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OCTOBER 10, 1912
THE FARMER'S ADVOĊATE

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Vol. XLVII.

## EDITORIAL.

A folder boosting the National Dairy Show,
of Chicago, sets forth that the dairy business in of Chicago, sets forth that the dairy business in $\Leftrightarrow$

It is satisfactory to have the letter from President John G. Kent, of the Canadian National Exhibition, asseverating that upon securing the Garrison Common the Directorate were ready and anxious to provide better live-stock stables and
a judging arena. a judging arena.

The large cities in the West are asking for boxed apples, remarked an Ontario operator lately returned from a Western trip. The city man without a good place to store fruit wants to buy
it. in small quantity, he explained, whereas the farmer customer of the smaller places prefers take home a barrel.

It is queer that the Ontario Hydro-Electric Commission should take such pains to operate its farm-power exhibit so strictly on the quiet. The
Farmer's Advocate made special efforts to an nounce its itinerary in advance, but could secure no definite or final list of places and dates. Even to postponement and uncertainty nearly missed owing be held, and the spectators present were would fraction of those who would have been on hand had the affair been properly advertised.

Professional educationists have been apprehensive lest in the attempt to reform education to meet the needs of the times personal culture of
the individual should be subordinated to utilitarlan or economic ends.. Were culture likely to be sacrificed by devoting a measure of attention to apathy and opposition would be well justified, but experience proves the contrary. Christ was carpenter, and a large proportion of all the intellectual giants of the ages have been reared in close touch with nature, many of them being
trained of hand as aell as well-balanced education cannot but make for personal culture of the highest order.

Unless Ontario wakes up she is going to be cleaned right out of the Western fruit market,
remarked Lewis Jones, an apple buyer of St. remarked Lewis Jones, an apple buyer of St. week. There was a great kick against last year's fruit from this Province, he said. Our appressed. They seem to bruise more easily, too, than fruit from the Western States. In a recent trip covering fifty Prairie towns and cities, inCluding Winnipeg, Brandon and Regina, he saw was fair, the other culls. Pacific Coast fruit, on the other hand, is always as perfect as waxwork and reaches the consumer in prime condition. Good culture, thinning and care in picking and
packing must account for the result. There must be some exceptions to these strictures on Eastern apples, for several co-operative associations and Certain individual growers are sending good fruit
to the West, but applying to the general output to the West, but applying to the general output

LONDON, ONTARIO, OCTOBER 10, 1912

What Education Means.
The best definition of education we have ever
heard comes directly from the original Latin deri heard comes directly from the original Latin deri-
vation of the word-o (out of) and duco (I lead). really signifies a drawing-out or development of the faculties, and the broadest kind of education is that which develons its pupind of education is tions. It is a perversion of the the most direc to assume that it applies only to mental ties. It applies equally to the manual, the moral and the artistic. It is a common and egregious error to suppose that the great purpose of it is to acquire knowledge. Knowledge is inevitably and very desirably obtained in the course of education, but the acquisition of khowledge is not education, except in so far as it trains the faculties. Knowledge is a good thing to have, but, contains far mor points out, the Encyclopedia can ever hope to master knowledge than any man portant than knowledge. Training is more imto suppose that education and schooling are synonymous terms. A person may ho highly schooled but poorly educated; or, on the other hand, may be broadly educated without ever having been near a school. Totally unlettered men may be found who are more broadly and more highly educated than some holders of university degrees. Intellectual crate-feeding does not produce educated men. Not a few who undergo that process emerge little better than pedantic fools. tion, and education for broter

## One-sided Education.

The conception designated in the foregoing paragraph has brought advanced thinkers all well-balanced education could be accuired from the study of books alone. Their attention has also been pointed along this same direction of ento depoput proportion of the cleverest pupils, giving a largo ward professional life whether incti mpetus to turally in that direction or not class farmer, and many a first-class mechanic, but especially, we repeat, many a first-class farmer has been thus spoiled to make a third-class teacher, doctor or lawyer. The stubborn fact must be faced that education as we have known it in the past has engendered a pronounced distaste for manual labor and a preference for sedentary employment. Why
Consider the
have alwa the case of a farm boy whose parents have always bewailed their hard lot and hoped The boy himself has doutloss harm. tasteful though wholesome experience work when he wanted to play Probably his work was never made interesting by any scientis insight, any sign of progress, or anything except hard, hopeless grinding toil. The real interest of farm work and farm life has never been unfolder to him. He brings to school a barren forbidding impression of farm life.
roduces hat does the school do for him? It introduces him at once into a world of literature and science and books, a world of learning, opening the door to new employment providing he be he highough pursue his studies on through the higns relatos to the life he leacely anything he examples in the arithmetic are nearly all drawn
from such crafts as carpet-laying paper-hanging and so on. One would think he could learn to calculate the capacity of cylinders as well by figuring on silos as on tubes, but the text-book auspiration. Tquite innocent of any such happy insons referring to plant and animal lifeo to rural conditions of any kind. The geography is not much better, while the history lays precious little emphasis on agricultural development. So all through; the whole bent of the curriculum in away from the practical affairs of farm life and owards the academic and the sedentary. The endency is accentuated in most cases by the eacher, who brings to her school an impression that the farm is a good place for all the clever children to get away from if possible. So she encourages the brightest if them to secure an edufarmer. The seed thus sown falls usually upon farmer. The seed thus sown falls usually upon the farm. And that is' where rural directed from commences. The members of The Farmer's Advocate stafl were all educated in country schools and not one of them remembers ever being encouraged by his teacher to educate himself especially for farm life. Whenever appeal was made to ámbition it was to get an education and "do better" than his parents. Yet statesmen and philosophers go up and down the country extolling the great occupation of agriculture, maintaining that it is the basis of the country's prosperity, urging the ine opportunities it presents and trying to persuade people to get back to the land. We preach in one direction and educate in
another.' Surely there is a screw loose somewhere. Either the preaching is humbug or the education irrational. We maintain the system of education is at fault. It is unbalanced because it fails to develop the manual, the pragmatic, the capacity to do things. It is also unbalanced because by direct and indirect means it turns the child's interest and attention away from the best. most wholesome, most interesting occupation of all. It fails to take advantage as it should of his natural interest in growing things. Our education is too bookish in method and therefore too academic in tendency.

Well Balanced Education.
ers is at this point that many of our reformjuis have fallen down. They see the defect and Jump to the conclusion that we must remedy it We must to agriculture in the public schools. tried must did nothing of the kind. That has been le and not work. It defeated its purpose. subject i business to teach agriculture as a ary ones a ion to drath ing or any ther armber first and always that the education should he to develop or train the child in character as well as in mental and manual capacity. Education must never be prostituted to purely economic or utilitarian purposes. What we should do is to eliminate the prejudice against agriculture that is created by the present system, giving the child a broad, well-balanced schooling that shall train hands as well as head, inculcate the true dignity of labor and open his eyes incidentally to the real interest and pleasure of scientific agriculture. Then the boy with a na-
the Farmers Advocate
and HOME Magazine THE LEADING AGRICULTURAL JOURNAL
IN THE DOMTNION. IN THE DOMINION. PUBLISHED WEEKLY BY
THE WILLIAM WELD COMPANY
JOHN WEld, MANAGER.
 Address-THE FARMER'S ADVOCATE,

London, Canad
be encouraged to choose farming as a life work The born mechanic will become a mechanic and the child with a natural predilection for law or
medicine or pedagogy may still become a lawyer a doctor or a teacher. We must exterminate root and branch the idea that farming needs no
brains, and permeate the school instead with the brains, and permeate the school instead with the
idea that it is not the degree but the nature of idea that it is not the degree but the nature of
a man's ability that should determine his life work. The thing to do is to relate rural education more closely and sympathetically to rural
life by means of school life by means of school gardening and nature
study and by recasting the text books so as to study and by recasting the text books so as to
introduce agricultural examples-and plenty of rural life in the readers, morticles pertaining to history and geography and drawing and so all through.
We stoutly maintain that so far from subordinating education to economic ends these
changes will improve it in the fundamental spects of building character and developing brain power. To conclude, let us repeat a paragraph
from a former editorial which was quoted at the time with hearty approval by an American exchange. We can phrase the point no better today.
Our school-teaching has been too abstract for
maximum officiency from maximum efficiency from a pedagogical stand-
point. There is nothin pecially living things, to interest a child. Let the juvenile mind study, for instance, the germinating seed, and, as the embryo plant unfolds, the
child's mind will unfold with it in the most tural way. Thus shall we educate our youth along lines that will be continued into old age, conducing not only to educational efficiency, but to the training of an alert, informed, masterful
people, who will raise the plane of agriculture people, who will raise the plane of agriculture,
the plane of industry, and the plane of character and citizenship.

Wages the Last Charge Pursuing the chain of thought suggested by the Land Out of Reach," one arrives at Putting tion-a partial explanation at least-of the analong labor problem, which exists alike the age and poor farms; in prosperous and unprosperous communities; on thousand-dollar fruit land and on eighty-dollar soil devoted to general farming. Always the problem is to secure enough help at wages which will leave a profit over cost of promore remunerative introduction of some new and business more profitable for a time wages go up a little, help is attracted to the vicinity and the labor problem may be less acute for a time, but fnally it resolves itself into the same old stubborn dificuly. Why is this?
zance land values bo up the minute profits ad-- yance land values go up also? The increased earning power of an acre is capitalized in the form
of enhanced prices for farms, and this entails the necessity of meeting heavier interest entails the charges. The necessity bears most sternly on renters and proprietors working with borrowed capital, but does not exempt owners who are out of debt, for these, too, desire, if possible, to make interest on the nominal values of their holdings. Now, this interest or rental charge is fixed when one buys or rents a farm. It is inexorable ; it must be met before profit can be claimed. It can
not be reduced, but, not be redaced, but, on the other hand, is in creased every time additional facilities are pur-
chased to lighten labor, or for any chased to lighten labor, or for any other purpose.
The same holds true of taxes and insirane The same holds true of taxes and insurance. They
are fixed charges and must be met. are fixed charges and must be met. One can cut it down for a time by doin elastic work himself, or by getting more out of his men It is open to the manager to try each time ke engages a man, to get him cheaper, or at least to too high. Nhis item of expenditure from rising try. We Note that we say it is open to him to gets too scarce sot he can succeed. When help without. The point we are trying to make is that labor is the one factor in the cost of produc-
tion that is to a degree elastic tion that is to a degree elastic. It is the only side the manager's annual controt. Hence that is where the squeeze comes. The hard-fought proprietor, seeking to preserve a little reward for his
own efforts, tries to keep down this factor by hiring cheaply, land because he does so is often called "close" or "mean." We do not for a em the wrong way Instead of attempting to make labor accomplish more by labor-saving methods, they make the problem doubly hard for themselves by following out-of-date practices. Grant this, but the fact remains that there is an eventual limit to progress on that line, and when that limit is approached by the, generality of able degree pat will again be felt, to a consideracutely as at all events, though perhaps not so acncely as at present. Is there not something arrays labor and capital in this order with the pinch in the cost of production always on labor?
How can interest charges bo kept

## Mr. Kent's Questions.

 a about which I I amm absolutely bestion above another
it is is and at sea it is the question of education. I do not mind
in the least vetting into an argument with bank
ers and politicing
 a litt the child T am more helpless than the child himself. Nothing that I have learned or observed
hols. me particle towards solving the problems
of childhoor. Ahont and is that our educational system is wrona from tor tiace T mave al aways ave nothing to ofler in in its
tited the subjiect. When it comes to the children, about all T feel capahen
of doing is to love them and kiss their bumps
when they pet hurt When Mry get hurti the Editor of wThe Fump


I have no settled opinions. I am merely groping but as yet I have found no hint of how it is to be attained. In my experience of life I have met
men who had practically no school education yet they had all that I would wish a system education to give to me or to my children. have also met men who have had every advantage I found them of no more interest than a deres, and trained seals. They could perform all kinds mental gymnastics, and yet they were absolutely out of touch with, the work and joys and sorrows privilege to live. Education should enable our understand, to do and to enjoy. And this under standing and doing and enjoying should not b
confined to a petty round of duties that will confined to a petty round of duties that will en-
able us to slink through the world with as litn effort as possible. The truly educated man little claims with "Terence, "Nothing that is human ex alien to me." He is interested in everything, and at the same time so well-poised that nothing can about the purpose of education being to fit a man for his particular niche in the scheme of things. he mid there is no niche big enough to even if fully-developed man. There is a noble rebellion against the popular conception of a good citizen
If his chief good and market of his time Sure, he that made us with such large discourse Looking before and after, gave us not That capability and god-like reason

In that passage Shakespeare outlined the highest purpose of education. It is to so develop a bilities, and a man so developed is worthy of his bewildering eulogy :

What a piece of work is man! How noble in reason! How infinite in faculty ! In form and moving how express and admirable! In action god ! The beauty of the world! The paragon of

At this point I wish to quote with all rever"For of such is the kingdom of Heaven". child o think that enfranchised spirits will have an opportunity to grow as the children grow before we them our ideas of what they and to impouse on Did you ever stop to think how much a child learns in its first burst of mental growth? It is guages besides getting an understanding of lanobjects and actions by which it is surrounded the fore it is five years of age. If this developmen learn more than unchecked the dullest child could alh before it reached maturity. $\begin{aligned} & \text { professor of them } \\ & \text { Coleridge seemed }\end{aligned}$ tion when he the secret of this spontaneous educanecessity it feels." ' Is child learns because of the necessity it feels." Is there no way by which this
feeling of necessity can be made to endure ? Unde our present system, instead of lotting the child develop under the pressure of the necessity it feels,
we imprison it in a schoolroom we imprison it in a schoolroom and try to shapes,
it according to to get down to the man who is said to be or the bottom of our system-that John Seath feels. and the child is forced to is instantly arrested, fires of competitive examinations. It is all
wrong, hideously wrong Now let us stop for a moment and grope for
that elusive thing Education. What is it ?
 knowledge. The most learned man in the world
does not know as much or know it as accurately
as the Century Fncycloper as the Century Encycloperia at my elbow. Knowledge seems to be a commodity that can be stored
away in books where any intelligent man it when heoks needs it. iny intelligent man can get
growth which enables a mation seems to be a rowth which enables a man to use knowledge
But how are we geniuses have ween able to trane men grow? Few
tual growth, and yet it transmit their intellecthat genuises are men who have been stimulated have no arowth by some impulse of which we fipuratively, perhans human beings are like case fall in such conditions that they burst their shome and expand in rare atmosphere burst their shells
never know. They learned to know and feel because, as Shelley have message "'must ever remain to Epipsychidion, their a defect of a common organ of perprehensible from deac of which it treats." of perception of the
Tkelv to como this growth is as ikel, to which it treats." This growth is as
philosonpler. and a day-la,borer as to the greates Itell how or why, he ever after looks on life


THE FARMER'S ADVOCATE:
schools or colleges. Perhaps the confusion that .
 come by a growth which is beyond our compre- but is dug out with a spade in pieces about the hension.
only part of our education conclusion, that the that would be worth to keep it together. When dug, the bricks are having, cannot be taught by any means as yet
known. The struggle known. The struggle of our educators to devise a system of education that will give to our
children a wisdom and culture than even the cators lack, kas defeated everything. If they would stop trying to give an impossible education, our schools might then become training in-
stitutions that would be of immense the world. And this brings me back to where in the deal briefly with the questions asked by Mre. Kent.

If our public schools were regarded simply as
training schools that would help fraining their apparent work in.life, they fit children complish much more than they do now, and they would not be causing so much distress by they crowding the professions, and causing the farms to be deserted. The country schools would aim
to teach boys and girls to get the most out of
farm life, and the teachers would
 develop that capacity. In the towns and cities
there would be technical schools to teach the arts naturally turn to earn their livelihoods, and matter what a child showed a bent for, the neccessary school to give effective help, could be
found somewhere.
Of course if our schhols by any means promote the growth that I could most people will agree constitutes real education they should by all means be devoted to that purpese, brought down to earth and turned into train. ing schools that will help us to earn our livings in the ways that are necessary to us while living
within our shells. If we ever within our shells. If we ever break out of our
shells, and are fitted for that higher eduction that will enable us to commune with the geniuses and the great of the world, we will not lack the
means to get that culture means to get that culture and education. And our school system should help us to do it instead of forcing on us a system of culture that is still imperfectly understood. Tennyson says :
"Knowledge comes, but Wisdom lingers

While wisd comes, but Wisdom lingers. schools give us the knowledge we need to do the duties nearest to hand, and that would mean giving to country boys and girls an education that would adapt them more and more to farm gested in Mr. Kent's questions and his answers to them. And if among the country children
there are some who are better fitted for there are some who are better fitted for other ocget in touch with some other part of our school machinery, which will other part of our school much more fully than is possible under our present system, which is too general in its scope to
be useful for any particular occupation. And perhaps if we are trained to do the little every-
day things, more of us will break from shells and learn the greater things. Who know our

Ipeland as Seen Through Canadian Spectacles.
Having only a limited time at my disposal I
had to make the most of every minute in Ireland. I travelled about 300 miles on the railway, a number of residents. The country through which T passed consisted mainly of valleys and hills, the valley generally containing a bog in the beautiful flower. Very large quantities of peat
are dug from these bogs, which is used as fuel by put up in small open piles to to try, bricks are
sund when sufficiently cured, they are hauled in donkey or and protected from the rain. good fuel. Many of the crofters do make very Stoves or even grates, but are content with the old, large, open fireplace and wide chimney which is
used for smoking the ham said to make better hats. Fire from peat is also other kind of fuel. Ir ish farmers could be divided any to two classes, viz., the large farmers who make specialty of raising hunting horses and beef cattle goats and pigs, and geese and other poultry and sometimes two or three cows, but no horses The large farmers of the hanting horse and beef are generally moving on, but about them, and the increased wages and scarcity owing mainly to


Early Training of the Colt is Good Policy. as they ought, but have large portions of their arms in permanent pasture on which large num very few abattoirs in Ireland all but as there are are held up now on account of the cattle shipment disease, and the beef farmers are at their wits' to know what to do with their beef cattle. The profitable one, as Ireland has deservedly is a very reputation for that class of horses, and buyers go there from all parts of the world and pay good prices for the right stamp. Many of these farmpassed a few years ago, making provision for the purchase of the farm by the tenant, and the tenants are becoming proprietors in many inBut the donkey-and-goat farmer is an entirely
But different man. He and his formefathers have been on their holdings for many generations, and are conservatives of the most conservative type. They generally have no lease and have no incentive to make any improvements, because if they
do, the land agent will be demanding an increase of rent. The houses are generally small with low ceilings and thatch ronfs, and many of them and-goat stable is attached to the donkey-cowhouse or at best, so near to the house, as to be very much at variance with modern laws of saniwhat a Canadian might justly call laid out on horn hedges, quite often on a curve, very minch as if the planter had been trying to imitate the curve of a dog's hind leg, and many of the fields are V-shaped; in fact you will find them all sorts
and shapes. Even although the
Erms there seemed to be a large proportion in hay and although it was the end of August when I visited the country, there was very much hay out in the swath and in the cock, on account of the long had a very great amount of rain, even in ordinary years, and that the climate is very uncertain. In some parts that I passed through, the farmers. In threshed, the fibre is put in a small pond for a short time, and then spread out in the fields to dry. On one fine day I saw different groups of formers out in the fields threshing rye grass with the
flails to obtain the seed. Each of the crofter has a potato patch, some of them in beds like old-fashioned onion beds. Many have a small
field of oats, and field of oats, and another of barley, and a few
a small piece of wheat. I wwas told that a small piece of wheat. I was told that the
donkeys are worth from $£ 2$ 10s, up to $£ 6$, the best stamp of an animal, and the goats from 10s up. I never saw so many donkeys and goats in all my life, as I saw in the three days I was
in Ireland. I met a lady on the train who told me that after the death of her husband she weld home to keep house for her aged parents, and in order to promote their comfort, she wanted to introduce an American stove, but her father
positively refused to allow it to be taken into the house, the old open fireplace was good enoing
for him. Wre, in Canada are trained up in the for him. We, in Canada are trained up in the Way of introducing and adopting the best methods,
the methods that will yield the greatest return the methods that will yield the greatest return
for the least outlay, and it is hard for us to understand, much less sympathize with, the conservacrism of the in his nature for. But it has been ingrained in his nature for many generations, and
it will take almost a miracle to get it out him. Much of the land is also wet, and would well repay the expense of being tile-drained. In fact if I owned a piece of that country, I would
first try to burn up the hedges, and if I failed in that, I would hire a traction engine and ootsong chain and pull the hedge out by the wards divide it off in drain the land, and afterwoven wire fences straight and parallel and mone angles with one another, and I believe the good return

I visited several creameries, and interviewed the farmers' power separator cals and separate it with a large skimming stations at different points in seaveral directions at a distance from the creamery, where milk is separated, and the cream hauled to the creamery where it is churned into butter. The ating plant, and paid for the milk by the result of the test, but strange to say they were result ketting about 1s 1 d to 1 s 2 d per mb . for their pound prints, and after the cost was made into deducted, the farmer was only receiving from was pence to 5 pence per gallon for his milik, which, I think, is scarcelyr as much per pound as our Canadian farmers got for the milk they sent to farmer has both higher rents and higher taxes. The butter makers had several girls making the eries hought in meals and feeding of the creameries hought in meals and feeding stuffs, and artithe patrons. The creameries were owned and run

(he Canadian National Exhibition, 1912. Imported and exhibited hy String of Percherons.
stallion, two years; Rothorne, stallion, two years; Jovial, stallion, three years; Kossuth, stallion, two years; Icaque, mare, four years. Karnaval,
by co-operative companies of farmers. I was the argument to the outside of the skull with a
told that the supply of milk was considerably re- black-thorn told that the supply of milk was considerably
duced of late years, and I don't wonder at it, as the Irish farmer ought to get more than a halfpenny per pound for his milk
There is a great agitation going on in Ireland for sears since Ireland was formally brought under British rule, at which time, the Parliament House in Dublin was closed up, and since then the British Parliament islation required for Ireland. But the Irish peo-
ple say that the British Parliament has too much work to do, and that they do not understand the requirements of Ireland, consequently Irish interests are very much neglected. There is the Orange north, who are very much opposed to Home Rule largely on the ground that they think, as the majority of the people in Ireland are Roman Catholics, if Home Rule were carried it would the secretary of one of the largest Agricultural Societies in Ireland, I found out that there was an unwritten law which was strietly observed by both parties, that the president of the Society protestant the next, and the secretary told me that this rule worked out very harmoniously, and that there was no friction. What was the Irish Parliament House is now used as banking offices but many of the people look eagerly forward to
the time when it will be again occupied as their own Parliament House, and they think that then their troubles will be ended. Of course, I am not possessed of enough information to say whether this I ame sure of, that the Irish farmers cannot be made rich, happy, and prosperous by an act of parliament, even if it is an Irish parliament, but each farmer will have to get a hustle on, and get those large winding hedges out of the and cultivate the ground in a thorough and up-todate manner, and if this were done I have no
doubt that Ireland could support nearly double dount that Ireland could support nearly double course wise legislation by providing for fixity of tenure, granting loans to be expended on land improvement, and such like measures would greatly help but the population is made up of units and any real improvement. Of course an objection may be raised to the removal of the thorn hedges, in that it would do away with the industry in the making of black thorn walking sticks and the "shillelah" with which the Trishmen used to argument, I would say that in this advanced aga we think that it is much better to appeal to th cray matter inside the skull, rather than to apply

Thack-thorn shillelah tivating more of their give as excuses for not culweather, the scarcity of help and the increase in wages. But if they wish to retain their men they must give them as good wages as they can get in young Irishmen go over to England, and make more money than they could do in Ireland, sid they can't be blamed for going wherever they can do the best. That is what the farmers do themselves
market.
Land can be boucht in Treland from $£ 20$ to £30 per acre; and I believe that an intelligent farmer with sufficient capital, can go there ar,d buy land, and tile-drain and remodel the farm an make it pay, by adopting advanced inethods.

## HORSES.

Hard ground cannot be
of sore shoulders this fall.

When stabling time comes give the colts the box stalls. Brood mares are also much better box stalls.
"Better late than never," applies very well to breeding the mare. A fall colt has its advantages as well as disadvantages.

Don't forget when taking the horse off the pasture that bran is one of the best and most use ul dry feeds for horses, and that because it has mild laxative powers it is especially useful for brood mares, and because of its high protein conhorses and growing colts requiring of young horses and growing
muscle-forming rations.

If you have a horse to sell, weigh carefully the increased price obtainable in the spring before the posing of him. Some shrewd horsemen are successful buying horses in the fall and selling in the spring. If there is money in feeding a horse advantage to the farmer to feed his own horse until spring. Unless a hïgh price is obtained, fall is not the time to sell, especially when feed is plentiful.

# Will the Fall Colt Pay? 

From time to time the Farmer's Advocate has published articles from practical horsemen relatthe pros and cons of spring and fall colts and the cost of raising the same. Colt-rearing is one of The drast important branches of our agricultur the chief sorse is, and will long continue to be, life of usefulness is short at thest, it is necessary that a steady and persistent effort be kept up to maintain and increase the production of good This whether they be foaled in fall or spring. Will the fall colt pay? There are advantages ing autumn foals as compared with those dreded in spring or early summer and there are many conditions which favor the fall foal to such an extent as to leave no hesitancy as to its being a paying proposition

ADVANTAGES OF FALL COLTS
With horses in great demand at high prices, a Here is a reason which should prompt many whose mares have not conceived earlier in the season to breed them again later on that an entire year's usefulness as a breeder be not lost. select two months in the spring and call them to breeding season is no reason why a mare should not be bred later on, particularly if she fails to hold to the earlier service. A fall colt is surely Under the present
a two months' rush seasom in May and June many stallions are very much overworked. Covarin several mares a day continuously throughout this three hours must have a days one every two or reproductive powers of the horse. There is fte very little wonder that so many mares fail to that as many as conditions and the wonder is conditions. Some noted the service under these for best results the stallion should hot said that than one or at most two mares a day, but more ther this be true or not, few horsemen adhere to upon the range are said made of breeding horses ment, however, it being held that out the state he natural state never serves more than one mar day and that during the evening. Here is a age. The mare is bred whould have an advantoverworked and consequently she should is not soly to conceive, and in the event of her doing so should produce a better foal.
of the essential points has been considered one seems to be necessary in foal production. It some work in order to get sufficient of this do most cases if she is turned loose in the yard or colt which is dropped ind very little. With the the average farm puts in the spring the mare on idleness and is seldom if ever in harness. She is turued out for exercise, but frequently does not leave the stable door very far. After months of
rest she becomes very heavy time is compelled to do wis work, for a brood mare must and should earn her keep by work done. The spring's work is about he is often quite soft, farm operations. The ground light load and the the cultivator or disk is no besides, the laws of nature, which demand and, seeding be done as soon as the ground works well perative. Here is results, make rapid work imwhich is to he a spring colt mare and the foetus are. If the colt is foaled before seeding the the mare has had special work for winter exerno condition for such wark and the mare is in ioaling, and if made to do it her milk flow is like-
ly to be impared The colt foaled in the fall colt's growth injured. The colt foaled in the fall escapes much of this
drawback. On most farms in this country labor is the ing requires that some extra present. Colt-rearto both mare and foal before, during, and given parturition. The rush of work comes in the may be stolen from the regular when little time operations to be given to the care of of farm During the winter months there is time on colt. darms to handle the colt while he is yet with his with care. Such hroken to lead and be handled colt foaled in the spring when other work the not permit. It is important that the colt's edu-


october 10, 1912
in the autumn goes on grass the next spring
weaning time in as better weaning time in a better condition to make the
best use of the grass, and at the same time re-
ceive less of a sethe ceive less of a setback from weaning than the
spring colt which at weaning goes These are some of the advantages put forward for
the fall colt. disadvantages.
Almost everything that has a good side also has one of less attraction. Fall colts have their dis-
advantages, and one of the first is the dificulty advantages, and one of the first is the difficulty
experienced in getting mares to breed son so as to drop their colts at the most a spoa-
tune time in the young mares, fail to shown mares, particularl the late autumn, and with periods of oestrum in
often not well mhich do it is altogether. Again, nature seems to be "missed spring as the natural rutting and foaling decreed the mare, and "bucking" against nature is not the easiest of tasks. So it is that much difficulty is in the fall, and this is one of thares with foal backs to the whole undertaking
ricts is that the mare ouner hage in many dis has during good stallions in the autumn that he nd June whe recognized breeding season of May throughout the country. Not all districts in this lass sires favored with a number of really high of the stallions taken the season is over and al helly in securing the service be a little more diffiand a good "mare should never be bred to an inferior horse, spring or fall.
always so for the an advantage to the colt is not the mare a chance to be on pasture during the tion which is ae the foetus, a condipelled to suckle the colt indry the mare is comunnatural condition and one hard feed, certainly an If plenty of roots and bran are fed the system, grass fay be practically overcome, but it takes the brood mare matin more dificuilt to maintain
 brood mares.
Size counts for much in colts especially of the
draft breeds. reckoning age from have become accustomed to
coltes spring of the year of the and exhibition managements almost invariably, lists accordingly. Judges lay prepare their prizeuntil the colt is fully matured, if foaled in the fall, he is at a disadvantage in the show ring and on the market, where ages go by seasons, not by
months.
importauestion of housing may or may not be different accommodation for the mare more and
colt. and the colt, and the one whose colt is weaned. In a latter case two single stalls may be provided, al-
though a box stall is advisabale for the colt, while
in the former case a box stall is a necessity sides tore fall case a a ox stall is a necessity. Be-
the spring colt natter now when nearly is not a very important With capacious and warm stables, but it may be
when the mare shóuld foal.
These are a few of the arguments but still the
question is unanswered, and the only way to answer it satisfactorily is for the breeder to weigh his To have the bulk of the colts foiled in the fall. instead of the spring, is a change which is not hikely to occur. The spring is generally the best
time for most colts have failed to conceive to earlier services and where special conditions of work, feed and space should be no hesitancy in breeding them, as the no bearing on the congenital or herditary charactors of the progeny
be dropped there that the autumn foal should circumstances warrant different dates of bifferent Fircurstances warrant different dates of breeding.
weeks ofage conditions perhaps the last two Weeks of October or the first two in November
after the heavy fall work is about completed, are as good as any. Foaled at this time the colt is seasons, for the mare to be at least partially fitted for springe's work. If foaling takes place
too late in the season, the weather is often to Cold and there is danger of loss from this cause, coll can safely and probably he let out on fine days. It should he late enough to eecane hot wreather

THE FARMER'S ADVOCATE.

## The British Hopse and the

 Colonies.it may interest to some of our horsemen from the Mothe many horses Canada imports number imported by cultural Gazette gives the following figures from the British Board of Acriculturg agures from garding horses sent to British possessions
Australia took 233, of which total 118 wer aggrins, and she paid $£ 162$ per head for the 430 gate total. Canada took 1,978 all told, the lot were assessal 152 mares and 396 geldings the average value of £61. To the East Indies we £141, head, worth £ 54,651 , an aggregate of stallions, 13 mares and 2 geldings sent-i.e., 18 was $£ 5,879$, or $£ 178$ apiece. To the Cir value ${ }_{\mathbf{E} 22,199}$ Hope were dispatched 203 horses, worth £87 apiece for 190 head; to of £100; to Natal, £97 apiece for 19 head; and to the Transvaal average of $£ 110$ for 39 head. Seven horses have ing a value of $£ 174$ each Zealand figure of $£ 178$ are the highest the New paid by the colonies. Even Cyprus has paid an Nerage of £50, Gambia £59, Malta £34, and sions the 3,246 horses exported were worth posses250 , or an average value per head of £83 Sure is these are facts positive that the horse industry what a means dead. These statistics also prove what a vital force in colonial trade horse ex-
portation really is.


Gainford Marquis $=83755=$ (imp.)
wo-year-old Shorthorn bull. First in class and grand
breed, 1912, at leading shows in Canada. Owned
by R. W. Caswell, Saskatoon, Sask.

## Cost of Keeping Horses.

The truth of the statement that the methods anding and tae stable accommodations have o keep a by investigation good condition has been proven mal-husbandry ture, Ohio State University tions have bear investiga1,0.0 head of horses have been included. It wes found that the concerns with the poorest accom-
modations for their horses and where the least care was given were paying out the largest amount for feed. The average cost of keeping trary to popular belief, keavy express horses are fed for nearly two and a half cents less than light
driving horses. The lowest cost was $\$ 89.02$ per year, in the case of an underfed animal, and the for show. One noticeable fact was the absence of variety in the ration, the principal roughage being timothy hay the year round, and it was
common to find this feed given in excess. Corn and oats constituted the principal excess. Corn one instance a saving of $\$ 11.15$ per animal, or a
yearly saving of $\$ 669$, was brought about by the yuse of faving of $\$ 669$, was hroumht ahout by the

## LIVE STOCK.

Dry quarters are necessary for every class farm animals, but more so with sheep than with
others. Dampness, no matter what the sowree should be carefully avoided.

With proper feeding upon skim milk and plenty of concentrates and roughage, a thrifty call for
the first four or five months should gain from 1.5 the first four or five months should gain from 1.5
to 2 pounds daily.
-
grain to injure him in any way arely eat enough rule to follow giving in any way. It is a sall the grain they will eat. Oat chop is as good as any for call-feoding.

There is profit in baby beef. An Ontario
County, Ontario, feeder sold a number of very Montreal market last spring for a yevear old) on pound live weight. Ampong the number was por several months under a year old which weighed and 800 pounds. Such a price surely paid prices obtained for three or four-year-old with the that time.

In buying cattle to feed always remember that it costs more, as a rule, to put on gains per cwt. than the price per cwt. which the cattle are liketion. It is, therefore, necessary to make careful paid in the fall and that received between that that received in the spring.
It has been estimated that
the cost per cwot. the cost per cwt. of gain
is from $\$ 6.00$ to $\$ 10.00$
according to the is from $\$ 6.00$ to $\$ 10.00$
according to the feed used
and the class of cattle fed. This is generally more fhan the sale price of the the heavy steer and figure carefully on the spread in
price. price
 sometimes fatteners have remark that all they got the manure. Manure is turns from cattle fattenof it en totally. ingored, full value. A United States professor, from extimates the amount of maduring six months of fat four tons. What is tho worth on the farm ? This dled and what crops are grown, but the same auon many farms.

Canada has been much concerned of late over her falling off in live stock. The United States serious degree. Census returns in that a more show an immense decrease in cattle, sheountry swine. In 1910, as compared with 1900, there
were in the United Sheep were in the United States $6,000,000$ less cattle.
$9,000,000$, thess sheep Live, 000 less sheep and $4,500,000$ less hogs. Live stock getting less and population rapidly in
creasing is the dilemma of North America. ing the last year over a million foreigners entered the United States to make homes, and Canada' increasing at a rapid rate, hundreds of thousands finding homes here annually. No wonder Chicago has experienced famine beef prices recently. Sure farmer

## Want Space for Arena.

I have read with much interest the editorial
I harmer anver "Will it come" in your issue of September 19th, National Exhibition wants the co-operation of the farmer, and especially the small farmer. Agriand no exhibition can be a national exhibition. without a complete display of Canada's agricul-

In regard to the building of better stables and
a judging arena, we are as anxious as you can
possibly be to have the work go on at once.
hare the possibly be to have the work go on at once. We
have the money in the treasury for the improve ments. That the work has not been started before this, is not our fault
fore we can carry out our extensive more room beimprovement of the live-stock department. That room is to be provided by the Garrison Common. dered this land to the city wome have surrendered this land to the city some years ago, but far failed to provide accommodation for the troops elswhere.
Until this is
Until this is done it is impossible for the Exnot the farmers help? Cannot they ask their representatives at Ottawa to urge on the Govern-
ment to make the necessary changes. If the Exment to make the necessary changes. If the Ex-
hibition gets the land it will do the rest. Help hibition gets the land it will do the rest. Help
us get the land. President,

Our Scottish Letter.

## TMPROVED HARVEST CONDITIONS

$\qquad$ September so far has endeavored to make up
for the deficiencies of August in the matter of for the deficiencies of August in the matter of
weather. It has been a dry and pleasant month, and harvest in the earlier districts has seldom been got through under more favorable conditions
One prominent farmer was able to say yesterday One prominent farmer was able to say yesterday
that he had "led" his crops with fewer interruptions this year than even during the phenomenally ary season of 1911, and while the experience of everyone is not this, in the eastern part of the west it is not so, but on the whole the prospects of a successful ingathering are quite good. Ther are heavy dews in the morning and sometimes a touch of frost, consequently the day is somewha September day is none too long. The heaviest item in connection with this harvest has been the cutting. The oat crop especially was very badly lodged, and recourse had in many cases to be had i. e., the reaping hool The most efficient reap ers in this way come from Ireland, and this season they have been doing very well indeed. It is customary to hire them to do this work by the
acre, and when operating on these terms it is acre, and when operating on these terms it is marvele
transfer the crop from the stalk to the stook. When the same forces are paid by the day, no one Would suppose the work was on the same plane
A gang of men paid on this footing can put in A gang of men paid on this footing can put in vest delightfully. In some cases the reapers this year made a fresh demand every morning, and the farmer had no option but to comply. At admirably the self-binding machines have done their work under very trying conditions. With crops in many cases lying flat, it is marvellous how these harvesters get under it and cut it down. The patentees of these labor-saving In order to complete the harvest in a satisfactory way, we could do with quite another get it. By the end of October we should be in excellent mood for holding Harvest Thanksgiving services, which are still a feature of the religious life of many parishes. For a time gloomy forecrop, but the fine weather of September appears to have checked the disease, and a much more hopeful tone now pervades the market. Should ur desires be the harvest of respecto weathe in Scotland, be quite as favorable as the harvest of the grain crop. The root crop proper, that is of turnips and swedes promises to be unusually farmers in the feeding districts, is not exercising find winter food for stock, but where to find stock to consume the food.

FOOT AND MOUTH IN IRELANI The continuation of sporadic outbreaks of foot
and mouth disease in England and Ireland is hay ing a most disturbing effect on the stock markets just when things are settling down, and there is a prospect of trade being resumed along its
wonted channels, a fresh outbreak is reported, and standstill orders with their attendant grievtrol in connection with diseases of stocl is coming very apparent, and some are recognising and urging the necessity of having one central authority for three kingdoms. It is novel to hear the claimants for political Home Rule demanding
uniform rules and treatment for Ireland and Great Britain. It must be evident to every intelliyent percon that the necessary prelimenary to uniform
ireatment is a central authority administering rommon oriters. Thhappily this is what we have
west of Ireland, Ireland mercilessly the south and ports against Scottish stock, although there was something like 300 miles between the Scottish border and the area of the disease. Scotland has been absolutely free of the disease for about Iour years, and the Irishmen complain that our
Board will not differentiate between ports and their hinterlands. It is surely clear that the complaints are ill-founded, and that the Irish breeders are simply being treated as they treated is putting the case too favourably aro. This breeders, because fat stock is being for the Irish certain Irish ports, and slaughtered in the lairages at the foreign animals' wharves in EngIrish stores immediately; the Irish breeders should set their house in order as rapidly as possible and get rid of foot and mouth disease. Recrimination does no good; the one thing to be aimed
at is a clear bill of hearth in animals.

PERPLEXING FEEDING PROBLEMS
The British Association this year held its able, as being the first at which agriculture had a department all to itself. The President of the Department or Section was T. H. Middleton, one culture and Fisheries, and a native of Cof Agriin the Black Isle where his father and grandfather farmed. Mr. Middleton delivered a very ject was the improvement of the Improver-a phrase borrowed from an old agricultural writer The papers read at the meeting of the Section
were numerous. Some of them were unduly

K sunre was singularly successful, winning bot old horses of the true Irish hunting type horseman in A., Bally wena, an accomplishe the matured horses with a beauty. Many cup fo would have preferred him to Lord Kenmare' young horses, but doubtless the judges weighe everything, including the difference in ages in haustive and painstaking trial to which Gill ex horses in the final were subjected, and well wort going far to see. Generally the tendency is in lavor of a better-bred Irish Hunter for the
heaviest weights. Gentlemen who ride stones,, i. e., 210 bss., are finding that a lighter looking but more choicely bred horse will give more pleasant ride than a heavier horse with less
breeding. The former carries his rider longer more comfortably even over a hard country and the latter. It is the old lesson-that quarty is of greater value in a horse than quantity. The clydesdales have been selling hurse in the end. clycesdales have been selling quite well by public
auction. At Perth pedigree sale this week, 103 head of all ages, chiefly females, made an average fillies were $£ 5 \mathrm{~s}$. A large number of two-year-old fillies were bought for the Canadian market at from £40 to £50 apiece. The great joint sale o made the fine average of $£ 1511 \mathrm{~s}$. 10 d . This is quite a which pays breeders well, and there is quite a spirited demand for these model ponies,
alike for the home and export market are two departments of the home trade There are two departments of the home trade-the fancy
or riding and driving pony for the child, and the milk. The influence of the consumption meat and that money. The highest problem which has often puzzled of milk is a f28 18s. for 20 , W. Jofe reflec tive men among feeders. It is now pretty reflec-like number, and Messrs Templeton 22 16s. for erally admitted that very little is definitely known as to the economic side of cattle-feeding of proportion to the amount of food sadly out and so far as milk is concerned those who have studied feeding and its influence on milk produc dogmatize on the subject. One thing is to dogmatize on the subject. One thing is recog
nized, before there can be any advance in ledge as to the influence of food and feeding milk, there must be accurate and reliable data a.s to milk production. When milk records are dis
cussed at a meeting of the British Association great step forward has been taken in the collect ing of reliable data-such as can alone furnish the
only secure basis for any scientifically accurate
HORSE, PONY AND Sheep sales. present. The reasons for this have already been antumn sales of all classes of our troubles, the
atock have yielded
ancellent results. When I last axcellent results. When I last wrote we were on passed of with its usual eclat. The weat erem wht it greatly improved on Thursday amy thare

Pen of Export Bacon Hogs, Tamworths
First prize at Toronto; second at Ott awa. Fed and exhibited by T. Read mañ, Erindale Ont and exhibited by T. Read-
 pit pony. It is because we have this dual market that Shetland ponies
continue to find a ready
sale sale. Any breed prospers when there is a commerclal market for its mis-
fits. The famous fits. hacknev stud Burdett Coutts, M. P. has been dispersed. The average was $£ 513 \mathrm{~s} .4 \mathrm{~d}$.
for 48 head. In the s h cattle world neep and
sales able sales have taken place. have witnessed sam salens trade for all kinds of pure-breds. One of the most successful tup-
breeders we have, James breeders we have, James
Jeffrey, Deuchrie, Prestonkirk, who breeds Border-Leicesters, Che-Half-breds, i. e, we cal duce of the BorderLeicester ram and th e
Cheviot ewe, has sold 100 rams of all $t h \mathrm{hese}$ classes at an average of
fully $£ 12$. At the Kelso ram sales a week ago h a shearling ramice fo The Auchenbrain bo whourve succeeded problems. One of these was the relation the known Ayrshire breeder, sold one at a well
their father, the late
L.

4

OCTOBER 10, 1912
Ages and Weights in Cattle Feeding.
In what part or year of a steer's lifo (1,250
lbs., fnished is is weight produced most cheaply,
under average conditions? under average conditions?
Bruce Co., ont.
This is a question
of mich has been the subject of many arguments. It is important that every
stock-feeder should know at what stage his feeders
 mard to bring forth enough material to prove that
any set age is the best age for making azins, as any set age is the best age for making gains, as
there are so many factors entering into the problem. There is no doubt but that cattle at cer-
tain stages of growth or of fattening rapid dains than at other stages, uut thase moare
are different in difterent oattle. Experienced feos are different in different oattle. Experienced feed-
ers have noted that as an animal reaches the
und appetite as at the beginning of fattening geod an does the animal make so rapid or so co conomical
gains, but the degree of finish reached determines gains, but the degree of finish reached determines
to a very appreciable extent the price obtained to a very appr
on the market.
The composition of the animal increase varies Huring feeding. The increase on a y yourg anima
Chich is growing age -hich is growing rapidly contains large quantithe increase on an animal which has completed
its growth consists chiefly of fat. It is clearly seen that the amount of food necessary to produce
a pound of increase is considerably smaller in the a pound of increase is considerably smaller in the
case of the young growing animal than the older
mature steer. meriments with Lawes \& Gilbert carried on exstore to the fat condition, and passing from the increase
to be composed of 244 per cent. nitrogenous matter, 66.2 per cent. fat, and
15 1.5 per cent. ash, showing that the increase dur-
ing fattening contains from eight to nine times as much fat as nitrogenous matter. The composi-
tion of the increase would indicate that the young tion of the increase would i.
animal had the advantage.
The use made of the food fed is an important
consideration. The young cals consideration. The young calf makes ad most
economical use of the milk or other food which it
receives eceives. Warington, in his Chemistry of the
Farm, states that a young calf can store up as flesh sixty-nine per cent. of the albuminoids in its
milk and assimilate at the same time ninety-iight per cent. of the lime and seventy-four per cent. of
the phosphoric acid. During the first few weeks pounds of dry ten pounds of milk, containing 1.3 weight. A cali is often able to make gains in weight almost if not quite as rapidly as a fatten-
ing ox ten times as keavy.
These extraordinary se are due, says Warincton. to the weight of the bodv, to the water watry nature
of the increase in a young animal and the small formation of fat
We know that the younc animal consumes more
food in comparison to hodv weight than the older animal, that os the animal weight than the older
food consumed gradually increases, and aunt of
at the
 ible fibre is cons, where on on one-hale the digest
digestible food rocker amount of digestible food recknod as starch for a calf weigh-
ing 16.5 pounds is 3.5 pounds, or 21.5 pounds per thousand pound live weirht per day, while there
is a cradual increase per head and decrease per
thousand pounds live weicht until thousand pounds live weight until a steer weiqh-
ing 935 pounds
required 12.3 pounds, or 13.2 $A$ creat deal depent wis day.
 keep the animal alive when neither paining nor ing and is undersized there is a greater loss of heat compared with the weight than is the case
in a larger animal. All food in measured as
neat
heat, so it renuires more to maintain the maller animal per unit of weight than the larger animal
Maintenance must be reckoned with first, fatteninc arterward. This has an important, bearing
on the question, for one steer might have attained
 in this respect in the feed required for these cat-
tt. in fattening. As fattening advances food
trodnces a steadily diminishing amount of incrase in a steadily diminishing amount of in
Why
Simply becuse (the animal is fattened it increases in size, and
rreater the size the larger the amount of
required in dipestion, or, as chemists sav

 Wh that necessary for a lean one. The condi-
the or stage of fattening. then. has a direct twar-
ing on the question. What one man would call

THE FARMER'S ADVOCATE.
"finished" another might consider "half finished," and so we might go on indeninitely
We must conchude body substances by well-nourished young gain in is relatively much greater than by mature ani-
mals, ven when fattening. The unweaned call,
he states he states, may increase two to three pounds daily
for each a gain of 3 to 4 pounds daily per 1000 pound
of body
The foregoing arguments pertain larly to the amount of the gain, dealing very lit
the with Maryland Experiment Station experiments were carried on for two years with two Aberden-
Angus steer calves.
During the first year call ${ }_{447} \mathrm{No}$. . ws wighing at the beginning $105 \mathrm{lbs} .$, gained 447 lese or an average daily gain of 1.2 lbs. It
required 430 lbs . of milk, 290 lss, of concentrates and 200 lbs . of hay for 100 lbs . growth. During less than the first year), an average of (sl.2 lbs. daily taking 880 tbs. of concentrates and 760 Ibs. of
hay. The second calf weighed 97 lbs in the ginning, gained 455 lbs. during the year, gzined trates and 190 lbs. hay the first year. The sec ond year this calf gained 559 lbs., or 1.5 lbs .
daily on 670 lbs. of concentrates and 800 lbl hay, Thus we see that the galns were practically the same the first year as the second, and it
required three times as for a a given gain the second year as the first. No
fore
 be more expensive, the increase made on hay and
concentrates or that made on milk ? Reck and $\$ 16.00$ per ton, and the cents per pound, hay at it cost nearly eight dollars more to feed the first calf the second year than the first, and he gained pouirteen pounds less. The second calf gained 104 extra feed cost of about $\$ 4.50$. These are anly two calves, and cannot be used as an exact represensation of all calves, but this gives some idea
of the variation which cattle, and it also shows the greatest proft in the first yoerr, seering operations.
M Oest feeders
Most feeders agree that the cost of fattening is
influenced by age. influenced by age. To prove this Henry outlines
experiments which were carried on the Ottawa Experimental Farm, where 158 head of steers were fed, and the rate and cost of gains
compared during feeding periods of about six compare
months.
rate and cost of gain for fattentig
STEERS or various acte
$\underbrace{}_{\substack{\text { For equal proat } \\ \text { compared with calved }}}$


"It is seen that six-months' calves, averasine
397 lbs. in weight, made an averace daily 1.8 lbs. during the fattening period of about six months, yearlings to three-year-olds averaging about the same. The feed cost of 100 lbs. of
gain was $\$ 4.22$ with the calves and increased with the age of the animals, the gains made by the thre--year-ocas costing 86.36 , or fity per cent. greater cost of the gain by the older mals might have been offset by buying thewe steers
as feeders at slightly lower prices per cwt. than the younger animals, or by a small increase in their selling price when fattened, which would be the yearlings could have have ben purchased for 35
cents per wot. less than was paid for the cents per cwt. less than was paid for the calves
and sold at the same price per cwt. or if after fattening they could have been sold for 27 cents more per cwt. the increased cost of the gains by the , yarlings would have been met.
finished ander the usual market conditions young unfeeders to counterbalance the lower feed cost required to make them fat. Mature cattle fatten more quickly than do calves or yearlings; hence
when steers of different ages are fed for the same period the older animals will reach a higher finish, and therefore usually sell for a higher price than the less highly finished calves or yearlings. quire less careful attention. It may be accepted as final that so long as the professional feeder can buy the older cattle with suffcient margin to ally overcome the increased cost of gains made
in his feed yard he will consider it to kis advan tage to feed them in preference to younger animals."
It
gains on oldar cattle than with young animals, and it is not always that the feeder can get sumficient margin in purchasing to. pay him to feed
the older animal.
Good baby beef sells very high so it is doubtful whether the older animal will bring a larger price on the marke
From a table of the
of thom a table of the ages and weights of steer Angus, Sussex, Red Poll and Galloway breeds slaughtered at'Smithfield Fat Stock Show from 1888 to 1895 , we find that, as compared wrom steers made the best three-year-olds, one-year-old of the made the best average daily gains in each
of bive breeds mentioned, and in the other steo, where only two-year-old and three-year-old steers were slay hhtered, the two-year-olds did bet-
ter than threa-year-oldd A point which may be a little in favor of feed ing yearlings in preference to calves is that the labor in feeding may be a little leess, as calves may equire a hittle more attention. Again, if one has hake of second-class roughage, yearlings might
a ditte more economical use of it than calves
Th
These are arguments gleaned from careful ex-
periments cited by our best authorities. There periments cited by our best authorities. There
are many factors influencing the answer. and we must say that it depends largely upo the steor, the feeds used, the comparative prices of the difthe stear during feedine care and management of but, on the whole, under averace circumstances, the greatest and most economical gains are made during the first year of the staer's life. This is
a question in which every cotto a question us have an open discussion in in it ough these columns.

Sanitation, Ventilation, Drainage and Cleanliness.
of animals the with the control of tuberculos control of this dread disease gave out some hint in regard to sanitation, ventilation, drainage an in which stock is kept.
Dark, dirty, crowded stables are favorable sproãas rapidly, and is only kept out with diff cuilty.
Chea 1 , airy, well-lighted stables, on the othe hand, ure unfavorable to the development of the net rid of so rapidly and is not so diffleult to get rid of as in the first case.
$A$ well-built, sanitary stable
of expensive material or of elaborate desicn made should have plenty of light, alr-and drainage. Light is very important. . Direct suñight is a
great destroyer of germ life. Tubercle baill soon die if exposed to sunlight. It is a disin fectant, always ready to work without cost. Sunlight is also necessary to the health of animals.
Men deprived of it for any length of time, as Men deprived of it for any length of time, as
prisoners in iail, become pale and lose the anpearance of health. Cattle that are constantly onfinen in dark stables hecome lowered in vital-
ity and are ready to catch any disease with which thev come in contact. For these reasons the cor stables should have plenty of windows on two or more sides if possible, so that the sunlight can
reach every part of the interior some part of the $\xrightarrow{\text { day. }}$ ventilated stables the air is breathed In badly over again until it becomes more or less poison-
ous. Animals kept in such conditions gradually reduced in vitality. This become not be noticeable to the observer change may apparent if the animal is exposed to disease. It
readily contracts disease and does not recover readiliy contra
from it readily
space for each animal. This have plenty of air to be high, the stalis roomy requires the ceiling
wide. In addition to this wide. In addition to this ample air space, some
way of changing the air in a stable must be pro-
vided way or Thaning the air in a stable must be pro-
vided. This is done by suitable openings in the walls and roof, and comprises the system of ven-
tilation. Ventil
thintion to be successful must provide for two things: first, the removal of the foul air from
the inside; and, second, the bringing in of fresh air from outside the building. No system is good that fails to accomplish these objects with-
out causing unnecessary drafts The usual way is to bring in fresh air through open windows, and in cold weather through ven-
tilating shafts, which may be concealed in the walls or beneath the floor. The foul air is refrom the ceiling to the roos where they are usually protected by a hood. When both inlets and outlets are proportioned to the size of the build and no sensation of closeness should be percenti ble in the stable.
Drainary
Stables by suitable gutters and drefuse from the not do this unless the floor is water-tight and
concrete flooring is therefore recommended. Urine
leaking through cracks in the floor until the soil
beneath is saturated is a frequent source of foul dors and unhealthy stables.
Since the manure of tuberculous cattle fou contains living tubercle germs in vast numbers the importance of keeping it well cleaned out of only dangerous to other cattle in the stable, but may be the means of conveying the disease to children. Often cows are seen with their flanks
encrusted with dry dung. Parts often break oft while the cow is milked, and some of it is likely to fall into the milk pail. The larger lumps are strained out, but the smaller particles remain, and pass through any strainer are small enough milk and make it a fruitful cause of the disease in the young
Stables should be cleaned out often and the hogs or cattle. These animals are easily infected in that way. Cleanliness also includes keeping the walls and ceilings free from dirt, dust and eobwebs. These are all good resting places for
disease germs. Whitewashing
least twice a year is a great ald to cleanliness, and also has a distinct effect in destroying dis-
ease germs. In many municipalities dairy stables ease germs. In many municipalities dairy stables
are required to be whitewashed at regular intervals, and it is a practice that should be univer

## THE FARM

## What an Amateup Farmer Saw

 on a Trip. - I. Editor "TThe Farmer's Advocatand the 26th of May last, four of us-two men Line steamer for London. After a very pleasant sea voyage we landed at Havre, the well fortified
chief seaport of France. Our ship remer days, discharging cargo, chiefly wheat. We spent the first of the two days in the quaint old city of Rouen, a short railway ride from Havre, and the second day in Havre. Upon the streets o
Havre we noticed donkey-drawn carts laden with garden truck, a small scale tied to the side the cart and a large dog tied to the axle to pro sought orders or delivered the woman in charge was drawn by a harnessed dog and a boy car pulling his share A milk cart was drawn by a eam of dogs. From Havre to Rouen we passed through very, very pretty, attractive and well cul-
tivated country, in which were many busy manufacturing towns. Much grain hand been sown for pasture and was being eaten off in regular rowseghered. I suppose that by the or plot, by cows would go over the field the first part would cows grown up to again afford a good bite. There were numerous apple orchards by the way, but no very From Have
travelled through English agricultural districts we woth much impressed with the value of a tree scarcely realize the extent its beauty. One can rural England is due to its beautiful treesuty of criminally foolish have we been in Ontario, as we have ruthlessly cut down beautiful trees that enjoyed their beauty, and that their spreading branches might have given beneficial and much needed shade and shelter to our horses, cattle and sheep, which often suffer as much from a hot sun
as from cold and storm. Woodman spare that tree. and his companions, in their youthful pranks lin, and at other places, we saw deer Park, Dubor by the hundred, almost as tame as the cattle or the sheep. In Phoenix Park there are abou
600 and to prevent an undue increase of the num ber, they have an annual "shoot." About a much s .
stable. large numbers and wondered if we should not
have many more flocks in ()ntario, especially have mary more flocks in Ontario, especially upon
our hilly, low-priced lands, so well adapted to
ane sheep grazing and so comparatively useless and unprofitable for crop. Then I wondered why On-
lario farmers have not before this insisted upon
tuore stringent legislation to more stringent legislation to get rid of the dog
Compel the payment of a sufficientiy
high annual license fee upon every dog in town high annual license fee upanment of of a sufficientiy milue for sheep worried by dogs and there fay full nore dog skins for sale, fewer weeds and better wons upon the farms, and more money in farm
and ponies were often seen drawing loads that an many of our roads would require much heavier animals. In England I observed some low-lying fields cened in very narrow lands, ridged high in the fields and grain fields alike.
In Covent Garden Market, In Covent Garden Market, London, and after-
wards in other markets, we saw quantities of very


Three Gentlemen of Holland


Street Seene in Hawn Frand
far until he is eleven years old, and that he will
ing with outwork any other horse. Walkpasture, I asked him how long since it had beed broken up. He replied that it had probably not been broken up or reseeded for eighty years, and
certainly had not been since he came to the farm forty years before.
From London we went by rail to Foluest passing, by the way, through extensive Kentish hop fields, and from Folkestone sailed to Bologne and Rouen. I saw that nearly , Paris, as in Havre heavy street hauling was done by splendid and and well shaped Percheron stallions, often two three and as many as five hitched to one load latter, save among the light horses, were comFrom Pairis we crossed Belgium, without halt, on our way to Cologne, Germany. The
land was w6ll and neatly cultivated. land was well and neatly cultivated. The grain
looked well and they were taking off a good hay crop. In Belgium, as in Germany, the women Belgium and Germany much attention is France, forestry and reforestation. The trees, mostt
pine, fir or other evergreens, were in regular ad sine, frair or other evergreens, were in regular a
sta differed in age and size of trees. In Ontario we have not been so mindful of the claims and neFrom the pretty, old cathedral city of Cologne we went by steamer a fair day's ride up the
Rhine to Mainz (or Mayence). For the first of the distance the country was level and the usual farm field crops were grown. From about
Bonn we were in a valley ing up on either side, cultiveth mountains toweror peaks-all in patches of strips of varied very tips meadows already cut and of brownish colors;
ripening ryeen, ripening rye of yellow tint, oats, potatoes, sugar
beets, each with its with no fences to divide, the slopes of green, and tain sides presenting the whole so clearly to mounview as one grand sunlit patchwork, made a very pretty scene, not marred by weeds, stone piles,
brush heaps brush heaps or other evidences of careless hus-
bandry. As we went further the grape country, and vineyards abounded with men dressing the vines, sometimes standing upon crags where it would seem difficult for a goat to
find footing. Old find footing. Old castles in strong positions
among the mountains upon river, added to the interest and gave evidence that in the centuries past the people had not always all devoted their time and attention to the
peaceful pursuit of arricultur German thrift was given by the An example of and other garden vegetables the lettuce, cabbage soil on the toD of a thick old stone wall of the
ruins of Heidelber From the soldier-paraded city of Mayencel went by rail to the old university city of Heidel-
berg, from there to the city of Frankfort, the birth-
place of Goethe Mlace of Goethe, north to Cassel, where is one of
the palaces of the Kiser the palaces of the Kaiser, and on through Han
over to Hambure, the chief port Heidelbere to Cassel hay-making was in fuyl
swiny. Much of good many mowers and tedders seythe-cut, bul cows, harnessed-up. drawing hay, plowing and doa scuffler cieaning roots. If women worked in
the fields in seemin. the fields in seemingly larger numbers worked in
men, then when the men, then why not the cows?
ers were for the women than the
and ers were for the most part neatly attired, though
niny of them were in their hare feet. li.w. the ahsence of farm huildings, feet. We no were told
that
liwed Tived in comavitins, which accounted for the
manv little villasen, of haldings with red-tiled
roofs contrastina nicoly with and forest
Here and thern witely with the green of field Here and there wre sem the old, low, wind
mills, pictures of which we so often see in hook
and noner and naver and upon blue delft dishes, with thoir
great long fans. canvas coverect when with prindin. erain. maming water or furnishing
rower for small manufacturing. As in France
in ferman common red purny through appeared to the the crons as a weed.
in some places taking almost complete possecsion
of areas. of areas, acress in almost complete possession
crimson hue to whole fields. and giving a bright caller it "Fire whole fields. One fellow a traveller Whatever name it seemed a beautiful nuisance.
From Hanoter to Hamburg the country is rather
flat and with itc ocmosing flat and, with its occasional canals, gives one a
taste of Holland in advance count taste of Holland in advance. The land was much
gi ien to hay andi pasture with gien to hay and pasture, with a good deal of
vine and fir forest. Most of the manv cattle were
Holstrin and wo Hostrin and we saw goats in considerable wum
bers at Han
and thourg we visted the 'iNew Markpt' and thol Hawhurg we vis ted the "Near Market' including Conent carden Market large markets
never. any place else. saw such an im tondon. never, any place else, saw such an immense crowd
foullooking Australian and New Zealand apples.
dumt's Arab farm at London to Lady Anne we inspected more than sixty Arab steeds, wach one a beauty. The stallions, loose in their … stalls, were quiet as kittens and, without Now in anv sign of ugliness, permitted
ald
fruits, vegetables and flowers. From Hambur wiamond market, and from there by boat to MonMarken in the Zuyder $Z$ and the Island being to see the people in their peculiar and grotesque costumes and quaint homes. Here, as else
where in Holland and Germany, the cattle nearly all. Holsteins, and among the black and white a few red and whites, just as good cows and as purely bred as the black and whites. In Can-
ada and the United States, however, careful ada and the United States, however, careful breed-
ers do away with the occasional red and white ers do away with the occasional red and whites
that come now and again in even the best herds with proudest pedigree, and none but the black and whites are allowed entry in our Holstein herd books. The only Dutch Belted cattle we saw
were two cows in a park at Amsterdam. were two cows in a park at Amsterdam. Nearly level and in some places many feet below. What a responsibility upon the protecting dykes! At
one of these Zuyder Ziee villages we visited a farm
delft presses Dutch cheese made from the ng's milk. Everything was clean that morn used as a well white-washed place was in winter From Amsterdam - went the Canals, some small and some very small, ran vided the chief means in every direction and prostrange to mee means of transport. It seemed the field in which it grew, upon a small hay from stack. peared to be travelling numerous that we apravagantly stocked ranch, and grass was the principal crop, with, in fact, little other crop in and large gardens in the neighborhood plantations From the Hook we crossed to Harwich and up ufacturing and from London, through many manLiverpool. From and good farming country, to the old walled city of Chester, city we visited

Eaton Park the beautiful large estate, alread the park, lounging Duke of Westminister. About numerous bands of deer. We did old elms, were the Duke's famous race horses, nor did we chance o see the Highland cattle we were told roamed Frome part of the estate
Wales to Holyhead to get the we crossed North The Welsh scenery was varied and beautiful, with level plain, cultivated hillside and bold and gged mountain and cliff. We saw much hay herds of many sheep and, in the Western parts ierds of fine Welsh black cattle, the cattle we saw Here and there a donkey pastured and goats wer frequently seen. Speaking of goats, we were told milk, but it is better for babies, and than cow' better for babies, and that goat $\begin{array}{ll}\text { Grey Co., Ont. } & \text { H. H. MILLER }\end{array}$ (To be continued.)

## 1 <br> AGRICULTURE ON GOVERNMENT FARMS-II.

## Some weeks ago we published a somewhat

 lengthy resume of the agricultural undertakings Asylum Farm arm which is the Brockville Asylum Farm, a farm which is yet comparativelynew to advanced scientific methods, having been purchased by the Asylum authorities only very recently. Following up the idea of bringing beIore our readers the methods practiced by Gov-
ernment ernment institutions, in the hope that as well as
being a matter of general interest to them to know how such institutions are managed, they may get some valuable new ideas applicable to a degree in their own field of labor, we visited the
farm operated in connection with the Hospital Iarm operated in connection with the Hospital
for the Insane at Iondon, Ont. This institution was established some forty years ago, and at that time about three hundred acres made up the
entire holding. Of course a large portion of this entire holding. Of course a large portion of this was taken up as grounds and buildings. The
farm now consists of six hundred acres, the latest acquisition being a fifty-acre lot this spring, and
a large part of the land was until very recent a large part of the land was until very recent years in a condition not suited for cultivation up to five years ago never produced a crop, whing
in a swannpy underbush state, never having been properly cleared
dent 1908 Dr . W.J. Robinson was made suiperinten dent of the institution, and although of necessity
the greater part of his time is devoted to profes sional work in connection with his patients, he finds
time to keen in touch with the of the undertaking a with the agricultural end ceedingly well managed and which is a source o great profit to the institution. Seldom indeed
does one meet a fessional work a man primarily engaged in proand pigs, as is Dr. Robinson, whose office con
tains many photographs of the excellent herd of grade Holstein cattle kept, and complete records THE DAIRY HERD

THE DAIRY HERD
of farm success at this institution. The friter has never seen a better aggregation of producers,
and it is safe to say that considering numbers this herd has a record equalled by few, and it is
doubtful if another can doubtful if another can be found in Ontario to 31st, 1911, the fifty cows composing the herd averaged 8,493 pounds of milk each, and the best
cow gave 13.160 pounds. The average of the best five was 12,013 pounds; of the best sixteen 11, -
025 pounds and of the best twenty-nine 10 025 pounds and of the best twenty-nine 10,022
pounds. Considering that one cow in the herd was farrow, five aborted, thirteen were in their
first lactation period, eleven milked from six to eight months only, and that thirty-eight was the
number completing the season of twelve months this is a wonderful record. state if superlative efficiency in the short space
of fonir years. Only two cows remain in the herd which composed that of 1908 , when system-
atic milk weighing and keeping introduced. Milk-records have totaly reorganized
the herd, and placed it on a paying basis. By this means the poor cows are weeded out year
after sear, and better individuals fill their stalls Any cons which in twelve months or in her period
of lactation does not give 7,000 pounds of milk is diccarded as being unprofitable. About fifteen per cent. of the entire herd goes every year failing
to fulfil conditions necessary for a place among
the the anst and in a modified form is to remain so
in the future, but in place of re-stocking from outside resources, the promising heifers will take
the place of the unprofitable older cows. By re-
good pure-bred Holstein bulls in service heaviest producing cows, one of the best herds of commence the first milking periodry is ready to A stronger-topped, better-constitutioned herd heifers hy cars could scarcely be wished are carefully weighing the milk the best producers measuring up the heifers, for surest method of milking there is no other for until a heifer ing tworth, other than by her ancestorsting uen most satid heifers is, all things considered, the Dairymen have method of herd improvement. heifer should ave advocated for sometime that a in life. This has been carried lactation early meeting at the last Ayrshire breeders an exers are ce argument was brought up that breed heifers should irom twenty-eight to thirty month calves until heifers innection it is interesting to note that In mence their asylum herd, which did not comof age, averaged during this periods until four years pounds of milk eaoh, the best one, nearly 10,000 10,190 months after conception took place, riving ten months. Thes the other two milked only fore their growth was hampered by good size be type and the one still in the herd milk produc type of grade Holstein heifer as one could wish. stitutional develonment of the heifers is concerned, heasonable stage of maturity they have reached a Rechrds are never made without care and feed swo silos holding approximately hold the corn crop which is fed winter and summer. Eighteen to to which is fed winter and and turnips are consumed annually, besides a very about fifty acres is grown, and which this year


Note the high ceiling, the wide feed passage, the piggery
the piping
hand some 300 pigs at the present time, 250 of the cycle. About 100 acres of hoed crop com-
which are nearly ready for the knife. Last year a new pen was constructed, one hun-
dred and twenty feet long by thirty-two feed wide. twelve feet passage runs the entire length of the building. The pens are cement-Hoored with a raised cement
sleeping apartment in each pen. Part of the time, owing to the scarcity of straw, no bedding is given and of upwards of 400 hogs finished in the pen no evil eftects of dampness or cold from
lying on the cement floor has been noticed, lying on the cement floor has been noticed, "no cripples" or "stilfened" pigs having besulted. pigs, one window consisting of twelve ten-inch each pen. Ventilation is secured through sliding doors in each pen, which lift by a rope running
over pulleys to the center passage. Ventilators are also provided. A nine-inch drain runs down the center the entire length of the building, and the floors of the pens are so arranged that every two pens drain by a lateral into this main, and
thus the liquid manure is carried out where it is proposed to build a cement manure receptacle to retain it. All the partitions and the fronts of the pens are made of iron pipe and are station-
ary, the feed being poured into the cement ary, the feed being poured into the cement
troughs through a small opening under the frame work of the front of the pens. Feed consists largely of kitchen refuse. No milk is provided.
Shorts, frozen wheat Shorts, frozen wheat and barley have constituted results have been obtained from the wheat Shorts form the bulk of the grain feed ordinarily The sows are very prolific, litters averaging at least ten pigs. The cost of the material for the valued the entire cost would have been almost $\$ 4,000$. Pigs are one of the best paying assets of the farm, and considering that no milk is available for them at weaning time, extra good which finishes the pigs at the method of feeding CATTLE FEEDING.
Beef cattle have heretofore been purchased by now intended to feed these on the place and thus get more manure, which is valued highly by the management, and at the same time get cheaper
beef. Under one of the barns on the farm cement-floored loose boxes are being fitted up in which cattle fattening is to be carried on. About thirty head of heifers will be put in and finished in as short a time as possible (likely about three
months), their places then being taken by consignment. The high price of beef has also had some influence upon the management in deciding upon this move. In connection with grass obtained this year. In an results have been butcher's steers placed on an averags for one mot of two gained eighty pounds each. This was a given other than that obtained in feed was Silage, hay', roots and a little grain the field. the winter feed of the fattening heifers, which are
looked forward to as another step toward the looked forward to as anoth
goal of ideal farm practice.

ROTATION OF CROPS
gained from what has preceded. A have been otation is practiced on all land A three year general cropping. Hoed crops are followed by
grain which is in turn followed by hay completing
posed of firty of corn, about twenty of roots and One hundred acres of hay and the same of grain complete the regular crop. Barley this year yielded as high as fifty bushels per acre, and the
entire acreage of this crop averaged over forty entire acreage of this crop averaged over forty
bushels, so the three-year rotation is bulshels, so the three-year rotation is giving re-
sults. About twenty acres of corn is used for husking. The three varieties of this crop grown for fodder are Leaming, White Cap Yellow Dent,
and Wisconsin No. 7. The latter is by Dr. Robinson as as one of the best all-round silage varieties, considering stock and ears and maturity at time of harvesting.
There are at tre north end of the farm two fiftythe remainder being black muck. years ago this entire area was practically useless In 190 overrun with undergrowth and wild herbage fifty, with the result that the was put in one potatoes and corn from this field was worth of market prices $\$ 2,800.00$. The field was reseeded this season a permanent pasture mixture, and class hay, besides siving hundred tons of first summer pasture. The other fifty acres has late cats. mixture which the same permanent pasture pounds per acre, and such a mat of twenty-four now growing on this land has never been as is by the writer during the first year of seeding. C. A. Zavitz, of the O. A. C., viz., alfalfa 5 Prof. per acre; alsike clover, 2 lbs.; white Dutch clover, ibs.; tall oat grass, 3 1bs.; meadow foxtail, 2 Its but Dr. Robing. This seeding is rather expensive eal crop the first year pays' many time increasthe extra expenditure due to heavy seeding believes that it pays to sow any kind of grass seeds thickly. In the ordinary hay seeding mixture about ten pounds of red clover is used, and
enough timothy and alsike to bring the total to ahout eighteon pounds peri acre. In the clean ing up of these two fields and getting them sucdred acres of waste, unproductive pare, one hunreclaimed and placed in a condition land has been some returns. Drainage and good cultural methods have accomplished this, as the muck soil was so wet and the sand hills so light that
nothing grew on them. season, which has been a very ing the present for the corn crop, a thirty acre field of as one corn as any Yarmer could wish, was grown on
land which during the past five years hat duced, previous to this, one five years has not pro was so poor and light that it was not prod largely attributable to the fertility added to was of by the growing and plowing down of a crop poor land may be made very productive ty such addition of humus, using red clover as the
medium. medium. Zavitz annual pasture the
Prof. Zater 51 los., early amber sugar cane, 30 tos of oats, mon red clover, 7 1bs., has been successfully tried the cattle preferring it to any other grass on the place. The seeding was left over winter and an
excellent crop of red clover was following crop of red clover was harvested the following summer, indicating that such is a good
method of seeding down for a hay crop as well as
for pasture.


No large farm can afford to keep up a number
o useless fences, and fences not well built and noxious weeds ansightly, and serve to introdiuce fields is being made, whereby A rearrangement of twenty acres and several containing fifty will sult. A road is being run for one and one-eighth miles lengthwise of the farm, and all fields wil long on one side of it, and fifty ninety rods the other. This will give access to every which will thus be on a direct road to the main dairy barn, allowing the cattle to take all the back to the pasture. Hurrying milk cows at bar time is often not in the best interests of dairy ing.

HORTICUITURE.
The gardens comprise about fourteen acres and All kinds of vegetables and parden of fertility grown for the use of the institution. No better ourteen acres of garden crops are annually pronourished soil composing the London Asylun gardens
The orchard is about twenty acres in and has only been under good care for a few sprayed each year, and is yielding thoroughly barrels of fine apples annually as well as hudreds of baskets of plums, cherries and pears. Good care has placed it on a paying basis, and as time POULTRY.
As is the case on many farms, poultry is somehens are kept, including Rhede Island Br breeds Plymouth Rocks, Brown, and White Leghorns very ctose egg records are kept, but returns in egg producers of the strains to be the heaviest Some six hundred laying hens are breeds kept ing about evenly divided among the four all, b Ducks to the number of one hundred and fifty about twenty-five turkeys, and twenty geese ar
reared annually. Pullets, an poses, the cockerels being crate fattened for thre weeks before being killed. They are fed on th ordinary grain-fattening mash, dampened with
water in place of sour able, and good results are obtained avai poultry is well housed in clean open-front house with large yards to the south, and are considered to greater things. grater things.

It has been the firm belief of many prominent the land in and forestry experts, that much of unfit for agriculture, could be profitably or totally belief, a strip of land forest. Acting upon this quarters of a mile long on the sand ridge three north side of the farm, is being planted to white of the trees which have had black locust. Some are looking fine, and, planted five feet aprs growtr way as they are, promise to be a remunerative placed.
There are m justioe to in one short article. A horse be done stalls for twenty-five and thirty-six feet wide with stalls for twenty-five head, including three box
stalls in one end, and having passage up the center between the two rows of stalls, is one of them. A water trough with run-
ning fresh water is situated in the wide passage ning fresh water is situated in the wide passage,
feeding is done through chutes from the loft
above, the floors atove, the floors are of cement, and altogether
it is a comfortable and convenient stable for the
work Work horses with a harness room in one corner.
Agriculture is not a fad on this farm it is a profit-earning undertaking managed upon the best
known scientific principles, and what is bein complished while on a large scale, may very well
be copied by farmers be copied by farmers in so far as their conditions
warrant. We may all learn something of value
from from our neighbors, so let us profit by the ex
perience of the agriculturalists on our Government
farms.

Experiunents carried on at Rothamsted Exper
mental station in mental Station in England with wheat and man-
golds give no evidence that either of these crops golds give no evidence that either of these crops
has any injurious influence upon the soil which "ould unfit it for the renewed growth of the same
crop and that in the case of barley this small, though it is probably barley this factor is With other
crops, however there crops, however, there is by no means the same
possibility of continuous growth. In the eariier
years of experiments at this station it was found years of experiments at this station it was found
imposibie to continue the growth of Swede tur-
nips on the same land from year to year, and
again clover and other leguminous crops are well again clover and other leguminous crops are well
known to render the land "sick" and to

## Hydro-Electric Farm Demonstra-

 tion tricity on the farm have recently utility of elecseveral parts of Ontario. The outhit, which is being oper the then sists of tranfor in and mounted takes the power from the high-oltater transiormer transforms it into a suitable power for all and operations to which electric energy may be ap-plied. The motor is of 25 t plied. The motor is of 25 -H.P. Mounted on a
huge motor truck is a complete cluding a cream separator, churn, butter work in pump and milking machine. Besides these worker, is carried, in which all kinds of apparatus en cooking, Leating, ironing and cleaning are demthese good things were shown to the past week Middlesex County, and several farmers and their wives arailed themselves of the opportunity seeing Niagara power thresh grain, cut corn, milk
cows, separate the milk, chuy the butter, pump the water, hoil the cream, worl ${ }^{\mathrm{t}}$ the irons, toast bread, bake buscuits, sween , boat
foor, hent and and floor, heat and light the room and several other
important farm and household operations sems too bad that demonstrations of such value more people, but whether it it was because of lack
of advertising or rush min of advertising or rush of farm work this particu-
lar exhibition was not favored with as lar exhibition was not favored with as large an
attendance as its importance warranted. The load on the motor to ooperate the thresh
ing machine was about 12 to ting-box aivout 15-H.P. The cost of the opera cion depencs upon the price of power in the muniithe other operations, a tore. With regard to \$65, will operate a complete dairy equipment ing cluding separator, chump and butter worker ., water pump 300 gallons per hour, $200-$-foot head ; or a t-ton refrigerating plant, or its equi-
valent in electric energy will operate $15-25$ Wat candle-power lamps, or a flat iron, a tea urn, a
coffee percolator a toaster coffee percolator, a toaster, a bed warmer, a a fire-
less cooker, a stove, or a washing less cooker, a stove, or a washing machine, sew-
ing machine, electric fan and vacuum cleaner. ${ }_{2}$-HI.P. motor, costing $\$ 100$, waill operateaner. cutter, a turnip oulper, a grinder, a circular saw or a machine inilking eight cows at a time or complete dairy equipment, including separator,
churn and butter churn and butter worker, or a water pump 1,200
gallons per hour, 200 -feet head frigerating equipment; and its equivalent in retric energy will operate an electric range or the lighting of a large farm, including barns, roadway and all ordinary household appliances, This
gives some idea of the possibilities of electricity on the farm, and we look forward to electricity when rural districts into which Hydro-Electric energy is carried get as good and useful service
as urban centres.

## Field Selection of Seed Corn

 Strong germination is one of the incidentals test. K nowledge of ancestry is almost as desirable for seed corn as for dairy animals.Field selection gives som
ancestry.
Seed should not be selected from a stalk near
barren stalks. There would be a strong chance barren stalk. There would be a strong chance
that the barren stalk was one of its parents, and
the that it would tend to produce other barren stalks.
Moderately Moderately good ears from a thick stand are thin stand where they fine looking ears from
of sunshine Moderately long ears produced higher vields than short ears, twenty-one times out of twenty two in five years' tests.
The lower-yielding short ears invariably ex-
ceeded the loe circumference, then, does not mean treance. Greater
noter yielding power. This weight should accoampany reasonalle length, circumference and shelling percentage. Immaturi
jity must throw it out, however Creased-dented ears produced a little more than
rough-dented ears.
Ears selected from the nlant averaged over three bushels per acre more than Waron-shelied seed from the sace same field. The than
waron-shelled eares eral appearance, but the morther in slant and gen-
surd
surronits More information may be obtained from Bul-
letin No. 212 of the Ohio Experiment Station.
 season should be kent in mind.-.I. O. Rankin.
Minnesota College of Agriculture.

Free Testing of Farm Seeds. of the Federal senson 1912-13, the Seed Branch again test free of charge samples of seeds grasses, clovers and cereal crops. This seads of the policy of this branch since the passing of the Seed Control Act
desire a guide to growers, dealers and others who and germination, a leaflested for purity; grading prepared. Under twenty-three numbers has been graphs there are described, amiong wered para how to prepare, pack and address sampleg seeds of various kinds. Useful nes a on qualities affecting the value of seed. $\frac{\text { given }}{\text { It }}$ dampess is that injury to wheat from frost or shrunken condition of the grain the color and kernel of sound oats is usually semi-transaled and not brittle, a frosted kernel is dark and mealy, particularly at the tip, and is usually
brittle and clover seeds, but are given for cleaning grass not clean are recommended to sell theirms are an uncleaned condition to a wholesale merchant who has special power cleaners. Persons who de
sire to this circular seed tested may procure a copy of
tions By aplying for it to the Publicature Branch of the Department of Agricul

## Dealing with Copn Stubble.

## Editor "The Farmer's Advocate": Stubble

Among the many articles written on corn culnoticed anything on fetting rill I have never stubble after the field is cleared. I I in the corn have hit upon a plan which I think is far ahead and I give it to my brother farmers for what it
is worth. is worth. I believe I have received a great deal
of information on a of information on a great many farm subjects
through the medium of The Farmer's Advocats and I am willing to give others the benefit of anything I know that would help anyone along. As son as we have filled our silo and picked up.
ail litter on the corn field sheared single plow and turn out the stubble shallow as cer be done, that of course will leave the field in a pretty rough condition, but we and then roll it, and then leave it dill abo down
and and and a last plowing in fall, then plow in the usual way perhaps with a skimmer or chain to bury every
thing thing, this not only gets rid of that nuisance, the
corn stubble vou see sometimes perhaps in the newly seeded clover crop, but there happens to be any grass or weeds left in
the rows and be destroyed.

$$
\text { ord co Ont } \quad \text { A. W. H. }
$$

The binder shells out less clover seed than the ramping of a mower team over the brittle heads bundiles are left unbound with the hand ar. The sun if the binder is properly adjusted and man aged. A tipht rack catches such seed as shells
-
A Minnesota literarv expert figures that far-
mers of his State conld get into the millionaire-
income class for one dav at least
ncome class for one day at least by selecting
heir seed corn in the field.
Two hundred dol
lars, he estimates, could be earned by one dol



Yearling Heifer and Heifer Calf

## THE DAIRY.

## Scottish Cow Testing

In reviewing the work of a Renfrewshire
(Scotland) milk record society in the reot the Highland aud Agricultural society report of country, a writer says: "It may well be ques tioned whether any expenditure more profitable o Scottish agriculture has ever been made. The sidvantages of milk-recording may appear at first possessed animals of great milking capacity, and were able, by recording, to have the value of their stock attested and to realize the prices
which have increased from year best-milking stock Rut in point yoar for the benefit has been widespread. The fact that the milk-yield of 14,000 cows is now under systematic ing on among these a deliberate selection is go sequence in the agricultural economy of the con try. Its importance is attested by the kind and degree of improvement to be found from year to year in alnost every recording society. If this
improvenent were to average only of milk for each cow it might well renty gallons advance of twenty per cent. in the net profits of dairy-farning, but the effect of milk-recording goes far beyond the immediate economic gain, for
the result of such a selective process is tive ; and the creation on so considerable colle as has now been reached of a breed scientifically and systematically tested for excellence in milkproduction must act powerfully through the in-
fluence of selected buls Huence of selected bulls on the whole dairy stook producing districts."
The milk-testing movement is wide in the dairy districts and well it should. "Boarder" cows live at the expense of their heavier-milking sisters and lower the average of
the herd until very often the output is so small as to make the margin of profit very meagre and
sometime elimina and milk-records should be prether. Cow-testing in the country. It requires but very little time rohber che best kind of sleuth to run down the of the provitable animale
scours and and milk for the young calf. It means
ng thas consdered, the best method of build daughters of high-record cows.

Even if the heifer is nearly drỳ keep on milking her as long as possible during the first lactation
period. If allowed to dry off early this time the will do it again, and if kept milking a long

Every cow should have a few weeks rest be much lactation periods. Six weeks is the developing foetus, she should not be called pon to give milk during this time.

For the good of the herd later on a heifer may is much gained in the It is doubtful whether there reshen at an extremely early age having heifer development is impaired as well as that of thel firspring, and it is generally safer to defer the six to thirty mor

## POUL TRY.

## A Poem to Opden on Dueks.

Editor "The Farmer's Advocate"
Peter McArthur has been saying of the duck, a Well, it is not hard to make poems about it mine, and hope you will like it. DUCKIES.
Duckies, duckies, duckies,
All in a row;
To the creek they go
Looking for the slimy bugs,
Snails, and minnows smail,
And of fowls that gobble stuff
Ducks can beat them all.
Paddle, paddle, paddle
Out they Gabble, gabble, gabble Don't they make a din Don't they have a jolly time Don't they make a row
Holding business meeting

Clatter, clatter, clatter See them beck and bow
Patter Patter, patter, patter. See them preen their feather See, their wings they flap,
And for all outsiders
But alas, soon comes "Thanksgiving, And tho duckies' heads, Make our feather fer
And we lie so comfy,
When the nights are cold
Are eaten up, or sod
Duckies, duckies, duckies
Duck is to me the very
Of fowl there is tory best
Long, too long, the turkey
Has held the place of stat
But get a piece of juicy duck,
And, "ooh," but it is "
mRS. W. BUCHANAN

## Crate Feeding.

Bdrbor "The Farmer's Advocate ":
For years there has been and still is a con tinual cry from the large buyers of poultry that by far the larger percentage of the poultry that receive is not properly fattened ready for killing True, here and there the farmer penned up his chickens for a week or two before selling and gave them all the cracked corn or whole grain they would eat; but the majority were just penned up the night before the huckster was coming, stuffed to their utmost, so they would weigh heavy, and ot go at that
Just skin and bones, parce does not like to buy here and there enterprising individuals have begun to take these poor lean birds and fatten them grade of poultry they receive from half more than for the poor stuff. By this simple process of crate-feeding the birds are not only made better but there is quite a gain in weight.
One would sold his pigs and cattle in a lean state to the he
her and let him fatten them. Fattening of fowls is just as much the rightful business of the
farmer, and any farmer who sells his fowls in farmer, and any farmer who sells his fowls in poor
condition without first fattening them is letting the other fellow get a protit that belongs rightully to him.
Many people seem to think the process mysteri appears to be about the method I employ, and it I have visited in various parts of Canada, is about as follows :-
square and of number of crates about 18 inches tom to allow the droppings to fall through, and slatted up and down in front to allow the birds crates into apartments about two feet long, so as o hold three or four birds nicely, according to size. These are placed on trestles to allow the tier high a space about $4-6$ inches is left batween the tiers. In this space is slid a shallow balve nized-iron pan, which catches the droppings from
the crate above. nailed to each end of the crate a notch in it is trough usually made of $\frac{1}{2} \times 3$ or 4 inch supports a These should be made of planed lumber, so they can be easily kept clean. Crates made in six-foot be of any length. One cannot make a fist-class porker out of a
runt, neither can ke make a first-class table fowi runt, neither can ke make a first-class table fowl
out of any old kind of bird. For the best re sults I prefer a Plymouth Rock, not too big
boned, and Wyandottes or Rhode Island grown on free range on the average farm, wher they have enough feed to keep them growing nice-
ly. Along about this timee of the these weigh four this fime of the year a lot of less, and in some cases a little heaviber. a little
are the fellows the fatteners like to pure are the fellows the fatteners like to put in the
crates. Of course, with the many breeds crates.
now being raised, there with the many breeds of fowl
doubtless doubtless do as well, but these are, perhaps, the three most common general-purpose fowl. Of the Island Red experience has been that the Rhode
Isll make the greatest gain in the
shortest shortest time, but I should not like to say that the quality of any of them is superior to that of Having provided the crates.
up a wet mash of ground grain, fairly thin, and let set over night, or if in the morning, until night, so it will get just a little acid, but not too mixture of about equal parts of generally feed a corn with some low-grade flour added. If you have milk available, by all means mix the mash
with it, if not use water and add a meal. I have had very good results usinc ground who use a I know some very successful feeders has been a proportion of ground buckwheat. It much difference what you feed as how it is fed. I begin by feeding lightly for the first dav so as not to give all trey will ughs at a time else they will gorge themselves, and if voll or that, it is best to let the birds run for a woek or seem to have put in the crate agrain. When they and give water to drink. This may the trough trouch until next feeding time.
in half an hour in the give all the birds will eat in half an hour in the morning, then clean the doing this the birds will he always ready to eat. About twice a week provide plenty of grit. Keer a sharp eye out for any birds that refuse to eat. crate and let them run for a few days. If the birds are recularly fed morning ing (1ong enough before dark so they will have the breast-hone will to fifteen days to three week the skin will have that soft kid-glove feel. Some
may take a little longer, but it is not advisable


A Large Poultry-house.

to crate-feed too long. I always judge by their individual condition. Usually three weeks is
quite sufficient. I have tried feeding tallow the quite sufficient. I have tried feeding tallow the
last week, but it seemed difficult to get the birds lo week, but it seemed difficult to get the birds
to eat it troughs. If I had a cramming machine I would certainly use it.
in regular opinion, the secret of crate-feeding lies the troughs foeding, and being particular to clean the troughs after the fowls finish eating. This experience has been where this is not done the fowl get poorer instead of fatter. If one cannot observe these two points, and must heave the
troughs full of feed them run.
In a regular fattening establishment one man
can attend to two or three thousand birds number depending on the convenient arrangement utes building. On the average farm a few min ates a day will suffice to feed a hundred birds in Not only should young fowl be crate-fattened before marketing, but old fowl as well. If the and even if they are fat a week in the crate will o wonders in making a tender bird. crate wil feeding, but my experience has been that cratefeeding will make on an average 2 -birds, weighpound, into 135 to 145 pounds, worts 17 c . a 18c. a pound, in three weeks' judicious feeding. There are various ways of killing, but for best results most buyers prefer birds properly bled by the mouth open with the thumb one skull. Hold the left hand, insert the bhade of a fmall knife with the back of the knife next the thumb, pushcut as if you were the neck joins the head, and This will cut one artery. Then turn your off. over and repeat the operation on the other side Then pierce the brain through the roof of the through the hook a can with a weight in it If the brain is properly pierced the feathers will Just roll off. In some establishments the bird is stunned by a blow on the head, and most of the
feathers are picked off before it is bled as des cribed. While this may moke it is bled as desmany cases the bird does not bleed freely. If properly bled and brain pierced there is no need that poultry ought always to be dry-picked say cept for home or immediate use
on the wishes of the buyer. be packed depends updozen in a shallow box, neatly Generally about a ment paper, with the weight and number of birds contained stenciled on the outside, is preferred. No matter how you pack, be sure to sponge off As to where is the best place for the facking. sell, the large poultry houses in Montreal, Toron"'The Farmer's Advocate whom are advertisers in pay a good price for first-class crate-fattened poultry, far more than can usually be received in will have to be a matter As to which dealer, that In this connection, let me moice.
armer in many cases sells his remark that the Or the table on many of the smaller markets of fowls alive in Toronto or London for the same trouble of dressing them for nothing. Many of poultry must be markets rave a regulation that poultry must be drawn before exposure for sale.
At the present time, with chickens bringing selling chice weight in Toronto, many farmers are selling chickens. feathers and head off, and drawn,
for from 1 gc. to 20 c customers when they go to the butchere same least this much for undrawn fowl. This market cequlation regarding drawn ponltry was no doubt caused by farmers exnosing for sale birds with
full crops, but it would he greatly to the farmer's advantage, and much safer for the town people's health, if poultry were starved and then sold in
the local markets undrawn. If the farmer would
only and weigh up a few lots of birds before killing weigh next morning after the poultry is cooled and
dressed, there would dressed, there would be a sharp adjustment in
dressed poultry prices. dressed poultry prices. Blood, feathers and en-
trails weigh heavier than they To sum up the whole matter, for the farmer to
make the most out of his poultry, he must keep pure-bred fowls, preferably poultry, he must keep
the American treeds When voungsters, crate-feed and plenty of room
bleed. hleed, pluck and neatly pack. finally carefully
Such poultry
brines the top prices.
I.incoln Co. Ont

Give the poultry the same attention, the same larger stock get, and they will make a greater the
turn for the canital turn for the capital invested than a greater re-
classes of live-stock

OCTOBER 10, 1912
GARDEN ORCHARD. Gpoweps Should Control Evapopators Canadian fruit-growers find evaporation the
most convenient method of disposing of inferior grades of fruit, but owing to the small orchards
and the lack of co-operation, much valuable fruit for evaporating purposes is entirely wasted. In
view of the large quantity of fruit lately blown view of the large quantity of fruit lately blown
off the trees, and the additional fruit that may b expected to fall during the usual storms before th close of the packing season in October, it would growers to organize the evaporating industry, not
only to secure a product better but also to utilize a far larger quantity packed, lower grades of fruit. This can be most conveniently done if the apple-growers unite into coposes, but for the purpose of establishing pur rators. An evaporating plant is not an expensive plant, nor is the necessary skill for managing
it beyond that which can be readily obtained The only really useful evaporator to the fruitCower is the one controlled by the fruit-grower.
Privately-owned evaporators seldom prove of much value to the fruit-grower, nor are they likely to promote the reputation of the country for good

A domestic quarantine has been established by the United States Department of Agriculture out of the United States Mainland the Mediterranean Fruit-fly, which exists in that island dependency.

## APIARY.

## An Open-Air Beekeeping Exhibit.

 ed on the grounds osition in San DiegoAmong the many unique features of the Panbeing planned an open-air bee-keeping exhibit is we installed on the exposition grounds where there will be fully equipped apiary with honey house, illustrate just how bees are managed, and how all of the operations attendant upon the production and removal, packing and shipping of honey comb-honey apiary and a queen-bee rearing apart ment, containing representatives of all of the arieties of bees of commercial importance and the methods employed in raising and introducing the A novel feature of this exhibit will

## THE FARM BULLETIN.

P. E. Island Exhibition

The Prince Edward Island Provincial Exhibi tion, which opened on Saturday, Oct. 24 th, and
lasted four days, was favored with ideal weather from start to finish. The attendance was the largest in the history of Island exhibitions. The management did everything possible to make it
pleasant for everybody and there was very little pleasant for everybody and there was vers.
friction evident in any of the departments. On account of the very late harvest here, farsmaller thans made the show in many respect smater than usuat, still there was a fair repre
sentation of all the products of the farm, gar den and dairy of excellent quality to the fore, A great attraction near the main entrance was
the tastefully arranged exhibit from the Experimental Farm, containing many varieties of
grain in sheaf and hottles ers, etc., which gave a very good idea of the excellent work done at that station by Superinon hand at all and himes staff, some of whom were ed in producing the exhibits and answering ques-
tions on all matters connected with the farm. he show stock was not quite up in all respects
 that our stockmen have a high ideal which they Shorsthonn cattle, which had been making a
Sery pors showing of wot very poor showing of late, put up a better e
hibit this year. There were two herds on exh Dition, each of which contained good specimens,
especially in cows and young stock. The honors especially in cows and young stock. The honors
iT his class were divided principally between
it Thiomas Cass and Frank Sanderson. In Ayr-
shires the show was fairly strong and the qual-
ity good. Easton Bros., who are veterans in lottetown, got the red for his two-year-old stalCondition, headed by Howie's Crusader, bred by yearling stallion. Amonds got the red ticket for
James Howie, James Howie, Hillhouse, Scotland. They got class were Edgar Heartz, W. W. Crosby and John the herd prizes, and also first and championship cows and young stock. The other tickets on hibitors, and strong competitors in some sections with Eastons were A. McRae \& Sons, who have in recent years built up a herd of Ayrinent among them being Milkmaid, with an ommilk and 492 her credit of 11,673 pounds of form. This cownds of fat in her two-year-old championship of the freed. McRe also and also number of red tickets on young stock.
herd in fine form Roper Bros. were out with their cuit of exhibitions, including Ottawa, from which they had just returned so successful. from which most of the awards. Other entries in this class a share of the herd of James M. Roper, who got
In Holsteins, Iea \& Clark brought out a herd of 24 which, besides being of the very best breeding, give strong evidence of being performers at the
pail. The herd is headed by pail. The herd is headed by Ida Rooker's Second,
sired by this year's champion at Toronto. This herd was very strong in milch cows, but had been sold out of young bulls at previous, but had been
a ferv in this herd a ferv in this herd have a place in the Record of
Merit test. Most of the awards went to this herd.
One . Most of the awards went to this that evinced great herds at the show, and one heavy-nroducing, well-bred Jerseys owned by Wilnaught of St. Lambert, at the head, was first and champion. The cows are an excellent lot of
producers producers, and the young stock gives evidence of
great care in breeding. Sylvia is one of the best cows and has of Maple Grove of 450 lbs. of butter in a year, with a test record The Clydsplay of horses was, as usual, good. In outstanding winners. The first was the two dale stallion, Baron Kelvin, owned by John Richards, a Scotch-bred horse, sired by Baron's Pride,
9122 . This horse burgh in 1908, and after coming to at Edinfame and champion at Toronto, 1911 ; at Ottawa sive fellow of Winter Show. He is a big, masthe hest of feet and legs and good action, with the easily first and champion. The other Hes She was char mare shown by Wm. M. McRae. with foal at foot in her class and first for mare ticket. She is perhaps as good as got the red ever shown here, being of good weight, and nice, The second-prize stallion was an Island-bred horse, shown by George Dockendorff., a good spe-
cimen of the draft class. P. C. Brown,

Tweedie. Eagar Heartz, W. W. Crosby and John The Carriage class had some good specimens, sections for mares and fillies. Whecially in the first for carriage horse over 15 hands high. John McPhee got second for aged stallion. Byrne Bros., Albert Boswell, John A. Cumming and a Sheep were wong the winners.
so full as they generally are. All the wreeds usual were in evidence, dind the exhibitors pretty much the same as in previous years. Boswell
and Nunn were among the largest exhibitors Leicesters and black faces. largest ext The pig pens were well-filled and represented all the breeds usually shown here. Among the die and Ings. Yorks were shown were P. Bro W. Callbeck and others. The exhibit of poultry was quite large, and represented all the principal breeds.
Dairy produce made an excellent Dairy produce made an excellent showing. The and were all well up in the nineties. A large number of the factories had exhibits.
The record attendance The record attendance at this show was due which made four flights during the show. This aiven first exhibition in navigating the air ever

## The Nova Scotia Ppovincial

 Exhibition.Another important event, which should mark year's progress in agricultural affairs has passed. in our progress, we do not wish a milestone impression that there was no progress worthy of note, nor that our Provincial Exhibition did not We believe that in no part of Canada have farmers made greater advancement of late years that our Provincial Exhibition has been a potent actor in our progress. Yet, we are forced to confess, that to a stranger visiting the city of sion might be easily otherwise. This is due to various and reater
City people, as a class, do not pre reasons. preciate agriculture, and consequently do not entiluse over an agricultural exhibition. Cheap
railway rates bring a lot of people to the city to whom the exhibition is a secondary consideration. They wish to be entertained rather than instructed, consequently the visitor who goes for inspira-
tion and education hears to much talk about the "exhibition being the same old thing over again." "same old cows,", "same old horses,", "same old
fakirs," etc. While a great deal of this sort of talld


THE FARMER'S ADVOCATE
FOUNDED 1866
is with harmless intent, or comes from ignorant Symes. In other sections he had about an equal
and irresponsible people, we are only human, and number of entries.
are adversely impressed. are adversely impressed.
Furthermore, the fact that the Fair Board re- side talent was very indifferent. However, at the ceives no grant whatever, the expenses being
equally borne by the Provincial Government and the City of Halifax, gives adverse critics an and portunity to howl about deficits, a word which vours of failure.
Some people claim that the increase in the number and interest in our local fairs, has taken Provincial Fair. Personally, we do not think so; we need both. The worst features about country fairs are that local papers, and local politicians the exhibits. The exhibitor and visitor are led to believe that the prize winning animals at these local shows are ideals, when, as a matter of fact, instances, would be "trailers" in a ring at the Provincial Fair.
However, to a close observer, the Fair which
has just closed has been the most/successful in
The opening morning was far from pleasant. going to the city. The fact that the Rt Hon R. L. Borden, who was expected to open the fair found it impossible to be present, kept city people matters worse, the "air man" who was looked upon as a great attraction, tried a flight and had a mishap-broke his machine, and was quite seriously injured. The management retired that For the balance of the show, the weather was
all that could be desired. The judges hand early the second day, and were at work placing the awards on Ayrshires, Shorthorns, ments.
HORSES.-Light horses were not up to the average-the only entries in Thoroughbreds being
a brood mare and foal shown by Alice O'Brien. stallion class, Dr F. A. Retter showing. In aged first with "Maid's King"; the blue went to G Mader on "Marshall M.", and the third to ray was first, and L. B Dodge, Angus McGilliv two-year-old out was a strapping big colt shown by Miss E. L. Mosher. This fellow won second money from five starters in the colt stakes. For James A. Chisholm; second to Angus McGilli to and third to T. D. Blaikie. There were only two four-year-old fillies out-First going to Halifax stables, and second to Marion Blaikie. The only and in two-year-olds, Angus McGillivray. Mr. Mader's "Marshall M.", Angus McGillivray. Mr. While the Roadsters wer get.
there were a few excellent individur a mixed lot, winners were: G. A. Mader, R. R. Bachman it F. Grant, C. H. Wisner, Marion Blaikie, Robt Settle Jr., Fred Parsons, and L. B. Dodge.
In the Carriage class there were only four enIn the Carriage class there were only four en-
tries out. In the General-Purpose class there was only matched teams. In three-year-old sear-olds and
prizes went to prizes went to M. Dwyer, Wm. O'Brien, and John
McDonald, in the order For matched teams Fred H. Deal, W. W. Black
and John R. McKenzie Heavy Drafters made a much better In section for mare or gelding, four years showing ppwards, Sharp \& McNeill got first and second old section went the same way except third place
which went to which went to Jas. Leslie. In two-year-olds.
Wm. O'Brien was first: John R. McKenie Wm. O'Brien was first; John R. McKenzie, secoñd;
and Sharp \& McNeill, third. The yearling sec and Sharp \& McNeill, third. The yearling sec-
tion went to Sharp \& McNeill and Geo Dawes.
Brood mare, with Brood mare, with foal by her side, went to M
Dwyer, Wm. O'Brien and J. F. Grant. In match ed teams, O'Brien was first, and Sharp \& Mc-
Neill, second. R. A. Snowball had it pretty much all his own
way in Hackneys. He had a very nice horses brought out in good fit, and deserved his
winnings. The only other entries were NoF winnings. The only other entries were McFar
lane Bros., who got second in the aged-stallion classes, and Jas, D. Cox in the three-year-old In the two latter classes Snowball had no entries. Percherons wips went to Snowball.
Previous fair, and while there were some at any previous fair, and while there were some good in-
dividuals, they did not create much excitement. The only sections where there was, were in aged stallions and yearling fillies. In aged stallions J. M. Wentzell's entry had to give way to Frank
side talent was very indifferent. However, at the
first call of this popular breeds, crowds began to gather and interest was keen. Although neither of Amherst Point, (two of our most extensive breeders), were out, the sections were fairly well filled. The aged-stallion class brought out six
good ones. Quality was an outstanding fentur good ones. Quality was an outstanding feature.
However, as too often happens, size was somewhat lacking. McFarlane Bros.' "Baron Squire"' a horse of beautiful conformation and quality, and a splendid mover, went to the top. Snowball's
"Baron Belgradden," bred by R. S. Starr won "Baron Belgradden," bred by R. S. Starr, won the In the three-year-old section, Snowball won first and McFarlane second. In the two-year-old sec cellent quality, with O'Brien second. Blanchard brought out the only yearling. brood mares with out the only yearling. In
the only entries. In section O'Brien had the only entries. In section for mare four years old and over, three good ones came out first
and third went to Snowball, with W. W. Black between. At St. John, "Miss McKay", (W. W. Black's entry) had to be content with third place in the same company. She had been unhitched few days' rest had brightened her up wonderfully R. S. Starr, who had placed them at St. John, readily conceded her right to the place which Mr.
Henderson gave her at Halifax. Henderson gave her at Halifax. The next few
sections went to O'Brien and McFarlane Bros with little competition. There was considerable interest in the male championship. The Corsan together, Mr. Henderson did not take the came it to McFarlane's "Baron Squire." Snowball Won female championship, and award for stallion
and three of his get, also the Fairbarks cup for and three of his get, also
best five horses, any breed
CATTLE-While entries
numerous at previous fairs may have been mor especially in dairy cattle, has never been ex Shorthorns-This breed made a better showing than it has for some years. Besides the Snowball, Dr. I. M. Lovatt, of Yarmouth, a ne exhibitor, showed a very creditable lot, and A competitor who some years ago was a formidable showed some excellent young animals blar breed, bulls, with only two out, Archibald's massive "Prince Ideal" was an easy winner over Snow championship prince Ideal later carried off senior yearlings, there were only two out, In red going to, Snowball, and blue to Lo tovatt Snowball had the only junior yearling. Calf, six
months and under one year, went to Grifin months and under one year, went to Griffin, Ar
chibald and Lovatt in the order named. Lovatt had the only entry in calf under six months There were five out in aged-cow section. ArchiIn the three-year-old thection, with Lovatt between. first and third, with Section, Archibald was again creditable lot of two-year-olds came out, Snow ball winning all the honors. The same animals were placed quite differently at St. John. In
senior yearlings, Lovatt was first and third and
Snowball second Snowball second. First and second went to Snowball, and third to Lovatt, in junior year-
lings. In section for calves six months and under a year, Griffin was first, Snowball second and was one of the best years and was later selected for championship third to Lirst and second went to Archibald and Griffin was first and Archibald second for best three animals the get of one bull. For best two animals the progeny of one cow, Snowball won
over Archibald. Snowball and Lovatt contested
for honer in for honors in breeders' young herd, the former graded hord, with Snowball second.
in Heorefords-W. W. Black's Herefords were out in good form. He won all the firsts except in ection. The Aylvard was the winner in this were three seconds to Wm. O'Brien. The chamGranhips went to Black.
Grades-In grade beef cattle, W. W. Black the way, with Wm. O'Brien, who had some good
stuff, the next largest winner. stulf, the next largest winner. Other winners in
this class were Thos. Aylward and F. S. Cong-
don Devons-Devons were shown exclusively by lass a little competition might be beneficial. Ayrshires-Lovers of Ayrshires must have heen
pleased with the splendid showing made by this popular breed. In aged bulls, five maunificent
animals came out. There was a great

However, after due consideration, Alf. Kains, the yeteran Ayrshire judge, decided in favor of Mcand third went to M. H. Parlee and C. P. Blanchard in the order named. No entries in the wo-year-olds. Senior yearlings brought out a
lot of good ones. McIntyre Bros. captured red, M. H. Parlee and Easton Bros. following. In the junior yearlings, McIntyre Bros. got first, C. P. Blanchard second and Retson Bros. third. For calf six months and under twelve, the rib-
bons went to Blanchard, McIntyre and Retson Bros., respectively. In section for calves under six months, Parlee, McIntyre and Easton Bros. won in the order named. In the aged-cow sec-
tion, there was not an ordinary one in the teen, there was not an ordinary one in the thir ter to select winners, and the judge took his time. He finally placed McIntyre first and third, The three-year-old section brouncht entry between. good ones. Blanchard was first, McIntyre second and Retson third. There were ten senior yearlings out. McIntyre led the way, with Eas-
ton and Blanchard following. Six junior lings came out and they were such a uniforml good lot that the judge said it did not mak
much difference how they were placed. He finall settled on the McIntyre entry for first, with
Blanchard and Retson next. planchard and Retson next. Easton Bros.' flrst herd prizes went to McIntyre, Parlee and Blanch ard in the order named. Young herds went to
McIntyre, Blanchard and McIntyre, Blanchard and Easton Bros. McIn-
tyre secured both championships. gold watch donated by M. Brown Come the best herd consisting, of eight females and one male of any breed, was also secured by McIntyre. J. D. Irving, with his Holstein herd, was a very
close competitor for this coveted prize. cose competior for this coveted prize.
Jerseys-H. S. Pipes \& Son had most of the
entries in Jerseys, and won all the first prizes entries in Jerseys, and won all the first prizes
except three. Their herd was brought out in fine
condition and deserved their honer Guernseys-Perhaps in no one breed has im-
provement been more marked than in provement been more marked than in Guernseys. H. W. Corning and Roper Bros., D. G. McKay,
from from Scotsburn, Hugh A. Dickson, T. D. Blaikie and John McDonald all took a hand in the game. three years old. Corning divided the buld cow the reds equally. The other exhibitors made a pretty fair division of the balance of the prizes from either of thugh there was not an entry Samuel Dickie \& Sons or Logan Bros breedersmade an excellent showing. Their place wa rving, Buctouche, N. B. while entry from J. D. who has recently purchas large entries. Irving, good ones, brought his animals of Logan Bros. dition and won the big end of the money. He is to be congratulated on the start he has made. but not in quite so good fit as Irving, good stock, but not in quite so good fit as Irving's.
cattle, and with few exceptions they were nd arg
high-class. Sheep-There was a fairly good show of sheep,
mostly from Prince Edward walls, who seem to Edward Island. The Bos tives of most breeds and brought their sheen of the ribbe Cephas Nunn captured a good share while he tibbons in Shropshires and South Downs, J. E. Baker \& Sons and Burder Goodwin divides. the prizes for Oxfords. Retson Bros. and Bos
walls fought it had it all his own way Leicesters, while Symes. Swine Cephas Nunn competed in Dorsets. Bos Swine-The swine entry was not largets. York-
shires being the most numerous. They were
shown by Keillor, whose winnings were in the order C. J. H. W. Corning had it all his own way in ChesJersers. and Baker swept everything in Poland The entry of poultry was good for such an Ronts and veretahles were fair and the show
fruit was excellent.

Shipping Milk to Toponto.
$\qquad$ now draw their milk supplies, dairy farmers at Dorchester, in Middlesex Coples, dairy farmers at
Coen Ont., have lately


october 10, 1912
The Broader View

THE FARMER'S ADVOCATE.
1763
and because of the abundance of fresh air we do ing to manufacture daily bread for the human not come into contact with those disease-produc- race. I mave been thinking that for the increase in in
ng sources in a way which the pelled to do. Then which the city folk are com- our ranks of fifty per cent. might stem the rising
lorourht about by thange of work tide of the high cost of living if it did not solve brought about by the changing seasons is some the problem, for with more and better help far-
thing too days there are too many departmentst. Now-a- mers would increase their production, and moretended with immutability more or less, so that over the excessive populating of the cities would any position with a fair amount of change in its mains-that is, farming and farmers will alway and respect. I do not deliberatel consideration be a necessity in this world, so let us put our but I doubt if any position could the exaggerate, best into life while we continue to hire out, knowcurs is, for to a a large extent we are free than ing that a higher position is only reached by hav-
ing done our best in the one below in disease, free from expense, free from accidents, Halton Co., Ont. I ree frown warre, and thus iree from loss. Some, Wallo Ionesome sort of life, which under certain circua stances is quite true, yet some of our best advantages are invented by this very lonesomeness. look into the future ren erfect upon the past or est can be put into our work, with the best time Somethingt calculation of things when alone. Something about the educational value of our po-
sition ought to be said that all that is necessary in the way of eduat say Tor making a successsul farmer comes within the range and scope of hired men, and any man who years, should possess some ways parallel with that of a student return ing from the 0 . A. ©. This educationt may be
three-fold, comprising what he gets from mis experience, what his master or other persons on
the farm tell hin and farm tell hirn, and what he learns from papers
cat journals like the much-prized Farmer's Advocate. It is also both interesting and inspiring
to note that we are co-operating with the mightiest forces that keep co-operating with the might-
ming. Truly

Acting Canadian Trade Commissioner, J. T, Lithyow reports from Berlin that the German
harvest will be lighter than usual this seman and the probabilities are that there will be good market for Canadian apples. Last season and fully as many will be wanted Hamburg, and fuly as many will be wanted this year.
Mixed varieties in small lots are not desired Hamburg dealers, who are asking for lots of 500 to 1000 barrels put up by the same packers unknown and appreciated for reliability become temperature and frequent rains are haviti, Low favorable effect upon the potato crop throughout (

We all enjoy the paper very much and feel something of interest along without it. There is Members of the family. Misery Farncomb for all Simeo Co, Ontin interesting and instruc
J. A. BONNEY.

| Farmer's |
| :--- | :--- | \(\begin{aligned} \& Advocate" that it seems <br>

\& necessary <br>
\& to <br>
\& reproduce\end{aligned}\)


ROUND-ROOFED PLANK-FRAME I intend building a barn $40 \times 80$ feet,
with sixteen-tot posts, on cement-block
hacement of an old barn that $I$ have, otherwise 1 would build a plank-trame. Would you
advise a round root for that width, as I would like to use two tracks? Could you give me an estimate of timber re-
quired; also material for root and inintend to have three mows 22 feet, and
$1-$ foot threshing-floor. Would two



 Ans- - plank-frame would be the best
sort of construction for your barn, and
hese have been thown

8 bolts 8 in. long, t-in. diam., with
washer. 80 lbs. 5 -in. spikes.
12 lbs. 4 -in. spikes.
Double these quantities to provide for

$$
\begin{aligned}
& \begin{array}{l}
\text { ONE INTERIOR BENT. } \\
4 \text { pieces } 2 \times 8 \text { in. } \times 16 \mathrm{ft} \text {. }
\end{array}
\end{aligned}
$$

$\begin{array}{r}2 \text { pieces } \\ \text { supports. }\end{array} 2 \times 10 \mathrm{in} . \times 29 \mathrm{ft} .6 \mathrm{in} . \quad$ roof
$\begin{aligned} & 2 \text { pieces } 2 \mathrm{x}: 6 \mathrm{inf} \times 11 \mathrm{ft} .6 \mathrm{in} \text {. sub. sup- } \\ & \text { ports. }\end{aligned}$
$\begin{aligned} & 4 \text { pieces } 2 \times 4 \mathrm{in} . \times 8 \mathrm{ft} .6 \mathrm{in} \text {. struts. } \\ & 2 \text { pieces } 2 \times 8 \text { in. }\end{aligned}$
$\begin{aligned} & 2 \text { pieces } 2 \times 8 \text { in. } \times 5 \mathrm{ft} .4 \mathrm{in.} \text {. main ties. } \\ & 2 \text { piceess } 2 \times 6 \mathrm{in.} \times 4 \mathrm{ft} 9 \mathrm{in} \text {, sub ties. } \\ & 2 \text { pieces } 2 \times 6 \text { in. }\end{aligned}$
$\begin{aligned} 2 & \text { pieces } 2 \times 6 \text { in. } \times 8 \mathrm{ft} .4 \mathrm{in.} \text { braces. } \\ 2 & \text { pieces } 2 \times 8 \text { in. }\end{aligned}$
$2 \times 8 \times 20$ ft. cross sills.
$\begin{aligned} & 2 \text { pieces } 2 \times 8 \text { in. } \times 2 \text { ft. short sills., } \\ & 2 \text { pieces } 2 \times 6 \text { in. } \times 19 \text { ft. }\end{aligned}$
$\underset{\substack{\text { stiffers. } \\ 2 \\ \text { pieces }}}{2 \times 6 ~ i n . ~} \times 21 \mathrm{ft} .10 \mathrm{in}$. purlin
post stiffners.
$\begin{aligned} & 4 \text { bolts } 11 \text { in. long, with weshers. } \\ & 14 \text { bolts } 7 \text { in. long, with washers. } \\ & 24 \text { the }\end{aligned}$
$\begin{aligned} & 24 \mathrm{lbs} .5 \text {-in. spikes. } \\ & 6 \text { lbs. } 4 \text {-in. spikes. }\end{aligned}$
$\begin{aligned} & \text { Make bill as above for } \\ & \text { quired inside of end bents. }\end{aligned}$
$\begin{aligned} & \text { quired inside of end bents. } \\ & \text { Side timbers and rafters can be easily }\end{aligned}$
$\begin{aligned} & \text { This frame provides for roof with hip, } \\ & \text { Thated bent }\end{aligned}$
This frame provides for roof with hip,
$\begin{aligned} & \text { Fun, both rafters being ther pame loot of length. } \\ & \text { A. A. GILMORE. }\end{aligned}$
appropriate scripture.
When Henry J. Horn, now assistant to Haven \& Hartford Raillooad, Work, New ion superintendent of the Montana divi-
sion of the Northern Pacific ived at Livingston, Montana, and married a Miss Josephine Robinson.
One day after the One day after the first baby came, Mr. and Mrs. Horn took the baby to church.
Mr. Horn carried the child. Mr. Horn carried the child, and as the
proud father and mother walked down
the the aisle the minister read from Daniol,
seventh chapter, eighth verse: "I considered the horns, and, behold, there
ame up among tham another Came up among them another 1ittle
horn." -Saturday Evening Post.
His Father (after punishing him)-It
urt me more to whip you than it did Tommy-Then all I've got/ to say is
hat you can stand an awfolil lot of pun-
shment without hollering.

## MARKETS

## Toponto

Review of last week's markets At West Toronto, on Monday, October cars, comprising 1,012 cattle, 203 185 shomprising 1,012 cattle, 203 hogs,
horses. No lambs, 43 calves, and 17
Nosiness was being tran horses. No business was being tran-
sacted, but it was thought that prices
would be the same would be the same as at the end of the
previous week for cattle. Hogs were lower, selects, for and watered, being
quoted at $\$ 8.25$, and $\$ 7,90$ quoted at $\$ 8.25$, and $\$ 7.90$ f. o. b. cars.
The total receipts of live stock at the City and Unio
were as follows

| Cars | 69 | 415 | 4 |
| :---: | :---: | :---: | :---: |
| Cattle ...... .... | 557 | 5,596 | 6,153 |
| Hogs ...... ...... | 2,324 | 6,189 | 8,513 |
| Sheep ...... ..... 1, | 1,878 | 4,776 | 6,654 |
| Calves ...... ... | 39 | 383 | 422 |
| ses |  | 13 |  |

The total receipts of live stock at th of 1911 were as followe

| Cars ...... ....... | Cit | Union. | Tot |
| :---: | :---: | :---: | :---: |
|  |  |  | 582 |
| Cattle ...... .... | 3,615 | 3,338 | 953 |
| Hogs ...... | 6,350 | 7,498 | 3,848 |
| Sheep ...... ..... | 6,331 | 2,663 | 8,994 |
| Calves | 528 | 104 | 32 |
| Corses |  | 115 | 115 |

The combined receipts of live stock at the two markets for the past week, sho hogs, 2,340 sheep and lambs, 210 calves and 102 horses, compared with the sam It will be seen by the above figures
that the live-stock especially for cattle. Trade, as a conse quence, was dull, and prices declined from 15c. to 25 c . per cwt. for the butchers
classes, and 25 c . to classes, and 25 c . to
exporters, of which
there bought and shipped during the week There was an excellent demand for feeders and stockers of good to choice qualwhen the prisesent value of export steers is considered. Millers and springer ld at steady to firm prices. Veal was a liberal supply, remained about steady all week. The hog market was
easy ${ }_{\text {all }}$ all week, at $\$ 8.75$ for selects, fed and watered at the market, and $\$ 8.40$

1. o. b. cars at country Exporters.-On Tuesday, W.
bought for S Sift \&esay, W. Howard
campany, of Chi-
cago, 98 steers for Liverpool, averaging
$1,259 \mathrm{lbs}$., at an average of $\$ 6.15$.
range in prices of $\$ 5.90$ to $\$ 6.25$ : two bulls, 1,590 Ibs. each, at $\$ 5.35$. two
On
Wednesday, Wednesday, the same firm bought 100
steers for London market, 1,260 los. average weight, at $\$ 6.15$, or a range of $\$ 6$ to $\$ 6.25$; also 100 steers for Liverpool, 1,235 lbs. each, at $\$ 5.99$ average
price, which was a decrease of 16 c . price, which was a decrease of 16c. per
cwt . for the same grade of cattle. Many of the above cattle cost the drovers $\$ 7$ and $\$ 7.25$ per cwt. in the country, having been bought some time ago, before tumble.
the choicest butchers' reached or 50 $\$ 6.55$ during the week reached $\$ 6.50$ to elected $\$ 0.25$ would be the top for the $\$ 5.75$ to $\$ 6$; medium, $\$ 5.25$ to $\$ 5.40$ $\$ 4.50$; cows, $\$ 3$ to $\$ 5.25$; canners', $\$ 1.75$ to $\$ 2.25$; bulls, $\$ 3$ to $\$ 5$.
Stockers and Feeder
choice quality sold at the highes prices of any stock on the market,
Steers, 950 to 1,050 1bs., broughtit $\$ 5.55$ to $\$ 5.75$, the latter price heing just 50
cents per cwt. less than the best-inished export steers. sole to $\$ 5.40$; stockers.
900 lbs., $\$ 5.25$ to to 800 lbs., $\$ 4$ to $\$ 5.25$, according
quality, and
common yearlings of quality, and common yearlings of it there are Par too many in an old Prov
Ince like Ontario, sold from $\$ 3.50$ to $\$ 4$ per cwt.
Mikers and
be no eningers. -There seems to to the demand for good to choice milkers and springers. Trade for
them was brisk and strong all week.


## Chicago

 toers, $\$ 9.50$ to $\$ 6$, Western steers, 85.90

 Hogs.-Light, $\$ 8.60$ to $\$ 9.30$ mixed,
$\$ 8.80$ to $\$ 9.30 ;$ heavy, $\$ 8.40$ to $\$ 9.30$, rough, 88.40 to 88.65 ; pige, 85.25 .
Sheep and Lambs. to 84.25 , Western, 88.40 to 84.25 ; yearlings. $\$ 4.25$ to $\$ 5.40 ;$ lambs, native,
$\$ 4.50$ to
$\$ 6.85 ;$

British Cattle Market. John Rogers © Co., Liverpool, cable
itc. to 13c. per It. for Irish steers.
$\qquad$
A storekseeper recently had this experi"I'I yo" got enny haih fo' sale, boss?" "Haih, bosss."
"Hairr", ", "Hos
Yassuh, haih lak you got on yo'
Sead." "Oh, hair."
"Yassuh, hain."
"Why, no, aunty; this is a dry-goods Why, no, aunty; this, is a dry-goods
store, not a hair store," " Dat's what Ah 'lowed, boss; but misuus tole me to cum yeah an' get free
yahds mo haih lak she done got yis"Mas, you mean mohair.

Ethel, an honest man.
Ethel, aged six, had gone down the vil-
lage street with her new dolt be plainly seen that she was in dire distress. She entod still, and atter a close
scrutiny of several men who passed, she "Sasy, are you an honest man?" she ished "Why, yes, I think so,', was the aston"Well, then, if you're sure you're an
honest man," said the litttl

"Sary Ann," sighed the Higgins boy in
Urembling tones, (if I git a red ear at
 io somethin'"." "Are ye?" asked Sary o do ?" be". "What are ye a-goin"
 Inn, giving her head a saucy toss,
Mo can be sure you'll git two red ears
right amay,
 Eminent.
SIR David wilkie (1785-1841.)
When yet but a baby, scarce able
$\begin{aligned} & \text { do more than toddle about the door } \\ & \text { his home, he was found drawing the out }\end{aligned}$
$\begin{aligned} & \text { his home, he was found drawing the out } \\ & \text { line of a woman upon sand. "Who } \\ & \text { it } ? \text { " someone asked him, and the lisp. }\end{aligned}$
$\begin{aligned} & \text { it } ?^{\prime \prime} \text { " someone asked him, and the lisp- } \\ & \text { ing repply was ready, "It's bonnie Lady } \\ & \text { Gonie" (Lady Balgonie).- Thus early in } \\ & \text { Aife did David Willkie Roreshoty }\end{aligned}$
$\begin{aligned} & \text { Gonie" (Lady Balgonie). -Thus early in } \\ & \text { life did David Wilkie Roreshadow the } \\ & \text { career that was to be his. Truly "the }\end{aligned}$
$\begin{aligned} & \text { career that was to be his., Truly "the } \\ & \text { boy is father of the man." }\end{aligned}$
At school, it was the old story
$\begin{aligned} & \text { negrected } \\ & \text { pictures. 'He was the most sing with }\end{aligned}$
$\begin{aligned} & \text { scholar I ever attempted to teach," said } \\ & \text { Dr. Strachan, the master of the school }\end{aligned}$
$\begin{aligned} & \text { many years afterwards, when wilkie had } \\ & \text { attained the heitht }\end{aligned}$
makes the slightest attribute or incident
$\begin{aligned} & \text { of a life interesting.-And truly it was } \\ & \text { little wonder that the good schoolmas- }\end{aligned}$
$\begin{aligned} & \text { ter, as well as the good clergyman } \\ & \text { father-for Wilkie was a "son of the }\end{aligned}$
$\begin{aligned} & \text { manse"-was perplexed over the picture } \\ & \text { drawing lad and his apparently hopeless }\end{aligned}$
$\begin{aligned} & \text { future. What would you, reader, under- } \\ & \text { take to do with such a one? "cariot }\end{aligned}$
$\begin{aligned} & \text { demure, yet with an eye and ear to all } \\ & \text { the idle mischie? that was on hand in }\end{aligned}$
the school-roomi,", much was on hand in
thing in him." In London, as in Edinburgh, it was worse, -he was now on his own resources,
Little, perhaps Little, perhaps, he recked that he was
compelled to dine at the cheal compelled to dine at the cheapest places,
when he dined at all : in such knocking
about he came about he came upon many quaint and odd characters for his pictures. A more
irritating worry was the lack of money
to to pay his models, and, indeed, whenever
possible mate mate possible, he painted from his own reflec-
tion in a mirror, being caught occasion, somewhat to his embarrass ment, engaged thus dressed as an old
woman. He always wrote home, how ever, cheerfully. In the quiet Scotch
manse there manse there was no suspicion of the threatening even the breaking up of his health for sheer need of nourishment. But "the darkest of the night often comes just before the dawn." $\begin{aligned} & \text { night often } \\ & \text { his "Village Politicias.". }\end{aligned}$ In 1806 , the Academy, and proved to be the pic-
ture of the yen to ture of the year. While Wilke the picat home waiting for the verdict, his two
friends, Jackson and Haydon. rushing to tell him the gaydon,, were
They danced news. They danced about him, they put his
hat on his head, and dragged him of to
the Acader narracor, "were picture," says the delighted new shawls, ribbons, and satins, and sister. . . I never saw his mother and exprestic triumph as glittered in Wilkie's The encoura." "
ul into Wilkie. Hut new life and and admirers in plenty now friends them Sir George in plenty, chief among
and art-critic and art-critic, who became his life-long
friend. heart, he rapidly produced his wis high Fiddler" and "The Rent Day," his "Blind for the first time, could ease his home
sickness by a visit home sickness by a visit home to bonnie Scot
land. On his return, he painted the
".Vilu "Village Festival," which was purchased by J. J. Angerstein, for 800 guineas.
Then there followed Then there followed rapidly ""The a portrait of the Marchioness of Lanester, downe, and other picturces. Wilkie was
working more working more strenuously than ever, but now, when overworked, he was carried
off to one of Sir George Beaumont's rountry seats, usually to Coleorton, to has given us a glimpse energy. Haydon
 haunting 1 a irrs and
market - places, muct
given to spending
hall-days all all-days all alone in the fields gazing in-
tently at woods and Despairing of mak-
ing anything of the
lad but, possibly, a
painter last relented and sent him up to Edinburgh.
Here he occupied a small room, "up two
flights of stairs, and furnished chiefly with
a few sketches on the (f) ${ }_{\text {fid }}^{\text {a }}$ the working he spent the working hours of
the day at the Trus-
teea' teess Academy, nailed
down to morking upon the working
which the antique, which he detested, upon fairs and
gypsies. During the
time that he apent time that he spent
at the school, in deed, although h h
may have absorbe some pre absiples, hed
succeeded in finishing but two pictures of note, drawings of
himself
and himself and h is
mother, now owned mother, now owned
by the Duke of Buc-
cleuch. $\begin{array}{cc}\text { In } \\ \text { back } & 1804 \text { he was }\end{array}$ The Village Festival . worthies of his native village, making whelmed. "Poor wilkie was almost over- think of painting, talk of painting, Preaching Before he is i/ Joh for ream of painting We lingered

 Fair."
By
By another year he had sold the silently with a half-smile e his simple,
"Fair,
 great ambition in his heart. "There is is to tea very soon after-for wilkie could the." candle himself and made Wikie join
a raw, tall. pate
 passed away. At about the same time a brother returned from Canada, ruined

## 

 too, died, leaving a wear was out he,depending upon Wilkie as their family

## THE FARMER'S ADVOCATE

## Pickles.

[A paper read by Mrs. D. McIntyre, at the Women's Institute.] The custom of pickling seems to have the ancient Greeks and Romans highly the ancient Greeks and Romans highly roots, and vegetables, preserved by vine-
gar. All vegetables and fruit used for gar. All vegetables and fruit used for
pickles should be sound and pickles should be sound, and not over-
ripe. Fruit can be pickled as well as ripe, Fruit
vegetables.
The Vinegat
The Vinegar.-Use only pure vinegar in
making pickles making pickles, catsup and sauces.
Cider vinegar is usually considered about Cider vinegar is usually considered about
the best for this purpose, but some pre fer the "white wine." It is just a matter of taste, as vinegar is weakened by boiling, it should merely be brought ito
scalding-point, and then poured on the pickles. Using Alum in Parboiling.-If articles
to be pickled are parboiled or scalded to be pickled are parboiled or scalded,
they will absorb the vinegar they will absorb the vinegar more read-
ily, but they will not be so crisp. ily, but they will not be so crisp.
Cucumbers and gherkins are made crisp and green by dissolving a small lump of alum in the vinegar the frst time it is
scalded, but it is injurious to scalded, but it is injurious to the health
if too much is used. Spices.-Use spices judiciously, so that
all combine into a pleasant flavor withall combine into a pleasant flavor with-
out having one flavor predominate over out having one flavor predominate over
all the others, and do not flavor so strongly as to entirely disguise the original flavor of the article pickled.
Brine.- The rule Brine.-The rule for the brine used for
pickles is, " pickles is, "Strong enough to float an
egg." The proportion is about 1 quart of water to 1 cup salt.
The Kettle.-Use porcelain-lined or The Kettle.-Use porcelain-lined or
granite kettles for putting up pickles. granite kettles for putting up pickles.
Use silver spoons and forks (or alumiUse silver spoons and forks (or alumi-
num) for stirring, as the acids do not affect them.
Keeping of Pickles.-Pickles will become soft and spoil if exposed to the
air, hence they should always be ket air, hence they should always be kept
covered with vinegar. There should be two or three inches of vinegar over them. Keep the jar tightly closed. ${ }^{1}$
hot, they keep better than in any other way. Pickles should be kept in a dry, cool place. They are best kept in glass.
Never use glazed jars, as the salt and vinegar will dissolve the little lead used in glazing and form poison. No vessel which has held grease should be used for keeping pickles. Pickles are an agree
able addition to our food, but they should to eaten sparingly, as they are

## Some Old-Time Echoes

 we visit a boer homesteid.on trek in the transvaal.

Before our introduction to the Baas go through a little preliminary drill as guests. In what be expected of us as might be offered to us, we were bound to accept it. Refusal, even though to swallow what was handed to us might threaten suffocation, would be an unfor-
giveable offence. Having lesson, we presented ourselves at the door of a house which we were told was one decidedly cleaner and neater than is the rule in the Transvaal. It might
have been cleaner, certainly, but then, again, it might easily have been much dirtier, as we learnt by after experience.
There was no lack There was no lack of cordiality in the wercome tendered us, and, I believe, at
the initial function of handshaking all round, from the father down to the baby, we all acquitted ourselves with redit. We had learnt that, according
to Boer rules of etiquette, the hand to Boer rules of etiquette, the hand of
the father must be taken first, never that of the mother. taken first, never
To have reversed the order would have been an error of
breeding not to be condoned. breeding not to be condoned.
After this ceremony had been satisfactorily concluded, we were seated formal ly around the we were seated formal-
room. The frau place or livingroom. The frau never rose from her
seat, to which she mivht have waxed, so firmly rooted to it did she waxed, so firmly rooted to it did she
seem, her feet on the usual pan of char-
coal, and herself fast developing the
necessary amount of fat, which render eyes. She was very in her husband's consider I understood not a syllable thed, the table tolubility. By her side deposits and whose drawer she safely she can help it, any suag never, if band dutifully hands to her, she husthe purse-keeper, was a Canadian Weir's na-sewing machine, about some disarI might enlighten her. Could I hape
mome understood her I might have done have but silence was my best wisdom, and I expressed my inability by dumb show. the coffee, which is served without as a mark that you are received fail of the family. I had rather dreaded I might not quite likg been warned that I certainly did not. A young cirl letail. of the daughters, superintended the reshe Between the filling of each cup basin, holding more coffee small pudding water, by way of cleansing it pocket handkerchief, and the color of the Thiquor itself with which she smeared it. Theasure of equanimity, but with some wipe her own face leisurely at intervyl with the same, was just the one drop oo much which made the cup (our pened to the literal cup, by a sleight hand, which probably procured me spared me a nauseous draught but which leaving the farm we saw its fine Before orange and lemon trees, and bore ing as much delicious fruit, besides eatpaid for indirectly, I believe, They were del party who understood best how such mongst the Boers are arranged tself was small, which found its coin into the house-mother's found its way re rich and luscious as money - drawer, are, they have the additional virtuges heapness, to the additional virtue of


Let's make a Jelly Roll-
With FIV E ROSES flour.
It Strengith and Fineness hold your batter together in the long well-greased pan.
Bakes evenly.
Smooth Texture-soft, golden Crumb, spongy, porous, yielding.
No holes, nor lumps to vex you.
And when you turn it out on the damp napkin hot and savory, and you spread the under side with "jell"-
It doesn't get soggy nor crumbly
Roll it gently, carefully.
Not a crack-not a break.
Perfect Smoothness-a Perfect Roll—Yours.
Bake anything, make anything.
Melting puff paste-flaky pie crust-crinkly frittors-
looth some roll.
FIVE ROSES for anything-overything
Be flourwise



Take A Handfol or "St. Lawrence" Sugar Out To The Store Door -out where the light can fall on it-and see the brilliant, diamond-like sparkle the pure white color, of every grain. That's the way to test way we hope you will test 1 a arive suce

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 Better still, get a 20 pound or 100 pound bag at your grocer's and test "St. Lawrence Sugar" in your home.ST. Lawrence sugar refineries himited
MONTREAL

## 0










 spacious guartera? If you have not ont apon a chair fors all this time, why noed
you be oushamed to to Comes secondid nature quat ${ }^{2}$ Habit bo Another habit of theeso good folks maiy. even have tite excuse. In their journeyings on and on, seemingly without aim,
but really in search of but really in search of 'pastures new,'
water at times is a rare commodity, has to be husbanded with care. The barrel slung under the wagon is liable to emptiness.
usually packed $\begin{aligned} & \text { A. Dutch family wagon is } \\ & \text { full any beehive, }\end{aligned}$ with human bipeds of all sizes and ages, and in every stage of unwashedness. When bucketfuls would not
cleanse, what cleanse, what could a thimbleful do ?
Hence the faith put in the hall Hence the faith put in the half-filled
pudding-basin, and the tiny rag as a means of purification. The economy of
it recommends itsolf to it recommends itself to the Dutch mind,
whilst to the Dutch body it is deemed Whilst to the Dutch body it is deemed
all suffcient. Again, may' we not find
another another excuse for this maw in thot find
brothers. brothers? The old Dutch Bible sup-
plies the sole literature plies the sole literature they need. They
take the simple words, each and all their barest and most literal sense, without the aid of commentator or note. Frequent mention they find of the old
custom of washing the hands and feet as a ceremonial more than for any foet purpose; so, they argue possibly-at
least I ancy do so-that it would be like them to wash more now?
if all Boer famililies were connected as ties of blood from there connected by
dressing one another in of adtionship. The young folks call rela-

THE FARMER'S ADVOCATE

## BABTS OWN SOAP

Best
for
Baby
Best
for
You



 familiar appellation, and he must submit to being considered proud and re-
servea in consequence. served in consequence. It is a great
drawback to getting on with the Dutch not to know their language. They ar
suspicious of some 'arriere pensee' when mords aro ued which they do not un-
derstand and ments or busineses papers beans in tongue they do not know. Whether they
have grounds for believing that they have been deceived I cannot tell. NO PROBLEM OF DOMESTIC HELP "Except Kafirs, there are none here
who really rank as servants. bor with a s amaller purse and fewer
fooks and herds, will accent and Aocks and herds, will accept an invita-
tion to live near derstanding that for certain privileges he shall render certain services, and in addition to this recognized form of ser-
vice, there is always an interch neighborly help fiven and accepted which meets most of the emergencies of South
African life. the boers a reverent people. "They are very religious, with views
narrow, but clearly defined. Their chilren are simply taught God's own truth
as in His revealed Word and I believe, commence, each day by prayer, and their meals are untouched
until a blessing until a
asked. ${ }^{\text {blessing has been reverently }}$ Their church is the Dutch Re asked. Their church is the Dutch Re-
formed Church, and their love and respect for their minister is a marked fea-
ture of their characters. ture of their characters. They submit
with much humility to the recobmit authority of their 'Kirk Raad,' or Council, composed of men like themselves,
only with a preference only with a preference given to those
who have won a position who have won a position amongst them
by their wealth, superior education more - marked piety. Matters of busi
ness ness, quarrels, and the breach of any
social law, social law, are laid before the Raad, and
its decision accepted as final ""The Doppers have seceded from the church. Their worship is conducted ever more dismally than that of the section
from which they have separated, singing being excluded as wicked. They adopt a style of dress which of itself is a blow to vanity, and the faintest ap-
proach of mirth, even in private life, is treated as a sin.
" 'Missus would like to see a Nacht-
"' 'What may that be $?$ ' ask I.
once every three Dutch come into town, church, and take months, to go to their babies christened, and the girls
and boys confirmed, and the goods, and sell their wool, and they
visit one another. visit one another. Oh! there are lots
of wagons outspanned in the liver of wagons outspanned in the square
then, and the place is full, full ! "This Nacht-maal is a great institucion, and has come of the necessity for occasional social intercourse amongst a
people who, living so wide apart in their scattered homesteads, and upon farms so large that it is a day's journey to visit a neighbor, would otherwise never inter-
change an idea outside their change an idea outside their own family,
except when visited at long intervals by a travelling merchant, who, like the
Troubadour of old Troubadour of old, is sure of a hearty
welcome and of being fed upon the fat welcome and of being fed upon the fat
of the land, so glad are they to have
him as him as a guest. Transactions of every
kind are carried on during Nacht-man kind are carried on during Nacht-maal,
and as far as a Boer can be jolly, he is and as far as a Boer can be jolly, he is
jolly then, and so are his servants, and
so are his young folks. Whe binot, so are his young folks. Who knows but
that it might have been at 'Nacht-maal' that our Pieter first saw his Gretchen? "But the story of Pieter and Gretchen
shall be reserved for next time."
$\qquad$
$\qquad$





## Hope's Quiet lifou

Seeds Gpow Let him that is taught in the Word all good things. Be not deceived in is not mocked: for whatsoever a God soweth, that shall he also reap. man he that soweth to his flesh shall of the esh reap corruption; but he that soweth to the Spirit shall of the Spirit be weary in well doing : for in us not son we shall well doing: if we in due seaThat is a long text, but it is worthy of careful reading. Whatever kind of
seeds we are sowing, in our everyde ordinary living, will yield a harvest of
good or of evil. "God is not for whatsoever a man soweth mocked he also reap . . . . in due season we shall reap, if we faint not."
When a little magical brown seeds, and told that if planted in the geeds, and told that if
into flowers they will change into flowers and vegetables, he is in a
great hurry to pertorm the miracle great hurry to perform the miracle.
The seeds are duly planted and plention The seeds are duly planted and plenti-
fully watered. Next morning the youns gardener is eagerly looring for results,
By next day he has grown By next day he has grown a little dis-
couraged, and very soon he digs burried seeds to find out what they are doing. We smile at his impatience, but how often we are just as impatient when hervest-field. We gow good seed in God's we can see some quick results unless duced the seed has sprung up and prodiscouraged sower. ligious revival in Wales. Was a great reof the Evan Roberts-the great leader walking to the post office as he was passed a gypsy woman who said. "Good evening, sir." Her use of the word "sir," in addressing one who was
only a miner, "went straight to his heart, and he he asked himself why he had not said, "Good evening, madam," to the Iypsy. 'From that moment,' he said, divelt that my heart was full of the whole world, irrespective of color, creed, or nationality.' "How little that poor
woman imagined woman imagined that her act of kindly revival of religious feeling that would transform the lives of thousands.
Then look at the Other look at the harvest from the other kind of seed. A young man or
woman reads a debasing book, or welcomes into the holy temple of the heart shameful thoughts. The guilty soul is lilled with fear of consequences-but day
slips quietly after day and no evil sult is seen to follow. Then the fear
fades and the fades and the evil thoughts crowd un hindered into the mind. Beore very
long they undermine the citadel of the soul, and the life the citadel of the
from God and alowly away from God and holiness. Thoughts awrow
into words and deeds which into words and deeds which would have
shocked the man or woman ago. The unchecked decay a preads until not only soul, but body, is diseased. week ago I read a book on mental dis-
eases, written by a specialist who was
for worm for years in charge of a large asylum.
He says that a come insane from business or domestic
worries worries, many make shipwreck of the
mind as a result of the drug or alconol
hatit, habit, and many end their lives in the asylum because they have not kept their
bodies holy as the temple of God. As St. Paul says : "It is a shame even to
speak, of those things which them in secret." Secret thoughts are
seeds which will grow. seeds which will grow. Those who think
evil thoughts gradually become evil in character; those who think of things
chate in character; those who think of things
which are tovely and holy, grow steadily
more Sin is a seed which-if allowed to
grow unchecked-produces a harvest of cenes and see how dramatically sin is of one woman. . Jerebel found her husband, the king of


OCTOBER 10， 1912
vineyard of Naboth in
both refused to sell the inheritance
his fathers．
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We know the terrible sequel，and how
Sin is too dangerous a thing to be
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The Ingle Nook．
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Care of the Hair．
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How to determine the
actual value of a piano
HAT problem confronts thousands of piano buyers every
year．It will confront you some day－in fact，it may be year．It will confront you some day－in fact，it may be
necessary for you to solve it now．We propose to help you arrive at a wise decision－to give you the basic principles of piano excellence in order that you may be able to form a definite idea of the actual value of any piano you may buy．You see we make the

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and we know exactly what a high－grade，frest－quality piano costs to begin with，and what it should sell for．Now，here＇s the point－we will forward to
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Manning 20th Century Piano－you will not be pestered Manning 20th Century Piano－you will not be pestered by salesmen－the
only favor that we ask is that you write us a candid letter telling us fairly and squarely what you think of our business methods．
The Sherlock－Manning 20th Century Piano is a superb instrument throughout－it is built of the best material by skilled and efficient workmen and built to endure．Investigate the piano question and you will find out
that the Sherlock－Manning has
rst－The famous Otto Hegel
and－Poehlman Wire－the Double Repeating Action．
3rd－A strong，full－iron plate imported．
3rd－A strong，full－iron plate．
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But investigate the Piano question for yourself．Then Write to us and ask us to show you how we can sell yon
one of the world＇s best pianos and yet save you $\$ 100$ ．
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A CANADIAN SOHOOL FOR BOYS
RIDE，ET COM，HEAR
st．Catharines，Ontario
Three separate residences；new，specially built and equipped．I．Lower
School for Boys under fourteen．2．Dean＇s House，for Boys of fourteen and fifteen．3．Upper School，for advanced Pupils．Gymnasium and
Swimming Baths just erected．Fine Hockey Rink Swimming Baths just erected．Fine Hockey Rink．Athletic Fields and
Playgrounds unsurpassed．Eighty acres．Mild climate．
Playgrounds unsurpassed．Eighty acres．Mild climate．University
Scholarship won in 1909 and 1910．Boys prepared for Agricultural College． REV．J．O．MILLER，M．A．，D．C．L．g

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LAKEVIEW HOLSTEINS！

E．F．OiLER，
Bronte，Ontario


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（ Bronte，Ontant
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Treasure Base-burn
Two sizes with oven.
sizes without ove
Treasure Base - burners -
Made in 15 sizes.
Three sizes single heater.
Two sizes double heater:
The D. Moore Company, Limited HAMILTON, ONTARIO


WAGOII AND STOCK SCALE a Money-saver to You Mr. Farmer


So ofere you Yose monery becanse sout





or stone. Why any modest woman came out of the ribbon onto the hat.
wasts to display anything so intimately It is not very bad, but I would
associated with her family life, as the get it out if week's wash, to the unsympathetic gaze cure a nose that is inclined what would of a passing public, is more than I can ly red. The skin is very bensitive.
understand. No wonder father's shirt Thanking you in alver and dangles its empty sleeves in undignified Bruce Co., Ont. helplessness when it finds itself suddenly If thorough scrubbing with castile M. wonder Mary's petticoat becomes bic and and water will not take out the stain bulgy with surprise when it finds itself you can easily make the will do it; but suddenly stripped of its sheltering skirt. color by treating it with one of the hat
No wonder-but why No wonder-but why go on? I suppose enamels, or with Maypole Hat Stain.
every woman will, say it is to save work. These may
Then if ta barn, or to an apple tree, or to a post. If you wash the hat with castile store.
be to and another attached to the back sun will burn it to a brownish co as the
veranda, with a to veranda, with a good long line between, Consult skin specialist about the red
would answer the same purpose and be ne much, oh! ever so much more artistic, and would display ever so much more
good taste. good taste.
Talking about work reminds me Talking about work reminds me of the
discussion you have been having about what a man should do in the house. Do
you not think then What a man should do in the house. Do Dear Junia,-I am a cake.
you not think that there is a danger too much housework there is a danger of the Ingle Nook. Advocate," especially sissy ? Think over all the men you for help, like many this time have come
have ever ind have ever known who have taken kindly Have a bunch of white, flufly feathers,
to washing dishes or sweeping the floor, and count how ha be cleaned. $\begin{aligned} & \text { and } \\ & \text { or to know how they could } \\ & \text { many of them have made their mark in } \\ & \text { the world of mincemeat.- Three bowls chopped meat, }\end{aligned}$


OCTOBER 10, 1912
Boap. Wash th in a windy place. This method is on
good for ostrich feathers, as the wat will loosen the glue that fastens "made"
feathers together. feathers together
renovating felt hat Dear Junia, - I am tempted to apply
your very useful department for a lithe your very
information.
I have a dark-green felt hat which rather spotted with white. hat which in the rain. Can you tell me ghether anything will remove them, or restor the color? Otherwise the hat is pe ming is as good as new. Your hat presents a problem. sandpapering it. If that is of no use try r
moving the velvet and rubin moving the velvet and rubbing the
well with Diamond Dye or Dyola. know a girl who dyed a white-silk p and I don't see why it would not wor would be that the color might run if you got caught in a rainstorm with it.
you are afraid to risk this, why
write to a professional dyer

TOMATOES FOR WINTER Dear Junia,-I have always taken much

pleasure in reading the Tngle Nook find it is very useful. I tried 'Girlie's' recipe for date cake and thought it was
fine. fine. "parsley jelly"?
I have just or doing been reading a good way would be a grand way. The lady who 'she never has for doing them says Fill a large, stone jar, with ripe toma foes, then add a few whole cloves and a half cold vinegar and half water; place
a piece of flannel over the into the vinegar, then tie down with will not injure the tomatoes in the Kent Co., Ont.
Can anyone send directions for makin

The Scrap Bag. to Remove mud stains Let them dry, then brush well. If mixture' Two ounces fluid ammonia, quart soft water, 1 teaspoon saltpetre
ounce white soap. Let stand. hight and shake well when it is used Rub spots well with this, then rinse horoughly with clear water. NEW HATPINS FROM OLD. padding of cotton; cover with silk, then chet thread or brilliant. The hatpin should exactly match the hat in color. IRON - HOLDER. Use the tops of worn-out shoes fo iron-holders, if you use the old-1
irons. Line them with ticking. тоотн powder Buy prepared chalk in bul. part of ground castile soap add $\frac{7}{6}$ part of the chalk. Mix well, and flavor with
wintergreen or peppermint wintergreen or peppermint essence
Good, and cheap. Wet umbrellas Drain them with the handle down.
turned the other way the collected rain water rots the cloth or silk, and rust baking bread Don't have the oven too hot when you
first put the bread in. If you do, a cannot rise as well. An hour is not too long to bake bread right.

About the Baby. A very sensible and clearly-written lit-
the pamphlet entitled, "A Little Talk
About the Ren," About the Baby," by Dr. Helen Mac- Men Men
Murchy, has been sent to us, and should be in the hands of every woman who
interested in having her baby strong an healthy. It is furnished free of char
oy the Provincial Board of Henl ronto. If you need it, write for it to
that office.

THE FARMER'S ADVOCATE

## Grand Trunk Railway System <br> More Men Required to Harvest Western Canada Crops \$10 to Winnipeg, October 14th From all stations in Canada, via Chicago and St. Paul. Plus half-cent mile from WWinnipeg to destination, but not beyond Macleod, Calgary or Edmonton. Returning haff-cent mile to Winimieg, plus 188.0 to dostination in Eastern Canada. The Grand 




Have City Conveniences

"TWEED" CLOSET $\begin{gathered}\text { by installing a } \\ \text { OTORY AN }\end{gathered}$


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THEEDISON! THE GENUINE EDISON!-Thomas A.Edison's superb new style instrument shipped free on this REMARKABLE offer
 For the Phonograph is Mr. Edison's pet and hobby. He has worked for years to
make this Phonograph excel all others, and now you may obtain any of these
wonderful new style
 The Edison Offer yo will send Our Reason: why should wo mak
 loan - no obligations. no deposit, no guarantee
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ne'll
noll nor C.O.D. to us whatever. We want you to this new instrument. When you get it in yourt town minstrels, grand operas, also the sacred music, we ever been heard-so wonderful, so beautiful, suchas etc. by the world's greatest artists. tain your family and your friends. Give plays
and concerts right in your own parlor. Hear
the songs solos duets the songs, solos, duets and quartettes, the peailng
organ, the brass bands, the symphony orchestras
the choirs of organ, the brass bands, the symphory orchestras
the choirs of Europe's great cathedrals, the pianos
and violin and violin virtuosococoncerts-althedralse we the pant you
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"The Farmer's Advocate" Fashions.
'He Bought Her a 1900 Washer ONE OF OUR READERS TELLS HOW HER HUSBAND LEARNED What Washday Means to a Woman




${ }^{7574}{ }_{34}$ Piovin but biowe,


Smooth, Steady Running is a strong feature of this engine. The parts are as perfectly balanced as a clock, so that even under a heavy load, the

## Renfrew Standard

Gasoline Engine does not Standard. And you'll like jump or crawl around. It needs no fastening down. very This perfection of balance cranking required. No also reduces wear to the push on the wheel and minimum. You will get away she goes. But to many years of long, hard learn full particulars send serviceout of the Renfrew- for our Bulletin
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${ }^{3578}{ }_{36}$ Fancy Wasy
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## urement as rumber, giving age or mea least ten days to red, necive allowing ten cents PER NUMBER pattern. Pric. <br> 


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a anents frot the throat membranes. Pinex is the
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 The prot po results this formula. this. recise have en-
Teared it to thousands of housewives in the United
States and Coond deared it to thousands of housewives in the Uue en
Stated
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has bend im imanada, which explaing why the plan


## MMAYPOLE SOAP <br> Dyes Perfectly

 Cotton, wool, silk or mixtunes can \{all be quickly and easily dyed$\left\{\begin{array}{l}\quad \begin{array}{l}\text { to just the right } \\ \text { sitin } \\ \text { shade with } \\ \text { Maypole Soap. }\end{array}\end{array}\right\}$
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colors that wash out or fade. Colors 10c, Black $\left.\begin{array}{l}15 \mathrm{c}, \text { at all dealers, } \\ \text { or postpaid with }\end{array}\right\}$ free Booklet "How to Dye " from F. LI BENEDICT \& CO., 77A Montreal.


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plexional troubles has been a specialty with
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OCTOBER 10, 1912


THE FARMER'S ADVOCATE.

News of the Week


Four colleges in Montreal, Presby gationalist, have agreed to and Congre-
forces and hold union lectures.

At the fair recently held in New Lis
keard, no side-shows were the ground. The fair was purely agri-
cultural.

A life-size statue of Joan of Arc, by
the French sculto veiled in Montreal on October 6th. It ands in front of the French consulate
british and foreign Hostilities have begun between the
Balkan States and Turkey, and an engagan States and Turkey, and an en
galgent has taken place at Harmanli,
Bulgaria, in which 400 were killed China has obtained 000,000 from a Belgian a syndicate. $\$ 50$, The
money will be expended money will be expended on railway con-
struction. Sir Edward Carson, and thousands of
followers in Ulster, have signed a covenant agreeing to resist an Irish Parlia-
ment. m Terms of peace between Italy and Tur-
key were signed at Ouchy, Switzerland, on October 4th. ...
In consequence of the hostilities be-
tween the Balkan States and Turkey tween the Balkan States and Turkey, the
British Mediterranean fleet has been ordered to the Levant. The Powers may
iqtervene to compel Turkey to grant re

The Windrow.


Walter Burley Griffin. The Chicago landscape architect who
won the first prize in the internanational competition for a plan Australia.

A monument to Victor Hugo is being A new electric device enables doctors to keep in touch with the pulse of patient Among the exhibits of chemical prodacts shown at the Eighth International
Congress of Applied Chemistry recently held in New York, were artificial rubber,
chemical silk, rubies, and other gems, perfumes-some of which were entirely loid, and several metal alloys.

The new Federal Capital of Australia, which will be the first city in the world
o be entirely built according to plan,
o vil cover five square miles in area.
The plan used will be that drawn by
Ir. Walter Burley Griffin, of Chicago Ir. Walter Burley Griffin, of Chicago,
Gho won first prize in the international
ompetition

| the city. As yet, the Capital is with- |
| :--- |
| out a name. |

Dr. Sun Yat Sen bas been authorized To Cet White Swan Yeast Cakes


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suggestions that will help you.
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Branch Factory: WinNipeg. Please Mention The Advocate

The Beaver Circle
OUR JUNIOR BEAVERS. [For all pupils from First Book to
Junior Third, inclusive, ]

Dear Little Beavers,-Here are three more of the stories written for you by Senior Beavers. Don't you think they were kind to do this for you?

JEAN'S ADOPTION
The clock in the main corridor of the Orphans' Home struck eight, and small
Jean Brooks, with her nose against the window - pane, watched the rain patter down on the pavenent below.
She was thinking of her mother who
had died of the had died of the fever, and how, at
night, they had taken her night, they had taken her away and when she (Jean) had been left alone, she had been taken to the Orphans' Home. Although the matron, Miss Martin, had
been very kind to her during the seven been very kind to her during the seven months she had been there, she was very
lonely, and many a night she had cried lonely, and many a night she had cried
herself to sleep for the want of her herself to
mother.
The girls were rather rough, and she had not cared to play much with them,
She wanted to be left alone, and had She wanted to be left alone, and had
often wished that some kind person often wished that some kind person
would come and take her away from it
all. all. Poor, friendless, little Jean ! to the talking and laughter of the girls
in the room in the room. She turned round, hastily brushing away the unbidden tears, and girl who tauntingly cried, "Look $\mid$ girls, look! Here's Jean Brooks crying again,
Isn't she a cry-baby; don't you think $\boldsymbol{\eta}$, She turned and faced the girls, and some of them began to laugh loudly. Poor Jean! Her face blushed pain-
fully. "I'm not a cry-baby," she burst
out. emphaticnly out, emphatically shaking her curly
brown head "Well, Miss Spitfire," the girl con-
tinued mockingly, tinued mockingly, "if you're not in bed
when Miss Martin comes in, you'll catch
it." Jean knew this, and as the other gir
moved moved off, she obediently began to un-
dress for the night. Nearly all the
girls were in bed by dress for the night. Nearly all the
girls were in bed by this time, and soon
the matron came in to say After a restless niight, Jean was awak-
ened by the breakfast, bell. The sun ened by the breakfast bell. The sun
was shining in at the windows, and a
little brown. suarrow nearby tree, chirping lustily. Some of
the girls were altrendy the girls were already up and dressed.
Jean hastily arose, and was soon ready
to Jean hastily arose, and was soon ready
to descend to the breakfast-room. After breakfast they all went. to the
school-room, and the duties of the day commenced.
All the time, little Jean was wishing
that somethiny that something would happen to-day,
and as she was leaving the room at recess, the matron called her into her
private room. Jean advanced slowly to Miss Martin's
side wondering why she had been called
"This is the "This is the child, Mrs. Watton,", sailed.
Miss "Martin. "I hope she will sait
you," Then. you." Then, turning to she will suit
"This lady would like you to said,
"To so she ker little girl, Jean. Shake hands with
her, muy dear., Jean timidly held out her hand, and
Mrs. Watson stooped and kissed her
 "Yes; if you want me, meat. Jean said
soflly. Then she bade her companions
food-l,ye. d-hye, and when she had beom dressed new mamma. new home proved to went home with c, with, above all, a kind mamma. Puck, 1 have written this with-
tuy help, and hope it is not MAZEL hope it is not too
(First Form $)$ HITON

OCTOBER 10, 1912

a

| 1 | 2 | 3 | 4 | 5 |
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## Please Mention The Farmor's Advocate

were cousins, and had lived beside eac other all their short lives. Their names
were Nellie and Marian. They had been told by their mothers that they could go for an excursion on the next day
and they were wondering where the and they were wondering where they
would go. At last an inspiration came to Marian, who exclaimed, "Oh, Nellie
let's take a lunch and go to the river and stey all day!" This plan met with
Noll sued a rush to their mothers to get permission. Consent was gained, and the girls proceeded to make pies and cookies
under their motliers' instruction. They went to bed in a state of great excitement, and woke up bright and
early. They got ready, and then packed their lunch. Now let us peep into their
basket and see what they had : a goodly supply of beef sandwiches, some nice
apple turnovers, cookios, a supply of orange a nice salad, apples, plums, and
orange forgetting materials for Nellie's father hitched up her little pony and they got in, put, in their bas-
kets, and drove merrily away. They arrived at their camping - place without any more serious mishap - than
having their hats blown off by the wind, and having to chase them. They chose a nice, shady spot to tie their pony,
and after making him comfortable, procooded to enjoy themselves. They played
store on a stump, with stones for money, and also had lots of fun in the Water. In due time they had their dir-
ner, which was much enjoyed, for they
were very hungry. After dingr were very hungry. After dinner they
fished a little, but not very much, for
they had a truly feminine horror of they had a truly feminine horror of
baiting and freeing their hooks. Only one little incident occurred which mady
their afternoon more exciting than it their arternoon more exciting than it
would have been otherwise. Marian was
"paddling" in the water when she hap"paddling" in the water when she hap-
pened to step on an old crab, which im-
mediately showed its mediately showed its resentment by fx
ing its pincers in her toe. Oh, what scream she gave I Nellie tried to knock
it off, but couldn't, and the crab, dis gusted with couldn't, and the crab, dislet go its hold and slid into the water,
Poor Marian sat nursing' her long while, but it soon ceased to pain, and she and Nellie were playing as mer
rily as ever in They had their supper about hall-past
five and played a little longer. They
then packed then packed up the remnants of their
lunch and started for home, atter agree ing that it was the happe, after agree
had spent in a long time.


The Mending Basket

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## Touch



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& \text { Thinursday. Ofot. 1/2th, 1912 }
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$\begin{aligned} & \text { also "Clara Minto"- } 1866 \text { - illustrated in this issue, who has a record of } 1,357 \\ & \text { lbs. milk in } 30 \text { days. This herd is strong individually, and will prove an at- }\end{aligned}$
$\begin{aligned} & \text { traction to bidders who are looking for producers of quality. For further } \\ & \text { particulars, write: }\end{aligned}$
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[^0]GOSSIP NATIONAL DAIRY-SHOW JUDGES.
Following is a list of cattle widg slated for the National Dairy Show Chicago, Oct. 24 to Nov. 2 : AyrshiresGeo. P. Grout, Duluth, Minn. Guern-seys-F. S. Peer, lthaca, N. Y.; J. L. Hope, Madison, N. J.; Prof. Geo. C. Humphrey, Madison, Wis. Holstein-Jerseys-H. G. Van Pelt, Waterloo, Iowa Brown Swiss-W. E. Janes, Ithaca, N.Y
T. D. ELliott's CLYDESDALE IMPORTATION.
A lew weeks ago there appeared in
these columns a short review of the big importation of Percheron stallions and
fillies made by T D. Elliott of Bolton Ames made by T. D. Elliott, of Bolton,
Ont., consisting of ten stallions and eight fillies, the high-class character of
which has only to be seen to be apprewhich has only to be seen to be appre-
ciated by admirers of the great French draft horses. Lately, Mr. Elliott arrived home with his 1912 importation of
Clydesdale stallions Clydesdale stallions and fillies, made up
of twelve stallions and six fllies. of twelve stallions and six fillies. of
the stallions, one is eight years old, two are five years old, three are three, years
old, five are two years old, and the old, five are two years old, and the
other a yearling. $\left.\begin{array}{l}\text { Little ned be said } \\ \text { of the character breeding }\end{array}\right) . \begin{aligned} & \text { nad }\end{aligned}$ quality of this lot, as the many years' experience in selecting horses in Scotland for
the Canadian market the Canadian market, and the invariably
high-class character of his past importa-high-class character of his past importa-
tions, are a guarantee that in this lot
is the kind is the kind the country demands, with
big size and ideal dratt type big size and ideal draft type, strong,
fiat bone, nicely-sprung ankles, and big, wide feet, the predominating features.
whe fiveyear-olds are, Baron Rosedale,
The bay tive-year-olds are, Baron Rosedale, a
bay of the renowned Baron's Pride,
dam by the $H$. dam by the H. \& A. S. champion, Rose
dale. This is a horse of show-ring finish, smooth, stylish, and strictly high-
class quality. class quality. The other is the rangy,
stylish - going, handsome horse stylish - going, handsome horse, Cyllene,
by the great Baron of Buchlyvie, dam by Grand Prince, grandam by Lucky Getter. He is one of the handsomest
Clydesdale stallions in the country, and Clydesdale stallions in the country, and
with it all has lots of size and char-
acter. acter. The three-year-olds are and char-
a size to that will easily reach the ton when developed. Dux is a bay, by Up-
Jux, dam by Silver Age Dux, dam by Silver Age,", grandam by
Darnley. He is a colt of great sub-
stance, stance, and carries a stylish top and
great quality of bottom. Northern great quality of bottom. Northern Light
is a brown, by Baron's
R is a brown, by Baron's Enigma, dam by
Royal Surprise, grandam by Pandora's
Prince. He, tor Prince. He, too, is well up in style,
with big size and dre with big size and draft character. The
other is Madura, by Baron Enigma, dam other is Madura, by Baron Enigma, dam
by Pandora's Prince, grandam by Scot-
tish Hero. This is a massive, colt, of great draft character; one of the
great threeyear-olds of the year. The two-year-olds are exceptionally drafty in the ton or over, and withal they are
extra good at the ground. Black Chief is by the famous Everlasting, dam by
the noted Up-to-Time. by the same sire, is Kirkland, with dann by Up-to-Time also. They are a big,
right drafty pair, with lots of quality, right drarty pair, with lots of quality.
Another, extra well-bred, and one of the best two-year-olds that has come over
this woer dam by Royal Favorite, and grandam by
dian Gay Gallant. o Others are by the noted
Pacific, and the good-breeding horse, Culinan, a grandson of Earon's Pride.
The fillies are also up to a high standard, two and three years old; four are
in foal. Among them are three-year-
olds now up to 1,700 lbs., and not near to their limit, sired by such noted
horses as Mikado, Royal Abundance, Top horses as Mikado, Koyal Abundance, Top
Fanhion, Manilius, and Lord Falconer,
and dams, in the same order, sired Royal Chiet, Pricice of Galway, Lord
Lothian, Flashwood, and Crown Feather,
the cour the country in both staltions selection in
than Mr. Elliott is offering. and filies
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| fought race. and the |
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| dam by Sir Dixol |

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[^1]OCTOBER 10, 1912
THE FARMER'S ADVOCATE
SIPHONS
QUESTIONS AND ANSWERS


Miscellaneous
ALUMINUMM VS. COPPER FOR Is aluminum or ROD. better to use as a lightning conductor? 2. What are their relative values?

Ans.-1 and 2. Aluminum, where length and cross section are equal, has Vower of copper. The advantage, howweight is equal. alvanized, though But iron wire, well eleventh (1-11) the conducting power of copper, is better as a lightning conductor can be secured sing a greater nured at less cost by a iofer rod to use Sir wires, and $i$ a found, by experiment, that a sudden disalong $a$ of electricity when transmitted When an iron medium is used, and is
likely to be accompanied flash which might start a fire. therefore, except in special conditions recommends the use of galvanized wire
in preference to copper

## HIRED MAN'S HOLIDAYS.

 the chores on Sundays ? days? days can he claim as holi3. Is there any law that a hired man and is bound to get up of in two night or morning to do necessary work? I should be glad if you would answer these questions, and give me any infor-Ans.-1. He is supposed to do thosethat must of necessity be attended to daily, and every day. doing ne may claim as holidays, after doing necessary chores, Sundays, New day, Victoria Day, Dominion Day, Labor
Day, Thanksgiving Day, Christmas Day together with any other day appointed $\underbrace{b y}_{\text {tween }}$ agreement on the point, the there be no be reasonable for both parties, having
regard to all the cireurs particular case. SAND-BUR.
This plant appeared in the garden two years ago. It is spreading fart. What
is its name, and what is the best method Elgin Co., O
Ans.-The specimen inclosed is a grass,
known to botanists as Cenchrus tribusuch as bur locarly by different names and hedgehog grass. It favors sandy ground, and when it becomes established in gardens and along pathways, proves
to be exceedingly troublesome be exceedingly troublesome. The The
needle-pointed spines on its seed-covering
are armed with microscopic barbs: are armed with microscopic barbs; one
who has not had experience in removing a lot of them from a little childs' cloth-
ing can hardly conceive how distressful ing can hardly conceive how distressfu
they may be. In the South, this grass tecomes perennial, but with us it winters over only by its seed, hence cultiva-
tion that kills the summer growth or
hinders hinders it from seeding until the fros
conmes, will eradicate it. Burning over the ripe or nearly ripe grass, will kill
most of the seed.
The treatment will vary with the conditions, but a suitable
method will' occur to one bearing in mind that he is dealing with an annual
whusc seed, and consequently the mature Mant, is difficult to handle, but easily carries from place to place. J. D.

Would you kindly advise me, through
your paper, the best way to draw water from a well about 270 feet from mater my
barn? The well is 12 feet deep, and
${ }^{2 \cdot 10-12}$


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wo Herefond heifers, over one year, first and second at Toronto, also at Ottawa. the property of W. H. Hunter \& Sons, Orangeville. These heifers were fitted for these fairs on CALDWELL'S MOLASSES MEAL

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## Ontario Provincial Winter Fair, Guelph



The Twenty-ninth Annual Provincial Winter Fair will be held on Foember $5,10,11,12$ and 13 , 1912. (See official catalogue.)
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A.I.condition, and although this is neither the time to say much about CALDWELL'S MOLASSES MEAL the place for us farmers and stock-raisers know it to be meal, yet prominent most economical conditioner of cattle you can buy will be using it. Can you afford to give him this advantage?

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\text { These are photographs of the } C \text { inc ...l. }
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These are photographs of the Cups, which are 22 inches in height They will be exhibited during the show in the building. Here's hoping You'll be one of the lucky winners.

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あ耳豆？
Because there are millions of acres of
gricultural land in in some cases free，and in others at so cents per acre，excelling in rictmess any other part of Canada，blessing and waiting to bless the strong，willing sel－ For information as to terms，home－ tc write toons，special railway rates， 3E．A．maractommel
 HON．JAS．S．DUFF，

QUESTIONS AND ANSWERS． Miscellaneous．
building－notice to quit．
 Bund any sort of a building near his
own，residence，and also near his neigh－ ${ }_{2}$ To itanco give notice to tenant to a landlord to leased for one year only？J．E．v． Ans．－1．Yes；provided it does not
amount to a nuisance amount to a nuisance． out at the end of the year withoun to notice to do so．year without an

> LUMP JAW.

Kindly let me know the best treatmen
for lump jaw in its early thenges
Ans Re． Ans．－The iodide－of－－potassium treat－
ment has
given the best results；but produce what is called iodism the symp
porme to toms of which are：a loss of appetite and refusal to drink，staverinn，and
discharge of fuid
drom the eyes．
Com－ discharge of fuid from the eyes．Com－
menco by fiving one dram three times
daily，and increase trem and grain and increase the doses by ten
until some of the above symptoms are shown．Then discontinue
giving the drug for three or four weeks； giving the drug for thre or four weeks，
when，if necossary，repeat treatment．
taken in the
 ment seldom fails，and is often success
ful in cases of considerable standing． HORSE AND COLT WITH worms I have a five－year－old horse and a one
year－old colt that have year－ol colt tuat have worms．Please
let me know the best way of treating
 the fiveyear－old and the one－year－old． Ans，－For the older horse，take $1 \ddagger$
ounces each of sulphate ounces aach of sulphate of iron，sulphate
of copper，and tartar emetic，and ounco of calomel．Mix，＇and make into
twelve powders．
Give a powder every twelve powders．
nitht ato and morning
Give a powder every
in
damp food，or night and morning in damp food，or
mixed with a ilitle water as a drench．
Cive Give nothing to eat but bran，and atter
giving the last powder，in about eight giving the last powder，in about eight
or ten hours，give a purgative of $\theta$
 ginger．Feed bran only until purgation
commences．About half the dose should be enough for the colt．Mix the same
quantities in twenty－four quantities in twenty－four powders，and
give one every
night and morning as give one every high
directed for the horse．
WATERPROOFING CEMENT－
How can cement blocks，being the wall
of a granary，be painted or treated so
as to be pertectly damp－proor？
Ans．－We are not in a position to an－ swer your question satistactorily from
personal knowledge，but quote the fol－ personal knowledge，but quote the fol－
lowing suggestions trom a booklet issued
 either internal or external methods．In both methods the cornal methods． $\begin{aligned} & \text { conet should be } \\ & \text { a rich，wet mixture．}\end{aligned}$ When the a rich，wet mixture．When the work
cannot be completed at one time，great
care should be toke care should be taken in joining new con－
crete to the old so

．Internal waterproofng mat
${ }^{\text {Plishe }}$－By proportioning methods： make the concrete of the greatest possi－
ble density． ble density
ang adding hydrated lime to the dry
mixture abot mixure－about 5 per cent．of the weight
of the cement used． ．＂By adding patent waterproofing com－ pounds．
＂Extern ＂External waterproofing is applied to
the exposed surface when the concrete is ine exposed surface when the concrete is
in the side which is exposed to
the water． ＂Various methods are used，such as
plastering with a rich mortar plastering with a rich mortar，a wash
of neat cement and water，or a wash o soap－and－alum solution．
＂Pa，tented liquids applied as paints are used，forming either a glazed surface or
by being absorbed by the concrete and filling the pores．
＂Asphaltum，or layers of tarred paper or felt，are applied to the surface or be－
tween successive layers of concrete．
＂The method to be used will depend
＂Ther a great deal upon the special conditions
of the case at hand．＂


## The GURNEY－OXFORD is an efficient RANGE

A business is kept up－to－date because it means a difference between profit and loss．The successful business uses such modern time－and－labor－savers as typewriters，adding machines and electricity．Woman＇s work in the home is also a matter of profit and loss． If she has improved and modern tools，she gains time and leisure and better results．If she has old－fashioned ideas to contend with，she loses energy and effort and peace of mind

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B
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 ROBT．BEITH，Bowmanville，Ont．


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a Bafo, $\Delta$ Sate, Speedy and Positive Cure eor
Oart, Splint. 8weeny, Oappee Hoek Burk mplint 8woeny, Oappoe Hook



The Lemrence-wilthams $\mathrm{C}_{0}$., Toronto, Ont.
SAVE-THE-HORSE SPAVIN REMIEDY BTH
" I would not take $\$ 5.00$ for your of New Paltz, N. Y., April 25, 1912


 City Weigher and Gauger. MHY HE HAS FAITH Troy Chemical Co., Toronto, Ont--I have a road

 ing your reply, ROBT. A. CAMERON.
Whether on Spavin. Puffr Tendon, or any kind of
lamenee, a permanent cure is guaranteed. Sevenlameness, a permanent cure is guaranteed. Seven-
teenn years aucers.
she
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signed contract to cure or refund money.
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or 30 days.
oorses on on board cara for $5,10,15,20$
ocrer
Prospectus free on demand. General Anlmals Insurance Company Mead orriee: 714 stada

$$
\text { Urries: } 7 \mathrm{IA} \text { st. James St., Montreal }
$$

orflee: : JIA St. James
otrawa banch.
No. 106 Yorkawn strect, ott
 Her Husband-"The census officials lour and a fraction persons. His Wife-"Oh, that is the husband."

QUESTIONS AND ANSWERS. Veterinary.

PUFFS BELOW KNEES. Colt about $5 \frac{1}{2}$ weeks old has for four
weeks hed a soft puff on the weeks hed a soft puff on the lower part
of the outside of each knee. There is
nollameness nolameness nor apparent inconveniences.
L. J. W. Ans.-These puffs $\begin{gathered}\text { usually } \\ \text { gradually without } \\ \text { treatment. } \\ \text { dt } i \text { It } \\ \text { will }\end{gathered}$ be wise to leave them alone for a few months, and if they have not disappeared
before the new year, blister them. Debefore the new year, blister them. De-
tails for blistering are frequently given
in these columns. PARTIAL PARALYSIS AND INCow calved July 8th. She was in
good condition. Now she milks fairly
well, but eats poorly, and is stiff, and well, but eats poorly, and is stiff, and
has little power of hind legs and back.
SUBSCRIBFR Ans.-This is partial parulysis. Keep
her in a comfortable box stall. If necessary, assist her to rise. Take 3 ounces
each of sulphate of iron. ginger, and 6 ounces of nux vomica.
Mix, and Mlix, and make into 24 powders.
Mire a
hive a powder three her a powder three times daily in a pint
of cold water as a drench. FFed often of cold water as a drench. Feed often
and in small quantities, and as digestion improves, increase the quantity and
lengthen the periods between meals. V . NASAL GLEET. Horse had laryngitis last winter.
poulticed and blistered his throat until he got over the acute his thage. Now he he
occasionally is short-wipded, and occasionally has a nasal discharge. The
glands glands of the throat are enlarged. He
does not thrive well. does not thrive well.
Ans. - He has nasal to treat. Give him 1 dramm of sulphate of copper three times daily. It may be
that an operation, which that an operation, which consists in
trephining into the cavities of the skull trephining into the cavities of the skull.
will be necessary. The enlarged glands can be reduced by rubbing well once
daily with an ointment made daily with an ointment made of 2 drams
each of iodine and iodide of potassium,
mixed with 2 iunces mixed with 2 ounce

ABSCESSES. Cow got hurt and a lump formed in
her udder. In a few days that disap-
peared and and peared and another appeared. My vet-
erinarian lanced this and erinarian lanced this and liberated a
large amount of pus. In a few days large amount of pus. In a few days
longer she aborted, and since then several abscesses have formed, all in the
left side. She now has one on the left side. She now has one on the left
leg. one on the left side, and one leg, one on the left side, and one on
the left shoulder. Ans.-This is a form of blood poison-
ing. Give her 40 drops of carbolic acid ing. Give her 40 drops of carbolic acid
in a pint of cold/ water as a drench
three three times daily. Open all abscesses
freely, and flush the cavities out well
with with a five-per-cent. solution of carbolic acid. Feed well.

ENLARGED KNEE
When three months old my colt hurt
her knee, and the joint became quite puffy, which condition has continued.
She is now over three years old, and the joint appears as though the knee
cap was split.
S. BROS Ans.-A horse's knee is not supplied
with a knee-cap, hence your not correct. The puffiness has been of
such long standing a cure is very doubt
ful. The pult may be reduce
fy. by the daily mapplication of of an in timsor-
bent. Get a liniment made of 4 dram
each of iodine each of iodine and liniment made of of 44 drams
and 4 ounces each of alce of potassium
ine 4 and 4 ounces each of alcohol potassium,
ine. Rlycer-
daily a little of this wend daily. Do not look for quick results.
Continue tren continue treatn
three months.

GOSSIP
John Elder \& Son, of Oakland Stock for s.le their Hensall, Ont, are offering nender, Scotch Grey $=72692=$. He is
described as an excetionally fine roan
bull, has headed ehe therd for nearly four bull, has headed the herd for nearly four
years, and is just in his prime. He has
been well taken care of and is a great
handler, even- fleshcd, straight-1ined,
an or exchanze, They also offer five other sel -

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from, a great many of them are prizewinners in Canada Sco from, a great many of them are prizewinners in Canada, Scot-
land and France, and other extra show horses that have not
yet been shown. I have never had so many good horses well to see through my barns before buying. My horses are all for sale and at right prices.
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tain a high standard. Prices and terms to suit.
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toppers evey yne. Showring form and quatity, and
bred from sho.

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aloo
and dand 2yearrold beifers, some from imp.

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THE FARMER'S ADVOCATE
QUESTIONS AND ANSWERS Miscellaneous

Keeping cider
Is there any way of treating apple cider
to keep it from spoiling
vinegar?
Ans.
INQUIRER. Ans.-See reply to similar question MAN LEAVES BEFORE TIME A hires B or
per month. At the end months, at $\$ 26$ A finds B does not do enough work for wages he receives, and speaks to him harvest time. The weather being wet, A and B begin hauling manure, having a team and wagon each. B does not try not do, and will have to bit will whereupon B leaves. He demands full wages for the time worked. A offers A has proer month, which he refuses. Can B collect any wages, leaving when he did, at beginning of harvest ? If he
can, how much ? Ans.-Going upon your own statement
of the case, we should of the case, we should say that you had
proposed a fair settlement, and that he proposed a fair settlement, and that he
could probably not collect any more. SPRUCE GALL-LOUSE.
I am sending you a sample of my
Norway spruce trees, from some disease or grub working among them. I thought perhaps you
could advise me as to the disease and treatment of same, through your valuable paper. If you could not, to whom
could I refer ? could I refer? J. H. J. Ans.--1he trouble with your spruce spruce gall-louse. of these attacked by a are several species, and the same rem edy will not always apply to each
these. If you will send a so these. If you will send a specimen to
L. Cemsar, O. A. C., Guelph, he will
clad to glad to identify it for you. The rem-
edy for the edy for the most commonu spruce rem- gall-
louse is to give the trees a therou spraying in May, when the young are
hatched and not yet the galls, and again in Aet enclosed in the
mature forms mature forms emerge, with whale- oil
soap (1 lo. to about five gallons of
water) with limer water), with lime-sulphur of the regula
spring strength, or with kerosene emul sion or tobacco wash.
SAGE CHEESE. Can you tell me if there is a cheese
factory in Ontario which makes sage factory in Ontario which makes sage
cheese ? Ans.-We do not know of any cheese factory in Canada manufacturing sage
cheese, but you could probably have your local cheesemaker produce some on
order. Following are a couple of recipes for which we are indebted to Frank
Herns, Secretary, Western Dairymen's Association:
No. 1. The distinguishing features of sage cheese are a mottled-green color
and a sage flavor. It is a modified
form of the cheddar variety Onemether form of the cheddar variety. $\left.\begin{array}{l}\text { One method } \\ \text { of manuacture is as follows: } \\ \text { One-third }\end{array}\right)$
of thater of the total amount of milk is placed in
a vat by itself and colored green by the addition of eight to twelve ounces of commercial sage color to each one thou-
sand lbs. of milk. The milk is then made into cheese by the regular cheddar
method, as is also the remaining twothirds in a separate vat. At the time
of removing the whey, the green and white curds are mixed. Some prefer,
however, to mix the curds at the time
of milling, as a more distinct color is secured. Aster milling, the sage-extract
flavoring favoring is sprayed over the curd with
an atomizer. The curd is then salted
and pressed in the regular way and pressed in the regular way,
No. 2. A second method, quoted fron
Fancy Fancy Cheese in America": Drop th corn and spinach upon the curd after
milling. An even green mottling is thus easily secured without additional labor Sage- flavoring extract is sprayed over
the curd by an atomizer. One-half
ounce of flavoring is usually sufficient

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 the soil improves the chances of getting a good crop of water held in a thin mulch of manure, a large part of the evaporation can be saved, to produce the best results a good manure spreader mure evenly enough best spreaders for the purpose, as has been proved by thousands of use
users, are

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These machines will spread manure properly on any kind of ground. The wheels cannot slip because of the " $Z$ " shaped lugs on the rims,
which insure ample tractive power without excessive jarring of the
machine. The wheels have machine. The wheels have ample strength, spokesessive jarring of ast solidy
the hub, and are set up where the rims rest on them not buckle. The spokes are not the rims rest on them so that the tire canpassthrough the sim. This is an exclusive IH C feature. The beater drive is simple and strong; the chain wears only on one
side. The apron, whether of the endless or return type side. The apron, whether of the endless or return type rests on large
rollers which greatly lighten thie draft of the machinie. The rear axde runs in roller bearings. garden or vineyard, endless or return ines convenient for every farm, garden or vineyard, endless or return apron. The I HC C loceal agent
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 ported Sire-some good ones among these ; also 30 chrice cows and heifers in calf, at reasonable pricee
Farm 14 -mile from of ourli
gton Jct .

GEO. GIER \& SON, Grand Valley, Ont., P.O. and Sta
Orchard--Grove Herefords $\begin{aligned} & \text { I have hately made a big importation of } \\ & \text { Bulla, Heifers and } \\ & \text { Mature } \\ & \text { Cows }\end{aligned}$
 $\frac{\text { L. O. CLIFFORD, Oshawa, Ontario, G.T.R. and C.N.R. }}{\text { When Writing Advertisers, Please Mention "The Farmer's Adver }}$

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P.O. AND STA., CAMPJBLLFORD, ONT.
${ }^{18 s t}$ Maple Lodge Stock Farm 1912

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GRO. D. Thetcher. R.R. No. 2, Erin, Ont. Shorthorns for Sale-Threestrong-boned large cows with calve bus bo siderviceable age, two
and heavy milking strain. STEWART M. GRAHAM, Port Perry,Ont. STEWART M. GRAHAM, Port Perry,Ont.
 bred. choice herferf, , ohoocecy young bulls,
also the stock bull Lord Fyvie Or. T. S. Sproule, M. P. Markdale, Ontario. between a darky and a chickenge I won"'Naturally enough," replied Brown. other from eggs.

## WAS TROUBLED WITH HIS HEART

HAD TO GIVE UP WORK
Mr. Alfred Male, Eloida, Ont., writes: I was troubled with my heart for two that I would die. I went to the doctor, and he said he could not do anything
for me. I had to give up work. My for me. Persuaded me to up work. My
wife try Milburn's
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QUESTIONS AND AMSWERS

## Miscellaneous.

ALSIKE POISONING
My horses are on alsike-clover pasture
and their legs itch and swell and hair comes off. 1s it alsill and the
What is the remedy, if poison ? What is the remedy, if any? R. E. D. condition described result where horse pasture for any considerable time on
alsike. Give each horse a
 Feed nothing but bran until purgation memences. If this fails to purge, re peat the dose in 48 hours. Follow up and morning. Wash their legs with a ive-per-cent. solution of Creolin, or of carbolic acid.

> PIGS HAVE FITS
pigs, and it seems to buckwheat to my favorably, giving them fits and seemingly great pain. What is the cause, and csit it be remedied?
Ans.-While bu
pig feed, fed in $\begin{aligned} & \text { Anseat is a fairly good }\end{aligned}$ pig feed, fed in moderation, it is not
considered good practice to It should always be mixed with other grains, and only about a third of the mixture should be buckwheat. More-
over, it should It may be that something else is troubling the pigs, but remedy the feeding conditions, and if the trouble still remains after a reasonable time, try some
purgative medicine.

> ARREARS OF TAXES.
katchewan in June, 1907, and in Sas ruary, 1909; he sold it to B. In 1910
B sold it to C. In July, 1912 B re ceived a tax notice from C for taxes ro B had received for which neither A no ipal tax collector. C withholds these axes from B in his payment on land
Who should pay the Who should pay the taxes?
The said land had no done on it whatever until 1910. Ontario.
Ans.-In the absence A SUBSCRIBER. Ans.-In the absence of express agree
ment on the point, $A$ and $B$ should contribute in point, A and B should each
cortion to the time they respectively owned the land. Their
not receiving tax notices would not fect the question. As between B and ing the amount of the arrears. KEEPING ICE WITHOUT SAWDUST
house and building a cement-block milkhave the ice at one combined. I will if by putting in a cement-block could I keep the ice withoroom air-tight, 2. Would the ice without sawdust? 2. Would the ice-room need ventila 3. Would it be advisable to put green
oats, mixed with corn Ans.-1. Not successfully, E. A. M.
siderable siderable further insulation. Without con- are
putting up an ice house designed to keep
ice without sawdust, and the insulation


## SAVELABOR IN THE COW STABLE

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 Jotin llora a so Clover Dell Shorthorns


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any age, the kind that swell the bank account. young bull out of a arshires ing a day and a richly-brent R M. Howden, St. Louls Sta., Que. L.-D.'phone


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breat to Emineont Royal Ferna D. Duncan, Don, Ont., Dunean Stro, C.N.E BALAPHORENE A. Cong Aistance Agineourt. BALAPHORENE A. J. C. C. JERSEYS BALAPHORENE A. J. C. C. JERSEYS Present offering: Cows from three to seven yeare
old calves from two to ten month old ; either asx

resting on a wins are double studed
nd con con
n-inch cement foundation
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each cuse. The hollower space, tween tive
inches across, is filled with planer shav
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 oub the space with shavingens, and
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No robably secure good satistaction
3. We think not.

HOTETEINE

come and visit theWe are now offering some e oung
bull from 4 to 10
montho
ond

 Hiduk $\begin{gathered}\text { as } 2 \text {-year-ords, also some cows } \\ \text { and heirers freshening in Oct. } \\ \text { served by Veeman, Write }\end{gathered}$ H. C. HOLTBY, Belmont, Ont. SPRING BROOK HOLSTEINS and TAMWORTH SWINE Two rich-bred bulls for sale, 15 months old
popular strains; "Record of Merit"" ancestry, good popular aras, bargain to quick buncestry, Gioor
hidivide
Tamworth pigs ready to wean, bred from importy
 A. G. HALLMAN, Breslau, Ont., Waterloo Co

ruar man mecamax $\underset{\substack{\text { Holstein Cattle } \\ \text { thas }}}{ }$ dairy bireed, greateat in
size mint buter

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Holsteins of Quality


MONRO \& LAWLESS, "EImdale Farm" Therold, Ontarle
The Maples Holstein Herd detiore a aplondid lot of bull calves, all sined by Prince or podigroes and prices write
WALBURN RIVERS,

 Ridgedale Farm Molstelms-We have four



 low fewre for quich sale. THOS. B. BARLAM,
BON, WARKWWORTH, ONT. Campbellord Sta The motorist was bowling along well
above the legal pace, when a terrified clucking told him he was running foul of
some wayside poultry. "I'll trouble you for fourteen shillings,
guv'nor," observed a gentleman in corduroys, who appeared on the scene.
'That'll be three-and-sixpen . "Mat chickens." strated the motorist, as he took off hi goggles and gazed at as he took off his
twentieth-centims of "Them other two'll never lay a blessed man. surprised man in oilskins, exclaimed the the sum demanded into the outstretched
palm. "It's palm. "It's due to fright, I suppose?"
"Partly fright, pr'r'aps," chuckled the countryman; "but I reckon it's mostly


SNAP

QUESTIONS AND ANSWERS Miscellaneous.

PERSISTENT SITTERS curing a hen the easiest and surest way Middlesex Co., Ont. in small -Shutting up "sitters" separately found effective in four or well has been perhaps a still better plan is to close the chronic sitters in with a bunch close eockerels. A Macdonald College poultry pended by cords. a swinging coop suscertain and permanent cure, is to cost
vert them int vert them into a pot-pie, so long as the
appetite for pet-pies holds out.

A LONG-USED WAY.
A small river flows across the front of
my farm, between the buildingen highway, also across the buildings and
horner of my neighbor's farm, a small portion of neigh-
commonly known as Commonly known as the "flats," has
never been fenced. The occupant
farm heal never been renced. The occupant of my
farm has always had the privilege
eroseng erossing this flat, thus gaining the high-
way without crossing the river. my neighbor hassing the river. Now land, thus blocking my exit.

1. Can he now
ing the privilege which has obtained ever since the land was settled?
2. If he can me from crossing ?
3. it, can he hinder
men 3. If not, who should have to put up antario.
Ans. -1
Ans. -1 and 2. The statement as to used and enjoyed is somewhat was been it is probable that a right to it has been acquired by prescription from long
and continuous user. So while your neighbor is entitled to fonce the parcel do so legally to the extent of interter ing with your continued enjoyment of the way.
4. Und that it would be for your neighbor to
do it. ADJOINING LANDOWNERS
 rebuild part of the fence occasion to farm and this bragged that "he to keep it there, "place, and was going it to be over a few feet on what is now board fence, and in some places was in
such good shape such good shape that he let it stand.
In the meantime the places In the meantime the places have changed
hands, and a plum hedge has sprung up hedge-and wrown planted, and are now a stumps over on to us. This hedge
a nuisance to harbors insects, mice, and black kno The snow often lies six feet deep there
most of the winter, giving mice a chance to work well up on a tree. Ours
is a good neighbor, and all the rest of
it, but when it
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Ans.-1. Your neighbor-assuming, of 2. You probably do.
5. If you cannot induce your neichbor
$\qquad$
 you what they have done before asking you to judge what they will do. For instance: In 1898, a warehouse was roofed with NEPONSET Paroid. Last year when the warehouse was torn that the roofing was found to be in perfect condition. Isn't Make sure that you get it next. Send for dealer's name and

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NEpanset Roofings are made in Canada.
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John, N, B

ATONDSENE HOLSTEINE Our herd's records are up to 30 lbs . for mature, 29 lbs . for 3 -year olds, 21 lbs. for 2 -year-olds. Our stock bulls are. Prince Hengerveld
Pietje and King Pontiac Artis Canada, carrying the richest blood Pietje and King Pontiac Artis Canada, carrying the richest blood
and highest records of the breed. Young stock for sale. Th' LORNE LOGAN, Mang stock for sale.

## KING SEGIS WALKER

 gr. dams: Butter, 28.36 lbs ; milk, This sire's get are 80 per cent. females. Fos.; fat, 4.24 lbs . Fee for service, $\$ 25$. Pontiac Pet, record 37.67 lbs. butter and the world's champion ; also a bull caltwhose dam is a daughter of Ps just completed a record of 722 lbs in 7 days. Aᄃロ AWA. FAREWELL
 and the only bull that ever sired lived,
and daughters that have made 7 -day records above 30 pounds each. Do you want your Pet (37.67), Pontiac Clothilde De Kol 2nd (37.21), Sadie Vale K (38.n2), Pontiac Pontight others above pounds? If you do, write me for price on (36.20), Pontiac Korndyke. I also have sons of Rag Apple Korndyke price on a son of
Colantha Gladi. E. H. DOLLAR, HEUVELTON, NEW YORK. Nohanna EVERGREEN STOCK FA
 club. Priced right forict Holstein Breeders'
A. E. Hulet, Nopwlch, Onț.


Maple Hill Holstein-Friesians - Special offering: Buls from one to fifteen monthe Bell Telephone.

Woodbine Holsteins ${ }^{- \text {Herd headed by King Segis Pontiac Lad }}$

cows. Bulls and bull calvee for sale. ${ }^{37-\mathrm{lb} \text {, }}$ A. KENNEDY, Ayr, Ontarlo.

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DIARRHGA, DYSENTERY, COLIC, CRAMPS, PAII in the STOMACH, CHOLERA MORBUS, CHOLERA

ITPANTUM, and ALL SUMMERR COMPLANTTS.
If an unscrupulous druggist tries to talk you into taking any other preparation when you ask for "Dr. Fowler's" refuse to take it, and insist on getting what you ask for. Price 35 cents per bottle. See that the name, The T. Milburn Co., Limited, is on the wrapper, as. we are the manufacturers and sole

Farnham Oxfords and Nampshires Present offering: A lot of first-class ram
lambs of both breeds, by imported pion rams. Also a number of yearling and older ewes and ewe lambs of both Henry Arkell \& Son, Ari

## Southdown Sheep



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Byren,
Ontarlo
Cattle and Sheep Labels



 20 PURE SHROPSHIRES FOR SALE

 H. E. Williams, Sunnylea Frm, Knowlton,P.Q.

 J. MILLER, "Blaitgowrie Farm." F Aht high-clas Oxford Down Sheep, Shorthorn Cat

Oxford Downs-Choice rey. ram and W. A. BRYANT, Cairngorm, Ont. For Sale Pure Bred Jersey Bull Calf,


QUESTIONS AND ANSWERS Miscellaneous.

MAKING CIDER Will you kindly tell me the way to
make cider ? Ans.-Cider should be made from sound,
ripe, clean apples, and the fruit possess a sugar content of not less and 7.5 to 8.5 per cent., so a few sweet ap-
ples are necessary. Cider fruit juice of the apple, and is made by quee'sing out the juice by means and Press. Regular cider mills and presses siderable where it is made on any con-

## FOUL IN THE FEET.

 vent a disease which is in order to premy stock? The nature of the diseaseis in the form of a running sore foot, "between the two toes. sore in the
we notice is lameness, fhe first of the foot, and finally then a swelling running. Some of them continue tand lame two inonths, while others are bet ter in about two or three weeks.
2. How shall I treat 2. How shall I treat it?
8. What is the 4. Would it be advisable to destro the cattle, and do the Government allo the owner any. percentage for the loss
of the beasts? Ans.-Thls is foul in the feet, cause by standing in or walking through irri-
tating substances, as liquid manure swampy land, rushes, etc. The extrem
wet season may have Wet season may have caused it by mak
ing yards, lanes, and even pastures,
mud muddy. Place in dry, comfortable quar
ters. Cleanse between the clouts bathing with warm water. Apply hot
poultices of linseed poultices or linseed meal, or boiled tur
nips with a little powdered When the inflammation is allayed, dress
three times daily with carcol. part, sweet oil twenty parts. In and ases it is necessary to pare away some
of the hoof. $\mathbb{I}$ proud flesh has formed
apply a cout apply a caustic, as equal parts of butter of antimony and tincture of myrrh, ap-
plied with a feather once daily for two or three times. If they daily for two
or readiny to
erinarian.
the cattle

## tagious one

MORE MOURNING DOVES reward of one thousand dollars if an one could find a pair of wild pigeons
nesting. I expect that would be ration hard to do, especially at this time of
the year. But there seen in this nut neighborhood at the the to
time. I tome time. I told a neighbor I thought
saw some on his place, so during week he saw about twenty, so he
'phoned me and told me they wer phoned me and told me they were wild
pigeons without any mistake we
it it must be close on to torty years sinc
they were around before. They are
the a slate color, but they do not loo
quite so large as the tame pigeons
me, as I saw me, as 1 saw thern sittinge and in their
manner of flight they resemble and
pigen Ans.-This letter was forwarded to Pr. Win. Lochhead, Macdonald College, Que,
a copy of whose reply, addressed correspondent, is appended:
Your description
you saw is not very definite, and if an
inclined to believe that you aro pass
is
ing ing
but fut the passenger quite $\begin{gathered}\text { plentiful, } \\ \text { pears ago of forty }\end{gathered}$
yas not yet been located, pite of the awards offered. With this Which sending you a colored illustration
will eable you to distinguish
tearly ikeon and the wild passenger pixeon utt cr careful reading of the pamphlet ter careful ouservation at close range
ous still think that the wild pigeons in may write massenger pigeons, then
again, and I shall
ave some exprrt visit your locality and
ane a report


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Anyone a grand lot of rams and ewes for sale, both breeds. Anyone wanting a good ram, or a few good breeding ewes,
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C.Hodgron, Brantiord, Ont. MAPLE VILLA OXFORD DOWNS AND YORKSHIRES

J A. Cerswell, Bond Head P. O., Ontario SPRING VALLEY SHROPSHIRES

 THOS. HALL. BRADFORD, ONT., P. O. ©STA. DORSET SHEEP| SPRINGBANK OXFORD DOWNS


## Pine Grove Yorkshires aty ivivito

 JOHN D. HAYDEN, COBOURG, ONT. Hiten stocn rarm ramworthe.
 ,


 d. J. Davis, Woodstock, Onf



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purchasing a farm it is important that you consider SOIL, CLIMATE,
LOCATION and SHIPPING FACILTIES. You will find all thect Combined in the MALAKWA DISTRICT, which is on the main line of
C. P. R., 35 miles west of Revelstoke, or 300 miles west of Calgary ABe sil has been pronounced by experte to be
ABAGE SOIL IN BRITISH COLUMBIA. T00 per ave two 20 -acre blocks, all under cultivation, for sale at $\$ 200$ and This land is rapable of producing as high as $\$ 1,0100$ per acre each year. M. HUMPHREY \& CO., Limited, Calgary, Alta.

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less by little engines that sawed wood,
pumped ground pumped, ground chop, etct,', at only a few
cents cost for a whole day's work. You've
chen been waiting for an engine as well made as
an auto engine Here it is at last- the wonderful "Monarch" in $11 / 3$
to 35 orse- power. II does the work. It has scores of
fine points init th. Get these


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