N. B. ROBMRTSOM. 12 SHOATHOFAN BULLE FOR SALE


QUESTIONS AND ANSWERA Miscellaneous.

HORSE AND VETERINARY 1. Could you inform me through your
valuable paper, where I could
 Horse,", and the cost ot omemo of the theo
some o ther works on the horae that you some other works on the hore that youi
think is better 2
 Ans-1. Capt. Hayes ". Points of the the



 Hopbuan, si, are both ustul worke, the
former going more into detail.
Any of these young more into detail. Any of
thean order through this office. BROODER CHICKS DYING. Little chicks are dying at the age from one to two weeks. They are kept
in a brooder about three feet square which gives them ample room; the heat
ranging, first week, 45 degres ually lessening. Can find no lice grad chicks seem to be healthy in the morning, but at noon one or two are dead. They scattered in chaff for scratohing feed clean water; beet scraps, and dry mash al ways before them. Had some of another
hatch that went waik hatch that went weak on the legs, but
seem to be getting all right seem to be getting all right now.
G. F. R. is wrong with these to say exactly what from the tone of ohickens. I gather digestion. A few chickens at this sea son of the year are likely to die from sealack of vitality. It may be that your his brooder. Ninty-five degrees in in brooder would be ample temperature for some makes of brooders, and insufficient so that the chickens will sufficient heat with their heads sticking under the hover do not think the chickens are Jouliy. In raising chickens in the winter time,
ne of the chiof diffculties is to keep them on their feet. In order to do this, one has to give them plenty of exercise,
and as much fresh ar and as much fresh air as possible with-
out chilling the chickens." quire to feed them considerato Youlso revegetables. We use some sprouted ats or barley, mangels, and the tender shoots from various roots, which develop
in an ordinary root cellar, refus in an ordinary root cellar, refuse lettuce,
or anything of this nature. Sometimes we grate the mangels, and mix dry chop with it. your correspondent examined the chicket that died. It would be interestickgens to
know whether the yolk know whether the yolk was entirely ab-
sorbed, or whether sorbea, or whether it had begun to
harden. Raising chickens in winter tion requires the use of one's best comme
sense sense, and you have to watch them daily.
I might add that it would to feed these chickens some be advisable
bone, als bone, also some oharcoal. I cannot say
that I would before them advise beef scrap being left do any harm, but our experience is that
hopper feeding is a mity hopper feeding is a good thing is that
ummer-time, but very the With winter chickens, we have beenter. hle to keep them on their feet at an-
all
atisfactorily
when hopper feet


## Pupe Scotch

 Shorthorns yy Lin opraxira yoz yith mip.


W. G. Pettit es Jons, Freemman, Ont.
BHOLIHORNS
 CLYDESDALES.

## 

 JABe MaARTHUR, Gobla's, Ont Clover Lon Stock Farim scotel stionthonys Superior broelling and falividect azollano pome from imp ilpe neiderm. Vition mote n. H. RElld. pINE RIVEn, óntamo. E. defis \& 30n, roup uro
DON JERSEY HERD

 D. DUNOAN, - Don, Ont. Duncan Bfa., on Oanadian Northern Rallroed,
Pline Ridge Jomeeye For mio Mome ohoiee youns bulle, bred in the verrohote
 For Mieh erove jeinsers amp ronksuines.

 Brampton Jersey fierd For molo: 10 balle.



READ THIS ! We are offiring a bull 14 months old woighing 1,0000 Ibd. for 875
 Ridgedale Farm Holsteins $\begin{gathered}\text { Prgesent oforer } \\ \text { ing: } \\ \text { One ever }\end{gathered}$


 Glanyood Stock Farm- Holotolip and



HILOM sTock FARM - Hotstoine



LTEDALIE HIESR: Offer on number of joung bull fif for service,
out of Reoord of Meriteows, and bired by Bery

 A HOLSTEIN BULI

a. w. olemone. ....ee. ceorso, ont Holstelns and Yorkshires
 R.b.
citioe onet
at to mate

HOLSTEINS FOR

drod by he granall-bred imp. ball, gir Howide

 nal one from uhis herd
H. E. GEORGE, Cmampton, Ont. RECORD OF MERIT HOLSTEINS



 M, Now Durham P.O. \& Sta
RIVE HOLSTEIN HERD

 Wallo

## re. Jonn Cont

 Woodville, Compbell, of Fairview Farm,Ont., advertises for sale, in this issiue, a nicely-bred registered cllydes-
dale stallion, coming three years old. He dale stallion, coming three years olid. He
is of the faimous Darnley line of breeding on his sire's side. Somewhere near $\$ 3,000$
was paid for his sire. His dam is one was paid for his sire. Hiis dam is one
of the very few granddaughters of the of the very few grandauyhters of (zene
great producer Prinee of Wales ( 673 ),
whioh made Clydersales noted the world over. This young stallion, seen by one
of our star of our stafl last season, was very favor-
ubly commented on in these columns, in ably commented on in these columns, in
June 28th issue. ${ }^{\text {an }}$.. He is a big, quality colt, with grand bone, and acts well, and should develop into n norse of more than
ordinary size. style and quality." Anyone looking for a very promising stallion
ohould, at once visit Fairview, or corre spond with Mr. Camphell.
brandon stallion show. Tarough the courtesy of the Secretary,
Dr. A. W. Bell, we have received a Dr. A. W. Bell, we have received a
marbed catalogue of the Brandon (Man.)
 and list of awards, which is as follows: Clydesdales,-Aged-1, John Graham,
Carbery, Storm King, by Hillhead Chief; Carberry, Storm King, by Hillhead Chief;
2, Macmillan, Brandor, Fiscal Policy,, by
 by Sir
Thomas;
Brandon, St Galbraith \& Son,
\& Sturdy
Royal, by Prince Sturdy Brandon, Sturdy Royal, by Prince Sturdy.
Foaled in 1903-1, Macmillan, Scottish
. Foaled in
Fancy, by Fickle Fashion ; 2 , Galbraith, Freeland, by Bancor; 3 , John Graham,
Frlat Seahm Earrand Seaha, by silver Cup. Foaled in
1904-1 Calbraith, Hazel Dean, by The 1904-1, Galbraith, Hazel Dean, by The
Dear: ${ }_{2}$ Galbraith. Sebastin, Dear, $2, \quad$ Galbraitit, Sebastian, by,
Marmion. Canadian-bred, any age-1, Marmion Canadian-bred, any age-1,
S. W. McInnis, Braehead Royal, 2 years, by Sturdy Royal; 2, Wm. Chalmers,
Rritish Commander, 22 vears, by Bobs. Rritish Commander. 2 years, by $\begin{aligned} & \text { Bobs. } \\ & \text { Hackney, any ago-1, J. B. Hogate, }\end{aligned}$
 Brandon, Langton Denmark, 6 years, by

Lancton Verforwer | I, angton Performer. $\begin{array}{l}\text { Judge, Prof. W. J. } \\ \text { Rutherford. } \\ \text { Igrivultural College, Winni- }\end{array}$ |
| :--- |

'
Messrs. R. A. \& J. A. Watt, Salem,
Unt, report a Shor, report a long list of recent sales of
followinus and Clydestales, including the
foll following more important sales:
Geo. Gier, Grand Valley
Gity Geo. Gier, Grand Valley, the bull,
Mildred's Royal, bred at Salem, and sold,
 Mr. Bristow's herd, we purchased him
back to hend our show and breading
bind herd. At Winniper he was placed forst
in his class, and reserve champion. At premium, and, later, at chicago Interna-
tional he anat won
then tional, he was placed third in a ring of
thirteen aged bulls. To Messss. A. Dunthirteen aged bulls. To Messrs. A. Dun-
can \& Son, Carluke, Royal Chief, sired by Mildred's Royal, and trom the Carp-
bell-bred cow, Imp. Crocus; to F. W Ewing, Salem, the the Crocus, to high-w
young cows, Claret Cup, Victorna stred
yom
 spur. These excellent individualas, along
with a number purchased from us last year, place his herd second to. onone for
the number it contains. To F. Lyons \& Sons, Creekbank, Btamford Lad, sirad by
Imp. Soottish Reaut and Stanford. His breeding makes him half
 discriminating buyer, took the beautiful
white bull, Advance, a most promising show-yard, propositition a most bromising bred in the
purple, his sire seink Purple, his sire being Scotish Beau, and
uis dam Mildred 4th.
The dam of Milt
 \$1,350. H. L. Mannerow, Chesleg, with
anbition to build up good cattle in their anbition to build up good cattle in their
section, purchased the two-year-old show lull, Thorntill Sailor, at a good round
liut
i, ure. Thornhill Sailor was first at
Sit Micicigan State Fair, Detroit, last veat,
und has every arpuarance of being able
 carloart from In, Mho, have purchased
Riduting Lady hope
Ridgew ouct 2nd, a Toronto and Chi-




## IF WOMEN ONLY KNEW

Thousands of women nuffer untold miser ies every day with aching backes that really have no business to ache. A woman's bact conditions in ought to be strong and ready to help her bear the burdens of life.
It is hard to do housowork with an aching baok. Hours of misery at leisure or
at work. If women only know the caune at work. If women only knew the cause. Backache oomes from sick kidneys, and what a lot
But they can't help it. If more work io put on them than they ama mend it's an to bo wondered that they got out of ordor.
Beolkache in aimply their ory for holp.

## DOAN'S KIDNEY PILLS

will help you. The 'ro helping niek, ove worked ridneyb-all over the worldmaking thom strong, haalthy and vigoroun over five months I was troubled with have beok and was unable to move withooit help. I tried all kindis of plastoro and linimonts but they were no opea. At that 1
heard toll of Doan's Kidney Pill heard toll of Doan's Kidney Pilla, nd
after I had used three-quarters of the
 Prioe 50 dents per box or throo boxer feef O., Teronte, O

RAISE CALVES WITHOUT MILR
 wom some of the eno.000 progresive forme
who have had wonderful reanter from this

"GLENARCHY" HOLSTEMIS


Greenwood Holsteins and Yorkshires

 Grove Grove Hill Holsteins Herd oongists of ifll four head, oontaininin



Evergreen Farm Holsteins is hatineaded b
 Vorit oome with larger roordi. Springhill Ayrshires


 Robt. Hunter \& Sons. Maxville, Ont. Glenhurst Ayrshires Olde te8 babli ishod

 Ayrshire Bulls Two very choioe did and from d
 SPRINGBROOK AYRSHIRES
 STEPHEN, Box 1 B3, Huntimedon, Que: Ingleside Ayrshires won more prizes in 1906

antold misorroman's back er ordinary $g$ and read
$f$ life. fife with an ach-
at leieure of $W$ the oanue xidneys, and
nore work out of or

FetBurnside Ayrshires
 the Bde of Dirg. of World'E Fnir, Bt. Louis, to the given hy largent number of prisowinning Ayrihirus at mid mexpoition. R. R. NESE, URı, HOWICK, QUEィ, PıO. AND STATION. UY SHROPSHIRES WOM THE FLOGK PhIZE AT TORONTO And have imported and home-bred RAME and EWES for sale that are of the
same stamp. All kinds of good COTSWOCDS and SHORTHORNS as well. Price always reasonable. Robent Miller, Stouffiville, Ontaplo

Ayrehirees 8 prigewinning bulle fit for
 Canadian Igente for the Orielinal McDougall's Sheep Dip a Cattie Dressing




SOUTHDOWMS Sootch Colllea. Robt. McEwon, Byron, Ont.
 hanpill SHEEP


SPLGNDID MUTTON 600 WOOL GREAT WEIGHT -rhis highly valuable Rnglush Broed of Shoes Wonderfully Early Maturity.
 passed, and for croosing purpooses with any
oticer breed unoqualled. Full information ol
UAESE RAWLENCE
Sallsbury, Engociation.


Unequalled for fine quality of both mutton and
wool, hardiness of constitution and arliness of maturity. STRIDE \& SON

Chichester, on Wednesday August 7th, 1907 8,000 Pure-lored Southdown Ewes.
450 Pure-bred southdown Ram and Ram Lambe. encluaing consignments from nearly all the

Stride of Son, Chichester, Susses, Emgland W. W. CHAPMAM,

Beoretapy, of the INational Ehees Beorotary or the Kent, or Romney and hate Eecratary of the Southdow
Bhoop
Bociety. Podicree Mive Btook Itsont Inporte,
 on cominitalion: quotat.
darose: MOWBRETY HOUSE, Morfolk B Landon, w. C. Wiralinild

sheep and Cattle Labele.
 about them now. Write to-das
for circular and emple.
F. ©. JAMES. Bowmanvilla. em
 proven themselves breeders of show have and just now, when the attention of ines of breeding parly directed along the ype, no sale has improving a dairy uch a favorable opportunity thal aiser get a foundation of heavy-milkin horthorns, as well as a dairy-bred bull end, as there date, and arrange to at
D. BROWN'S SHORTHORNS Probabiy no strain or family of Shor orns in this country are heavier o hat old Emgllsh strain as a rule, than Beauty by Sno strain tracing to Imp races to that remaik and when a her oes protiy romarkably prohic cow, it that protly nearly without argumen Shorthorn strain exists, for, besides be ing exceptionally proftable at the pail descendants of this good cow have a different times won the highest honors at is the herd of Mr. Douglas Brown Such Ayr, Ont. The foundation cow, was Eglitha 29th $=89427=$, by Duncan Stan-
ley $=16364-$ a grand dairy cow, is built on moderg type lines. She, and another bred the
same of the herd, all of which are sired by Imp. Christopher, Imp. Beauchamp, and $=42464=$, by Imp. Kinellar Stamp. Stamp Rosebud of Blènheim, by Imp. Oxford. over her pedigree, be seen by looking Snowball. All the young theauty of and under are sired by this bull years giving them a double cross of that great milking strain, among them being several one and two year old liefifers, that
for nice straight lines and quartered form, will compare favorably with most in that respect, and beat bred the same, is at the pail. In bulls, out of Eglitha 37 th , and sired year-old, heim Stamp. He is a big, growthy blenwith grand lines, heavy steak, and good whoulters, and bred as he is, any one
waty dairy-bred should be suited in him. Shorthorn bull che same is a roan, 10 months old, a
nice, thick, sappy, good-doing yon that cannot fail to develop into a granid five and six months old, that two others, promising. Anything in the herd is fory prices. Owing to his heifers now tempting ng on, the stock bull is for sale, and a right good sort he is. For a coming stock bull Mr. Brown has lately purhased Nonparcil Victor, by Imp. Noncow, Imp. Orange Rlossom Roan-Lady Princess Roval bull, Scottish Prince Krandam by Remus, by Star of Morning his is one of the gilt-edged kind, exedingly thick, wonderfully mellow, ex- in
act. a show bull. Write Mr. Brow

Aaplolurat Hort of Tawworth Swine, Bronto Turloys, Toulouse Goese, Pokih Ducke, For alo: A largo hard of Taminor



 o. Dovants, a molns, yitohell, On OROMARP mome Tam wonthe



 Weocatte hord th Temorthe and shortion.


 Mount phen ant Tamworthis and



## LLRGE EIIGLISH YORISHIRES

 Who have A Hieltod number of aholoe yount
 Gliomy Lant Barkshirives
 Sam Dolson, Alloa P 0 .
 HEOTER WHITE HOQS

mobent clanke, as cooper street, Athent on Waple Lodge Berkshires- niee thumber of shire sowns ored and ready to breed. Yorkn
stock on hond of boin sozes. Stook registored
and

Mpnoved YORKSMIRES
Oholeo joand atook from dmporto

|  |
| :---: |
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TWENTYGTVE YEARS SUCCESSEUL RECORD
$\mathrm{M}^{\text {ONEY can bay advertising ppoco, bat it can't bay }} \begin{gathered}\text { quarter century's }\end{gathered}$ Intricte moost mircculons curees of the most difficult and


 coughs, colde, bronchitit, paneumonis, consumption, rindigedion, ary



Peychine Never Pails Psychino has no Subetiturte
at All DRALBBE, Boe an mhoo a Botrle
DL. T.A. SLOCUM, Limited, 179 King St. W., Toronto


Woodstock Herrd of Large English Berishirirs



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50 Imported and camadian - bred eo Motio: :- Good as Reproant tod.
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Fairview Berkshires

 and
 SUIIIYMOUIT BERRSHIRES.
 and Joun Moleor mitton P.o.and Sta.. C.P.R. a A.T.R.
 irree and dama, very large and full D

P. O. COLLINE Bomeatlle P.O on Manotiok Sta, O.P.R.


Pat. 1030 :9.


 Aak vour implement agent for our froe
The Steel Trough \& Machine Co., TWEED, ONTARIO

OAKMALE BERKSHIRES


OUESTIONS AND ANSWERS Miscellaneous
PIGS WORRYING EACH OTHER A reader writes: "I noticod a question orne Farmer's Advocato' about pige worrying each other, and would say I have known similar cases. where pigs would
fight and kill each other. $\quad$ I think the trouble may be owing to having smoke rouble may be owing to having smom steam in the pen, and so condensed
and as to have a maddening effeot on the pigs, and that by removing this, the trouble will end
FOR QUARRELSOME PIGS.
In answer to E. C. M.s question, in issue of Feb. 21st, re hogs worrying one in the bunch, J. G. L., Wellington Co Ont., writes : "I may say I have had the same experience. My cure is-and it alt ways has proved a sure cure-to take a plow line, put a loose loop on one end
so that it will tighten when you put the loop in the hog'i mouth end pall the when you stop pulling the rope; this in to hold the hog while one man, with a
pair of wire pinchers, breaks out the pair of wire pinchers, breaks out the
front teeth close to the gums, then put couple of hog-rings in the nose at the vorrying one hoo not know the cause of they want Worrying one hog; some say they want
blood or flesh. $I$ would like to know if hogs fod at a slauighter-house attack
one of their number.,
SELECTING SHORTHORNS.
Would you kindly give instructions regand to selecting shorthorn cattle by
pedigroe ?
$I$ read about different tamilles but, to a new beginer, they are all
greek greek. I would like to start a herd on
a small scale, and would prefer the milk ing strain, but don't know how. Would you instruct me, through your paper,
 Ans.-It is only by reading the history
 different types of the breed that one can
get helppul light on this question. Whil got helppul hight on this question. While
it has always been claimed for the breed and with good grouns, that it is a dual-
purpose breed, the cows purpose breed, the cows, as a rule, being
fairly good milkers, and many of the heavy milkera, to must be admitted the in the last thirty years, or more, by Che fooths and by Cruickahank and their paid to developing the early-maturin and beef-producing than the mill producing propensinites of the
breed, with the result that, as a rule temales of those cllasses or ortraine that
have been in that tine are tor have been in that line are only moderate
milkers, although there are yet some mikers, although there are yet some
cows in most herds of theses strains that


 cows, as well as antheir style and sym
metry, and, as a rule, in herds that hat metry, and, as a rule, in herds that have
been brod mainly in the Bates line
年 temanes are bother milkers than those th
the families that have been bred main


## MILBURN'S LAXA-LIVER PILLS

 regulator of the ayatom.They gently unlook the secrotions, olony away all effote and waste mattor from tho systom, and give tone and vitality to the whole intestinal traot, curing Constipe tion, Biok Hoedsohe, Biliousnem, Dyepop eit, Coated Tongue, Foul Brenth, Jaue dico, Heartburn, and Water Brach. Mra R. S. Ogden, Woodstook, N.B., writoen "My husband and myself have used Mii. yearlu We think we cannot do without yhem. They are the only pille wo ove taka"
Price 25 cents or file bottlees for $\$ 1,00$, The T. Milburn Co, Limited, Torionta

## MONKLAND

MYorkshimes



JAS. WILEON \& SONS, FERGUS, ONT
G. T. R. and O. P. R. Long-distanos 'Thone CLINBURN

## HRD OT YORKSHITE

Winner of Elald modal throe yourn in


David Earr, Jro, Boz 3, Realicw, Ont. Glanhodson Yorkshiros,

CLEMHODSOM COMPANY, Inyrtio stallom, on Loon-distance phome at farm. Lome Fenter, Maple Grove Yorlshires


 Fairview Berkshires
 IOHN S. COWAN, Donegal P. O.,
 MAPLE LEAF High-dilase Berkhaire


Willowdale Benkshimes


 dam. Batistatilion guarranibed. J. J. WILSON. milton P.O. and sta. $\longrightarrow$ ELMFIELD YORKSHIRES Havant fow Young town trom ${ }^{4}$ to

## 

Former Champion Pugilist Says You Must Have a Good Stomach or You'll Never Have the "Punch" That Insures Victory.



 it is am fullv aatisfled with my Bolt; it is a good cure. I am atroger in much wor the Bel I thank you very
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11






## Greatest Invention $\overline{\text { M Modern Times }}$

## Does away with Wash Day Slavery

## The Dan Patch Washer

FASTEST WASHER IN THE WORLD. GREATEST OLOTHING SAVER IN THE WORLD. EASIEST WASHER IN THE WORLD.
Never teare the most delicate Fabrics and never pulls off the Buttons
Newest Washing Machine Invention-Sold on the Most Liberal Terms F-FOUR MONTHS FREE TRIAL

## 

HOUSANDS of women ruin their health every year by trying to do the family washing. In a majority of
cases she is handicapped for lack of help, and in not having a correctly built washing machine to save
her health and strength. When we first considered the manufactur have to contend with. We knew there were many cheap, worthless machines on the market, with lids would down with balance wheels, levers, gearings, cog wheels, that add so much weight to the lid as to make the handling of the machine as hard work as doing the washing. Therefore we waited till we had a mashing child of six can do the washing as easily as a person of mature years. It is constructed on entirely different lines from any other machine now known. The mechanism is concealed beneath the bottom, so there is no chance of it catching and tearing the clothes in the wash or the clothes of the operator. The Dan Patch Washer guaranteed to last for years, and to be the easiest opert workmen, and being made on scientific principles, is The "Dan Patch Washer" solves the greatest of domestic labor problems, and breaks down the barrier
between drudgery and solid comfort.

## DON'T BE A SLAUE TO THE WASH TUB

We know our machine is right and that it will more than please you, and to prove our statements we will send you one on four months trial without your depositing the money with some bank, without your investing your own home you can return it and we will credit your account in full, and you can keep the free goods test in you. Is this not an easy way to obtain the highest class, simplest and fastest washing machine on the market? YOU ARE SOLE JUDGE OF RESULTS
Read the following offer carefully and when you decide to accept it cut out and mail to us, As to our
That
INTERNATIONAL STOCK FoOD OO T. Toronto, Canada
 machine or not.

ONE DAN PATCH WASHER (Regular Retall Price) @) $\$ 14.00$



$\qquad$ Purchase

$\left\{\begin{array}{l}\text { or Our reforence is the Imperiai Bank } \\ \text { of Canada. }\end{array}\right.$
Town
I GIVE AS REFERENCE
Dealor
if not convenient to pay in foulr monthi we wille give you an extension of time on request
Don't Miss This Wonderful Opportunity. WRITE TO-DAY SURE.


QUESTIONS AND ANSWERS Miscellaneous.
PROBABLY POOR PAINT I painted my house white; after a sion
time, it turned a muddy color. Explain Ans.-We could only guess at the calu
but it was nrobably a poor qualit., paint. SMOKING MEAT. 1. As regards smoking hams, would you
advise the burning of corncobs
preference to preference to an ordinary wood fire? 2. I am puttin, a brick chimney into
my house and thought of building a sor
of box in it. of box in it, for the purpose of smoking
hams and loacon. Can you advise me how
such should be done? Would such such should be done? Would such a contrivance affect the draft to any marked
degree? 3. Does bacon or ham spoil by being,
frozen after it has been through the pickling process ", Can you surgest any practical way
4. for making ice at home, say, in a box
2 feet by 6 feet square, sides bolted to gether so as to come apart? Would such
a device answer ?
W. R. W Libby, of Chicago, uses green birch aright, building of a small combinat rather, the smoke-house. Our objections to the plan you propose are that draft might be
seriously checked, that danger seriously checked, that danger of fire
would be somewhat increased, would be somewhat increased, and that
smoke would at times be so warm as to cause meat to drip grease.
3 .
3. It will not be good for it, but it
will scarcely freeze, except in extreme 4. We think the plan you suggest
would tre quite water, night niter night, as much as ;
would frece solid, and when box is full raise and reveat.t, The when box is full,
tedious, howess would be to get out in summer, so that if you can
get any to cut within three or four miles. able to do so.
FLAXSEED FOR HORSES-TOMATO CULTURE
for $\$ 2.50$ per mood cedar shingles here'
the weather will laid 5 inches
the weal any of the fifferent kinds of roofing, ad-
vertised vertised in ... The Farmer's Advocate."
last longer and come cheaper 2. I wish to feed soine flaxseed to
horses. It is yrses. It is hard to get here. Would
yround oil cake do as well? How much fed, and how at once? How is raw should be given at
once? 3. Would you toll how to organize a
joint stoch comirany to build a telephone
line 4. What makers tomatoes rot brfore they are bipe beginning at the stem:
r'leuse give an outline of tomato culture.
$\qquad$
$\qquad$
$\qquad$
 bil cabe. thouph a whollasould be boiled
 the dose by the effect. Half a cupfula a
$\qquad$
$\qquad$


[^0]:    Secretary Clydesdale Horse Association of Canada.

[^1]:    The implements and horses will be sold the first day. The cattle on the second

