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should consult the American Well Works, should consult the American Well Works,
whose advertisement appears from time to time in our columns. They are con-
venient for access nt Aurora, Ill., or
their branch offices their branch offices, Chicago, Ill., and
Dallas, Texas. ". made in canada."-a few years ago, when the International Marvester
Company of Canada, Ltd., was in-
corporated, it wnas apparently just another manufacturing industry that had
been organized to supnly the been orgaith reapers, binders and other
farmer with agricultural implements. That it would prove to be truly international was not suspected. Attention is now being
directed to the large and larger-growing plant at Hamilton by reports showing what is being done. Instead of the Caimported from the States as machinery his harvesters are now made in Canada. Canadior is Canadian; the fron is from Canadlan workmen: the the ground by Canadian forests, felled by Canadian lumbermen. This would be a great deal
if it were policy of this great company is now
shown shown to be to make the Hamiton hac
tory the manufacturling center for harvesting machinery, not only for Canada nnd Canadians. but for England and all
her colonics. Russia and other European her colonies, Russin and other European
nations. The Hamilton works already employ hundreds of hands at good wages. as is shown by the monthly pay-roll.
which aggregatich of dollars annunlly ternational Harvesting Machine Co. of Canada, Ltd., promises to raise Canada
to the position a large manufacturing is recognized as exporting
country country. It is to be no tonger merely
an importer and buyer of the of the manufncturers of other nations.

A great canadian industry.Canada has well earned her other nameThe Bread-basket of the World "'-but more than simply to ralso feed-stuff for hungry mouths. She is able to supply other wants, not only of her own people A notable instance of this is found in the great manufacturing plant of the In ternational Harvester Company, of Can where harvesting machines and seeding and tillage implements are manufactured in large quantitles, both for the Cana lan trade and for export. Already are
these machines of Canadian manufacture finding their way to Russia, South Amerlca, and every nook and corner of the
British Empire, glving a new outlet the products of Cnnadian enterprise for industry.
Although as yet the company"s plant omparatively in its infancy, it has alrcady assumed immense proportions, and has become a decided factor in industrial
Canada's affairs. Hundreds anada's affairs. Hundreds of men are
amployed, and the pay-roll distributes hundreds of thousands of dollars annualy among Canadian people, to sav nothing of the immense sums paid fow
iron, steel, lumber, coal and other raw iron, steel,
materials. As Canadian ugriculture develops. and
as the export tinde grows, it is not ton much to expert that this will become one
of the chief industrins of the Dominion. and that agricultural implements will be Counted one of the staple products of
Canada, as surely na pelts and furs were
a century ago.
Fiscowhere in this issue is a statement
inis company. concerning its "Mado this company. concerning its "MadeVOCATE.

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LONDUN,
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APRIL
20, 1905
No. 656

## Shall we Grow More Roots ?

## EDITORIAL

## Revive Interest in Arbor Day

 letter day on the school child's calendar, is approaching, and Unfortunate ing the days until the a in many cases, ly, the keeping of Arbor Day is, in many cases, a mere perfunctory observance. Inertia of lack of tees, indifference of parents, and resulting in the enthusiasm in teachers is naturally reflected in the attitude of the children, who meet with but halfhearted response the teacher's appeal for edictive of previous experience has proven unproductive of permanent results. An annual cleaning up of play-grounds flower beds on which little bloom ever appears, and setting out an occasional tree whose existence is perpetually jeopardized by boys and other natural enemies, or the piling of some fuel into the woodshed, is about the usual round of the day. Little permanent
attempted for lack of facinies. A general awakening is necessary
preciation of the need of Arbor Day, especially on the part of ratepayers, without whose co-operation little can, and less is likely to be accomplished. The importance of having uplifting influences surrounding our children during the formative pemonof character growth, should require indifference on
stration, and yet such is the public this vital question, that almost any other claim is considered first. Lately an instance was re counted to us of a couple of fine old shade trees, the only ones in the play-ground, being cut down, without so much as a word to pupils or teacher, wecause a neighbor had complained that they injured his apple trees, although shade trees of his own on the other side of the of pupils at this standing. The residerate act vandalism, we submit, was justifiable. Think of it, the influence of those justinable. upon the characters of several generations
trees upo apples! In cities the value of wosthetic school surroundings and of school gardening by the pupils is being realized, caretakers and gardeners are "mployed, and nature-study specialists engas such
the teaching staff. In the rural districts sation things are not so easy, although the Education hepartment in the Province of py providing in its regulations for an initial grant, not exceeding $\$ 100$, to any rural school board which provides a school garden, comprising at least an acre of land besides the regular school-ground area, and weessary equipment and accommodat oi $\$ 10$, prowided the appropriation made by the legislature will warrant such payment. Several Co.. Ont., and have been established in Carleton Co.. Ont., first,
lave received the grant of $\$ 100$ the lave received the grant of In Nowa scotia,
and $\$ 10$ each subsequent year. In and $\$ 10$ each subsequent year. In "e understand, there are upwards Edward Is-
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& \text { Loadon, W. C., England. }
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THE FARMER'S ADVOCATE is published every Thursday (sa issues per year).
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illustrated with original engravings, and furnishes the most

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prejudice against turnips as a feed for milking ows, on the ground of their tainting the milk, has little foundation if they are fed after milking and in moderation, and the same objection Mangels, however are are easily grown, yield abundantly fresh until grass grows. Ensilage from well-matured corn is excellent and cheap feed, and we commend its cultivation, but for the best results in feeding, we cannot afford to neglect root-gruwng, though, with the silo, we may well do with

Export Tax on the Farmer's Raw Material.

ucts of the packing-house, for instance, bones
of which, according to the above-quoted authority we exported in the same year (1903), 49,211 figures, if they mean anything, indicate that a lot of phosphorus has been sold at a price away below its agricultural value.

Again, the agitation for an export duty on wheat could be quite justifiably met by a demand for, similar customs toll. on by-products of the
mill. It will be no difficult task to persuade the mill. It will be no difficult task to persuade the stockmen and dairymen of Canada that the 351,-
641 cwt . of bran that left our ports wild been better fed at home than sold to competing stock-feeders in the United States and Great Britain. For years the Canadian manufacturer has been clamoring for cheap raw material and conservation by fiscal legislation of the supplies we have. Is it not time the farmer had a schedule framed in his lavor, and what better move is there than an cxport tax on fertility and feeding tufis
An English lord, in conversation with his head gardener one day, said: " George, the time will round the manure for an acre of land in one of his waistcoat pockets.
, but he will berdener replied: "I believe it , be the will be able to carry all the crop in

## HORSES.

Care and Feed of the Mare at Foaling. We have been asked for information on the two weeks after foaling. The weeks before and
timely and important, as upon this period doth pends in a very large measure the developunient and value of the future horse. The jounger an animal, whether it be a colt, cali, pig or lamb, ditions upon ultimate development.
The food and care of the mare
development is
development is likewise imiportant. A tutal many colts are born handicapped by ill nutrition,
and such colts are permanently stunted. Good ieed after birth cannot make up for pre-naial starvation, nor for setbacks at birth. Good after care may alleviate, but can never overcome this
handicap. From the above il is sufficiently clear why the mare should be well nourished and clear ior from the time of conception till she is through suckling her foal. This does not mean that she ercise and moderate work will improve her health harden her muscles, and increase the chance of getting a hardy, strong-muscled colt. With precautions, then, to prevent slipping, severe strain
or injury in backing, the mare may be advanta geously worked up to within a day or two of iontaing. Some horsemen work her until signs of immediate parturition, but the plan is not to be
commended. The feed during the last two weerls will it pend, of course, upon the exercise. Good hay,
consisting of part clover, should be supplied. Consisting of part clover, should be supplied.
Clover is rich in protein, which is needed to
nourish the footus. It is also laxative and ducive to the mare's health. Ihe urain fred
should consist of oats and bran, with an tecras ional evening feed of boiled oats or barley. A
foaling approaches substitute more and more for ouls, till the former constitutes about one
half the grain feed half the grain feed. Give the dam a daily tran
mash, and pure, moderately cool water, in small
but frequent lita but frequent libations.
Anticipale parturition with ater, in small box stall-light, and free from a "arm, roomy
there is no manger in whith the foal could be that drere is no manger in whinch the foal could be
dropped during a standing delivery, and l.se
plenty of clean dry ledding Wonty of clean dry bedding. It is a youl :an
to sprinkle a little lime on the floor before bed
ding down the stall. ding down the stall.
The attention required ty the mare prior and during delivery has bean so thoroughly coo-
ered in these columns by $\quad \cdots$ " lhip." that anything
further here would to supe Hrther here would be supe fluons, hat we cannot
refrain from adding a plea to smane the mare for
a few days after the colt's necessarily accompanied by a more or less ssevere
constitutional disturiance, and time should be
allowed fonal altowed for the ssstem to resume its normal tone
hofiore sulbjecting it to the double tax of and milk secretion. When the dam is put to
work. shut the colt up in a box stall. and allow
it to such ing, care always that it is not allowed with the
dam while the later is the be fod with particularly good The mare mudgent
anomine with a bran mash, she should

stimulate milk flow, improve her condition, and
keep her, blood cool. The more natural, keep her, blood cool. The more natural, congen-
ial and wholesome the conditions, the greater the
chance of chance of getting a strong colt, and the liss likelihood of requiring interference or administration of

## Constipation in Foals.

Constipation, or retention of the meconcum in
foals, is probably responsible for more fatalitien than any other abnormal condition. During foot life there is an accumulation of foccal malter in the intestines. This is dark, almost black in
color, of a guminy, sticky nature, and exict color, of a guminy, sticky nature, and exists in
lumps, and is called meconeum. Under normal conditions its expulsion commences soon after birth, and continues at intervals, and is all ex-
pelled in twenty-four hours or less, when the pelled in twenty-four hours or less, when the exexcrement indicates that the meconeum has all been expellcd, and the ferces now passing are the excreta from nourishment taken after birth. While
retention of the meconeum may occur under and all sanitary meconeum may occur under any
condions, it is more frequently and all sanitary conditions, it is more frequently
observed in early foals, whose dams have been fed on dry fodder and had little exercise during the winter. The foals of mares that have had regular
exercise or light work, and been fed liberally on soft, laxative, easily-digested food, do not so frequently suffer, but the coudition is liable to occur even under these circumstances, and is not
by any means unknown in late foals, whose damis y any means unknown in late foals, whose dancs
have been on grass for a greater or less length of time before parturition. Again, the condition is very liable to occur in the foals of dams from whom milk has been escaping for some time be
fore parturition. The first milk or fluid that escapes from the mammoo of a female after or shortly preceding parturition is of a different
chararter, both as to appearance and constituenta chararter, both as to appearance and constituents,
from real milk. It is of a clear, viscid color, and resembles oil. It contains a greater percentage of fat than milk, and hence has a slightly
laxative action. Its function is young animal, and at the same time exert the young animal, and at the same time exert a
slightly laxative action upon the bowels. It is
called " colostrum," called "colostrum," and if from any cause the young animal is deprived of it, there is greater other conditions. At the same time, it must not be understood that it is necessary, or even de trum is absent. The adininistration the colos tives in such cases, unless in very small doses usually complicates matters and renders incur able, a condition that in all probability could meconeum, as stated, exists in lumps of a the gummy nature, about the consistence of putty cously passed these cases where it is not spontan is full, aase so large that the little animal rectum not sufficient muscular power to force them
through the anus through the anus. In such cases it is obvious that purgatives will have little effect, as they act intestines, increase the backward action anterior peristaltic action) of the same, but have little can readily see how this, by increasing the tum. We of the anterior intestines, without removing the exists in to the escape of froces which and lessen the hopes will increase distress Hence we should be very careful about treatment. Ioal with purgatives or laxatives, but depend argely upon mechanical treatment. The sympwill arch his back, eleyate hise plain. The foal effectual attempts to defecate. At first the diseffectual attempts will become more on these inlonger continued: he becomes restless, rolls on
his back, takes litule nourishnent bee upon in the flank, grinds his teeth, hecomes we.ked around to his siders, intense abdominal pain, looks seldom be given. - As stated, purgatives should thown, the attendant should oil his symptoms are an assistant to hold the foal, introduce the finger
carefully into the rectum and remove all the lumps he can reach. In the meantime the the lumps finger, a fresh supreconeum is removed by the finger, a fresh supply is forced into the rectum, or more at one operation. An injection of water and raw soapy warm water, or warm should then bee given, and in the course of 2 or 3 hours the operation should be repeated, and every can beconeum continues to reach the rectum and sive any medicine whatever by it is not wise to when this is not whatever by the mouth, but Sonce or two of castor oil or raw linseed oil, the former preferrod, but in no case should drastic small doses, as diarrheo is is very easily excito small doses, as diarrhoea is very easily excited.
and very quickly weakens the faal. I consider it
good practice to remove the meconcum in this
way from all foals. The operation, if carefully performed, so as (the nail of the finger used should be cu parts), does not injure the foal in the least, and in all cases saves more or less exertion, and
while in many cases it is not needed, it is better while in many cases it is not needed, it is bette to be on the sait for its symptoms. The lives of rather than would be saved if this little precantion
many foals would
Foals should be carefully watched ware taken. Foals should be carefully watched
in this respect until the fooces passed are of a in this respect until the faces passed are of
yellowish color, after which there is little dange of constipation if the mare be properly fed.

## Look to the Bit.

If owners would only lay out a little money in the purchase of bits," says the English Livestock more comfort amongst their horses. As it is, most people appear to be weeded to one pattern of bit, and ifer. The result is that the manners and mouths of their horses are permanently injured, and accidents occur which might otherwise have been avoided. If horse owners, hreakers, is a vast difference in mouths, and many a horse is a vast difference in an unnecessarily severe lit, a good deal of money could be saved and many an equine reputation would be spared. me habit if he is driven in a severe bit-very often it is just the reverse; and therefore the study of their

The Origin of the Thoroughbred The scientists who delve and dig with a view
tracing the ancestry of man and subservient species, have recently announced that, as a result of their investigations, the conclusion has been not a common origin with the British and Con-
ninental horses.
necently a letter appeared in tinental horses. Recently a letter appeared in
the Times, dated at the British Museum, written the Times, dated at Mr. R. Lydeker, asking that the skulls of pedigreed horses be sent to the museum. He says that it was " recently discovered that a horse skull from India, in the museum, showed a sight
depression in front of the eyes, evidently repre senting the pit for the face gland (like that of a deer), which existed in the extinct three-toed hip parion or primitive horse," and a similar dee
pression has been noticed in the skulls of the pression has been noticed in the skull an Arah racers Stockwel and $h$ horse, and Mr. Lydekker and Professor, Lankester had, on the day the letter was written, ascer
tained that it exists in the skulls of Eclipse, Or tained that it exists in the skulls of Eclipse, Or
lando, and Hermit, and knew that it existed in lando, and Hermit, and knew that it existed in horses of India. They had, however, failed to find it in the skulls of any of the ordinary English or Conti-
nental horses, and it appears to be lacking in nental , horses, and it appears to be lacking
horses'
skulls from the drift and turbary of
Europe.
Briefly stated, this face-gland rudiment exists Briefly stated, this face-gland rudiment exists that have come under, our notice, and it is absent in those of European horses. The presumption
accordingly is that the Arab and the Thoroughaccordingly is that the Arab and the Thorough
bred (as has been suggested on other grounds) have an origin quite apart from the horses o Western Europe, presumaably from an Eastern form related to the fossil horses of India.
To convert this assumption into a certainty requires a much larger serics of pedigree-horse requires a much larger series of pedis.
skulls than the museum now possesses.

STOCK.
The Dressed Beef Trade.
Sir,-I noticed in last week's "Farmer's Advocato "s
article on the "chilled meat " trade, which I think timely. In the first place, as long as we have the dairy. interests we are sure to have a lot of secondclass stockers to put in for feeding every winter, as it wolmost impossible to get a bunch of if you go to a farmer who has, say, six would like. If you go to a harmer who has, you have
steers, four good ones and two slabby ones, you else pay steers, take the bunch to get the good ones, or else pay
to
tare we had a ". chilled-meat " trade, those second-clase we had a
steers could be slaughtered and sent to England frozen. In this way some of our large companies could bulld (up a proftable trade, and help solve the space problom, As it costs as much to send a second-class buthock
Fingland as it does to send a prime one. This is no F.ngland as it does to send a prime one are beating
doubt one great reason why tho Americans are us in the English market. They send nothing hut
prime cattle there alive, and kill all the llight weights
pret at home, in that way keeping up the reputation of their
heef. It would also help the cattle intereat in Western heef. It would also help the cht bill in two-no smiall consideration.
A good dressed-meat trade should help the cattle perlodical jams of butchers' stock at the different points. Lambton Co., Ont.

Sheep as Scavengers.

It has been rishtly said that the sheep. on most farms are not making as rapid progress towards
ideal type and purity of blood as could be desired. One reason for this state of affairs seems to us to be the fact that sheep are very common-
ly kept on the farm to act as weed eradicators and brush trimmers. We hear a deal said, too, ahout sheep having " golden hoofs," meaning that they tend to enrich land by spreading their
droppings everywhere. It is a good thing. of course, that sheep will trim brush and eat weeds, as do goats, and also commendable that they
fertilize land as no other animal does, but it is fertilize land as no other animal does, but it is
all wrong that farmers should look upon sheep as they do goats, and consequently give them as little attention. The true purpose of sheep-kcep-
ing should be to produce fine mutton and some ing should be to produce fine mutton and some
wool, or fine wool and some mutton. Incidentally, it will be true that the sheep will ferthze the sults of sheep-keeping should be considered merely incidental to the main object of their mainhe
nance. There was a time many yenrs since when nance. There was a time many years since when
flocks of sheep were rented out to farmers on shares, and at that time the flesh was little liked and in small demand, so that the renter
merely allowed the sheep to fend for themselves, and paid little or no attention to proper feeding and management. Times have changed, however and to-day there is little proft in keeping sheep to act as scavengers and fertilizing agents upon
the farm. We want to see sheep made as important as the other animals upon the place


Gay Rosador, Imp., (7089)
Hackney Stallion, owned by the West Thomas, Ont. (Slerin (Hee Gossip.)
they ought to be in inclement weather, and cultural success everywhere. When this conception of sheep husbandry prevails we shall see more tion of sheep husbande using of pure-bred, pedigreed rams of individual excellence of form and quality, and at the same time farmers will commence to
weed out the poor specimens from their flocks, weed out the poor specimens from their hocks, As it is, every sheep is kept for breeding purposes, and the standard ox exceltence market a bunch ow, for when it comes time to market a sunch flock set the price. The good ones are apt to be lost sight of, and the buyer does not do the sort-
ing for the seller. The sorting should be done upon the farm, but the best time to do it is in upon fall when the ewes are being set apart for breeding to a selected ram. Every poor ewe that
is bred, tends to lower the standard of future ex is bred, tends the quality of the flock is naturally kept below par by such practice. Where sheep have been long kept for brush, trimming and weed
killing, they are ant to be kept right along for killing, they are apt to be kept right along for
such purposes, for they never wholly succeed in such purposes, fors, and weed seeds are spread as well as manure in their wanderings. It would
be far better policy to clean up the farm by ener be far better policy to clean up the farm by ener
getic labor and to eradicate the brush with the getic lahor and to eradicate the brush with the for the purpose, and when this has been done sheep can be profitably kept upon every farm for
the production of mutton and wool, and without the production of mutton and wool, and without
taking thelr other value into consideration. When
lands. S hee play a much more important part in farming op erations in England than here. There, not only the professional bery largely upon shoep for the double purpose of growing mutton and wool and of ma-
nuring the land, the flock being enclosed by nuring the land, the flock being enclosed by
hurdles on green crops, sown for the purpose of hurdies on green crops, sown for the purpourther into the filld as each section is cleared, while the
droppings of the sheep, evenly distributed, enrich droppings of the sheep, evenly distributed, enrich
the land. This system may not be considered the land. Th this country, though we see no
practicable in the
cood reason, except the labor problem, why it good reason, except the labor problem, why it might not be successfully adopted. One thing
certain is, that the climate of Canada is much better adapted to the healthy growth of sheep. They prefer a comparativelv chis chmate, while that of England is generally the opposite, and
there they are subject to many more diseases than there they are subject to many more diseases than
here, and require much closer attention. Sheep here, and require neglected in Canada in the last fifteen years, partly owing to the rapid extension
of the dairy industry, and partly due to the low of the dairy industry, and partly due to the (oth of prices prevailing for wool and mutton.
these commodities have greatly advanced in price
in the last two years, and sheep-raising should in the last two years, and sheep-raising should
now be found a profitable branch of farming. No now be found a profitable branch or farming, No makes hetter returns for the labor and expense attending-their rearing, and we hope to see many
new flocks established in the country before the new flocks established in the country before the
close of the present year, and existing flocks improved and strengthened by the infusion of new proved

## The British Breeds of Sheep.

Commencing with the issue of November 3 rd, 1904, the "Farmer's Advocate" has weekly pre article on one of twenty-four distinct British article on one of twenty-four distinct
breeds of sheep. It may seem inexplicable to Canadians generally, who know of less than half that number of breeds of the ovine race, why so
many varieties are maintained in so smail a many varieties are maintained in so smail a
country as that of the British Isles. The explanacountry as that of the British istes. The explanathe people, and largely in the more marked varration in the climatic conditions and character of
the soil within the limits of more clrcumscribed areas. It is rare in England to find two counties adjoining, the soil of which is nearly similar in composition, and in some counties rare to find
two parishes of similar soil. while in many cases adjoining i a rm m
and flelds are and filds are
made up of soil made up of son of entirely
ent character. Ob-
servation and exent chation and ex-
servalience on the
per part breeders in and breeders in
different localities,
has led has led to the
production of disproduction
tinct types, found suitable to the en-
vironment, and vironment, and
when these types
tyave become fixed, have become ined,
local pride and ambition has con-
tributed to their tributed to
maintenance. the exclusion of a
$t r i a l$ varieties which might have proven
more proftable. This extreme con-
servatism has servatism in $\begin{aligned} & h \text { a s } \\ & \text { grown less in later }\end{aligned}$ years, with the
result that some result that some
of the principal, more modern
and 1 mproved and
breeds
spread over wive spread over wider
territory
$t h a n$ formerly in the hoome country. and have found a very much wider fleld in the colon-
les and forelg

There is plenty of available material in th
flocks of our home breeders for founding There is plenty of available material in the
flocks of our home brecders for founding new
flocks, if farmers make their selections early in the season, before they are picked up by the U.
S . speculators who will be here in strong force this summer, owing to the good prices belng real-
ized in that country for lambs and wool, and ized in that country for lambs and wool, and which will be followed by a proportionate ad-
vance on this side of the line. A small flock of sheep may be very profitably kept on nearly every farm in this country, without seriously interfering with any other branch of farming, and the
proceeds of our farms night thus be augmented by millions of dollars in a very few years.

Prof. Grisdale and His Critics. To the Editor "Farmer's Advocate":
Sir, In your edition of the 2nd February, 1905 ,
page 152, I am reported as having said: "From one
year to two and a half years is the ideal age for feed-
ing for beef. The relative cost of pound of intmen in ing for beef. The relative cost of a pound of gatm is
as follows :

Six months to one year ................. 05
One year to two years .................
08
Two years tc three years
08
17
There is something in the young animal that enables it to make better use of its food than when it gets older.
With one slight error, or, probably, modification, of my uttered, or at least intended to be uttered, remarks, the report is correct.
The line. "Two years to three years, 17c. per lb.," to correctly report what I said should have read, "' An so on through the third year, till at the end of that
period it is costing about 17 c . per lb." The article appearing in your edition of February
2nd, 1905, was not, as you are aware, either written redited by me, so, Sir, I may not be held responsible
or any slight variation from the text of what I really said, or, at least, supposed I said, and Intended to say.
 ecords, with feeds valued as below, were based t at diferent ages:
Roots and ensiluge

Roots and ensilnge
Clover hay Skim milk .......................................... $4 \begin{aligned} & 00 \text { per ton. } \\ & 15 \\ & \text { per } 100 \text { lbs }\end{aligned}$ Meal and grain of all kinds ........... 20 on per ton. Various kinds of grain were fed-bran, shorts, corn,
oats, barley, peas, gluten meal, oil meal and flax-seed meal-some of which cost more than 1 c . per pound, but
others cost considerably less, so that on the average cost for several years being made up, it wha found to be as nearly as possible 1c. a pound.
As to wiights, the steers have, in the case of the short-feed lots, run from an average 700 to an average
of $82 \Sigma_{\text {per steer per lot at one year old, and from } 1.200}$ to 1,300 at 22 months or two years old. Odd steers have welghed 1,400 at 22 or 23 months, but then others
have run only about 1,1 no at the same age. have run only about 1,1 no at the same age.
The long-fed strers usually average about 800 at one year old, about 1,000 at two years old, and about
1,500 at three years old. Steers fed as above doscribed for two years, and
making such gains, cost making such gains, cost about 2c. per pound for gains
made in the first six months, from 4c. to 5 c per pound the next six months, and from 7c. to 8c. per pound the second year. They cost in all about $\$ 50$ per head to
feed for the two years, or till ready for the block, and have usunlly sold for from $\$ 65$ to $\$ 80$ each, an average
of about $\$ 70$ I think. The lots for three years cost about the same for
yaing dury the first six months and second six monthe: ver pound, and during the third year gradually increased
were costing (while being fattened) about 16 c . or 17 c . ever, always the home market for all coarse forage, and
 Since seeing my figures questioned, I have, Sir,
looked this matter up in some of the best authoritic on such questions, and find that in the case of animals on such questions, and find that in the case of animals 4.05 cents; in the case of animals fed from one to two years old, the average cost per pound gain was 8.04 cents, and in the case of animals fed from two to three
years old, the average cost per pound gain was 12.46 cents. The figures agree with our findings here, as you
will notice, save that in the case of from two to three years old the avorage is given, while I gave the final rate of cost per pound gain.
Now, Sir, in your edition of March 9th, 1965, Mr. John Kennedy states that he can feed a steer for about six months for from $\$ 20$ to $\$ 24$; and Mr. Simpson
Rennie is quoted as saying that he can put on 300 lbs. Rennie is quoted as saying that he can put on 300 Ins.
in six months for about the same sum, $\$ 24.52$. I agree in six months for about the same sum, $\$ 24.52$. I agree
with these gentlemen, and think we have done even better here, having made gains more choaply with $2 \downarrow$ and
$3 \downarrow$ year old steers, because we used less moal thyear old steers, because we used less meal. We find from start to finish gives the cheapest grins. Ior the
first month or six weeks no meal at all is fed, l, ut all first month or six weeks no meal at all is fed, wut all
the roots and ensilage, equal parts, the steers will eat the roots and ensilage, equal parts, the steers .Nhe eat
and five or six pounds of clover hay daily. The meal
when first given is fed in very small quantitios -1 lb. when first given is fed in very small quantitios -1 ib.
per day for the first 10 days. then $1 \frac{1}{2}$ lbs. per day for tho next week or 10 days; 2 lbs. for the next week, ctc.
Steers so fed cost us from 6c. to 8 . ther pound for in Steers so
crease in
$\qquad$
$\qquad$ the steer the more expensive the production of beef. It
does not, however, as I think I can clearly show. The does not, howvever, as I think I can clearly show. The
steers fed by Mr. Kennedy, Mr. Rennie and Mr. Baty were steers that were bought up in October and Novem
ber for feeding purposes. They were, for some reaso her for feeding purposes. They were, for some reaso
or other, not fat enough to go forward to the block o
he grass, and, hence, were in good shape to
on gains cheaply, and the seller was forced to sell them
Rape in Stubble.


Prince of Scotlandwell, Imp. ( 11860 ).
Clydesdale Stallion, rising 5 years. Imported by Smith \& Richardson,
Columbus, Ont,
 gave them. Such excellent farmers as Mr. Kenuedy, and cover your rape sed at the same time. That's
Mr. Rennie and Mr. Maty know this too, or they would killing three birds widh
 selves before feding; they know it either hy experience e louk had. It will look as though it had lost its
or intuition, we know it by experience.
last friend, and vou will piohally curse Kelly last friend, and you will probably curse Kelly
Here, Sir, is one item of experience stwers kept for advising you to try such a plan, but just you
 about $\$ 80$ to feed, and sell for from $\$ 65$ to $\$ 75$. These ${ }^{\text {M }}$ My reasons for sowing ten acres with the
figuros refer to not one steer alono, but to several lots. grain is this, that acrease will make and an excellent reason for buying racher than raisinu fwed erowth and furnish an abundance of feed, even if sieers kept till two years old made a clear profit of I lateld not care to risk sowing the whole field
from $\$ 15$ to $\$ 20$, and sters bought in and feed for six thon and months usually made a profit of from $\$ 4$ to $\$ 8$ under alle for the growth of rape, it might make such exactly similar conditions.
Now, Sir, let moe say. fierther that I bolieve ther. is as the grain, and bother would be nearly as hich
money in beef production in Fastern Canada, but thing at ctack-

 spring, will, "e find, frequently leve a small clear ...The rape seed sown in May will usually be
proft, although sometines there is an apparent loss from four to eifht inches high at harvest ume after paylng for feeds at quoted prices, There 1 s , how . The sickle will sometimes snip of a ferm leaves,
manure, that indispensable factor in successful Canadian
arming. In your edition of April 6th, 1905, both Mr. Baty, on page 499, and "T. A., of Parth Co., Ont,"
page 500, refer to the superior value of aged cattle as onsumers of coarse forage. I may say that we hav
ound but very little difference between cattle of differon ages, as to their comparative powers of utilizing coar
feeds. We have fed stcers aged from 8 to 12 months, from 8 to 24 months, from 30 to 36 months, and from 42
o 48 months at the same time, under similar condiions, and have found the young steors do quite as well s the older stecrs, so far as weight of gain was con-
idered, and considerably better so far as cost of 1 (N1) bs. gain was concerned.
The coarse forages fed were mangels, turnips, onsilage, oat straw and clover hay. The rations h aried slightly from year to year, but an average ration
might be said to have been made up as follows: straw, 6 to 8 lbs.; roots, 50 lbs ; and ensilage, 50 lbs . All the steers would eat up clean of this mixture. This was fed in two equal portions, night and morning, ful-
lowed by from 2 to 4 lls. of long clover hay after each from. The stcers from 8 to 12 months, and those id the older steers for received no other feed, neither two months, when for about two months. During the all averaged about 2 lbs. a day, but later on, in order oo keep up the 2 lb. a day rate of gain, it was neces-
sary to feed meal to the $2 \hbar$ and $3 \frac{1}{\$}$ year old steers. The 8 to 12 months and the 20 to 24 months lots
were allowed to continue without grain, and usually did from 1 to 19 lbs. per day till grass was ready.
kota Sheep-breeders' Associn
tion, by W. F. Kelly, of that
State, he said. We have
been for some years practicing been for some years practicing
the plan of sowing rape with
our, oats in spring, with the our, oats in spring, with the
best results. I presume many
of my hearers have already of my hearers have already
tried owing rape with arain.
I do not presume to I do not presume to teach
these people anything. on this
subject, but to those who have not tried it, with their
permission, I will give them my experience with rape in field, "I would let it be a large one, that I intended planting
to corn the following year. Then you need not plow till
spring, thus giving the she"p fall. I would sow ten acres
of that field by mixing the
rape seed with the first urain rape seed with the first \&rain
that is sown in the sprine, at
the rate of two and onn-half to three pounds to the acr with barley, for if you do so,
the chances are that you
would harvest more rape than
barloy barley. I would sow the rest
of the field anywhere from th 15 th to the 25 th of May, go-
ing over the field thus cown with a light harrow. firaid of amaging the be grain by 



## THE FARMER'S ADVOCATE

PRIL 20, 1905 sut-not enough to make any diference with
tacking the grain, aod unless the season be very ry will make a rapid growth after the grain is
ut, and by the time stacking is done will be one
und solid mass of green, the finest sheep pasture in
sow world. My friends, your sheep will feed upon his in preference to the earlier sown rape, hut
will attack that later in the season. With this will attack that later in he season. Whit your pasture you need have no tear will swell and grow, and your
lambs, bill be glad at sight of them.
herart will be
 danger of bloat as is generally supposed. Before turning in I would fill them on some kind of food
 the rape an hour or an hour and a half the first day. I would follow the same course the second
and third days, only the third day I would let down the bars, and $I^{\text {I }}$ would not put them up
again the entire fall. again the ene rape field all day and all night, too.
cess to that matter 1 have not lost but one sheep
for that for bloat since $\qquad$
Those Stock-feeding Figures



Pulp in a Cave.
I liked sugar-beet pulp all right from the start. I. ever used. I fattened two head of cattle, and fed five
others on pulp and cut straw mixed. They always ate it up clan, and are loking well. of course the ones
I fattened were fer on cut oats mixed with the pulp and a little meal. They did remarkably well. I also
ted two brood sows on it: about three pails per day led two brood sows on it: about three pails per day
mixed with onehall gallon of barley meal.
One meed farrowed this month, the rigs are strong, and doing well. I Continued fieding her on it, two pails
per day, mixed with two knilons of corn meal.
Both per day, mixcd with two gallons of corn meal. Both
the sow and her pigs, nine in number, are doing well the sow and her pligs, nine in number, are doing well
I kept part of it in a cave, which was not too warm the pulp froze a little on top, and tho rest of it 1 kept in a mow of a frame barn, covered with cut straw.
tound the cave to be tho bost place to keep it for feed. ing to pleg


FARM.
A Chat with Neighbor Johnston

## we were doing the chores.

 hur turnips, and asked how we managed to have thenInep so well.
replied,
It think the prindpal reason is that we pulled them by hand, the old fashioned Scotch plan. They were nice and clean, no rootlete
and no brulses or scratches, which would have been evident if they had been dragged out by the harrows

Mary had a little lamb

## Mary hac a flece was white as snow.


thoned, the mice are getting in thelr work, and I have seen long strictues of heage fence where there was scarccly any bark left on the plants.
So far as we know at present, there is nothing betSo far as we know at present, there is nothing bet-
ter in the line of tecing than tho smooth, coiled, woven wire fence. It is gocd to prevent dritts, nnd is prac-
ically safe. Thero are so many horses in the country disfigured for life by the crucl barbed wire, that we don't like to see
dit
Clalver Ha Len

## Corn-testing Methods

the Edtor Fan elt silight criticism by Mr. J. S. Pearce, of the systom ssue. Mr. Pearce clatms the system to be too "inCricate and quite unnecessary." as it involves the testing of each individual ear. He goos on to say, and
righty so, that you cannot judge the vitallity of the Corn by the appearance of the ear, yet he advises the taking of but 15 or 20 average ears from the whole Cot. shelling of the grain, and testing 100 kernels of
the same.
Having this spring tested large quantitioe $t$ corn on the enr, and having seen the great difference in vitallty that exxstst between the Individual cars, I nm forced to conclude that tho best way, and the only way, to ensure a sattsactory stand of corn is to yol-
low out such a system as 1 have already outlined. low out such a system as I have already outined.
Were $I$ to compromise to any extent, 1 would be whero Ware quantitpe of corn were to bo sown, that Instead It testing every ear, the Arst one hundred ears might inch be tested and taken as the basis upon which the
italty of the whole lot might be determined. Whero these ears are found to possess good vitally, the whole Kamplo may be sown with a very talr degree of saloty. owover - Pearce suggeste, and a number of Kernols chosen indiscriminately and teoted, you might or you might not, ns that gentleman admits, get a fafr Dles give very good ger-
 they were supposed to represent was planted, a
ery poor stand was the result. In any case, it
fis only
In chance that one can get a repre-
sentate
in this
sample
to test urthermore, what is of greater
annot
amportance,
trace Sisard thace bock and
kernels tho the
trom which will
tion

 Oorn states acrose tho
ine, who have adoted this system, and who
Cesily as to its utility estily as it its utility.
one grower in particu-


 ${ }^{\text {hircept }}$ better. Can we these chan that given by nd progressive corn-growers who make thetr money out of this great cereal? In thinking this matter (1) That the grain from 100 ears of Dent corn, o 200 ears of Flint corn, sown in hills 3\& foet apart each
way with three kernels in a hill, will plant between five and six acres. (2) That for every 20 ears of Dent or 40 ears of Fint corn that are discarded because they will not grow, approximately one acre of corn is saved, provid
ing such ears are substituted with others of good (3) According to a time test made at the Illinois Experiment Station, one man, in five hours total time, can test every ear of sced corn required to plant 32$\}$ With these facts before us, therefore, I am willing to let the system stand on its own merits. It is not my intention to urge anything unreasonable, and I am not that every corn-grower ought to know, without there belne any doubt about it, just exactly what kind of corn he is planting, and the principle involved, have already said, is the only one that I know at the have already said, is the only one that 1 know at the
present time to be effective. the year when the grass was long and dry, on
prinkle it linerally with coal oil, after taking due pregrass, and there would be enough heat generated completely kisl the hedge plants, If they weie not quite

## Clover Ensilage.

 At the last meeting of the Farmers' Institute of East Flamboro, Wellington Co.. favored the armers present with his experience with clover ensilage. The "Farmer's Advocate" has pleasupon this interesting matter" Early last summer I was convinced that the season was not likely to be favorable to the growth of corn, and I made up my mind to use
clover as a substitute for fillin? what enquiries I could, but I was unable to find anyone who could direct me. Accordingly, I made up my mind to do a littie experimenting in
this direction. I waited till the clover was in ull bloom-till what some would consider the earliest cutting time, but when others would believe was too early to begin the clover harvest. with corn, and on the day appointed waited till the dew was off the hay before starting the mowing machine. However, just about noon a heavy shower of rain came on, and nothing was done
till after dinner. The first clover put into the silo was, therefore, quite wet. This part of the ensilage when I began using was quite black and
useless; indeed, it was simply manure. The seless; indeed, it was simply manure. The
hext few loads of clover were much drier. and this turned out to be very good ensilage. the meantime the sun and wind had thoroughly dried the standing clover. This was cut and
hauled at once to the silo. The ensilage re sulting from this proved to be thoroughly sweet and good, and desirable in every particular, hav-
ing all the good points of good corn ensilage. The oes not taint greed cows mill on it, and it followed the usual methods of filling a silo with orn. I cut it the usual length. and had it wel

Do Not Use Formalin Solution too Strong.
subscriber ant., states that he sprinkled his seed wheat last fall with diluted formalin, $\frac{s}{\text { pint }}$, fore gallons water, two days
before sowing, and that, as scarcely any of the wheat sprouted, he had to sow the fleld the
second time. Two neighbors tad the sate second time. Two neighbors had the same ex-
perience. He asks whether he used it too strong the -pint in solution having been sprinkled on fifteen bushels. He also raises the question as tween wheat and oats would have anything bewith the effect of formalin on the germ of the grain, and wonders whether he could treat his We feel safe in sta tins
decidedly too strong. Those who read then was on "Treatment of Seed Grain for Smut," in the remember the caution of issue Marcl 9 th, wil formalin delayed somewhat the germination of the seed. Recent results from Guelph, Ont., and Purdue University, Indiana, seem to indicate that and reduces the yield. All agree, however, that it is perfectly safe if used in proper strength, and
that of all the remedies for smut formalin is the best. The strength used in 1904 by Prof. Zavit, for sprinkling, and was pint to 21 gallons water for twenty-minute immersion. The percentage of
smutty heads was nil in each case, but sprinkling smutty heads was nil in each case, but sprinkling
with the strong solution somewhat reduced the with the strong solution somewhat reduced that
yield, as compared with that from other trea ments. Our correspondent, by the way, used 50-per-cent. greater strength. Taking every
thing into consideration, Prof. Zavitz conclude immersion of oats for twenty minutes, hy using
$\frac{1}{2}$ pint formalin in 21 gallons water, has given $\frac{1}{2}$ pint formalin in 21 gallons water, has give
excellent results. The treatment is easily per
ter formed, comparatively cheap, and very effectual.
The Purdue Station found a much weaker solu-
tion sufficient. The method they recommend is to sprinkle the seed ats with a solution of for malin of the strength of one pound (a little less
than a pint) of formalin to firty gallons of water
until nearly moist cronnh unti nearly moist enough to pack in the hand
shovel into a pite and cover. After two hours or more the oats are ready to sow, or can lic
spread out and dried and kept for; future sowine
Formalin in Formalin is a gris dissolved in water, and the
reason for covering the oats is to keep it con reason for covering the ohts is to keep it con
fined and give time for the ,as to penetrate he
tween the chaff of the grain, and thus reach every spore of the fungus. The cost of the material fur
this treatment is about $1 \frac{1}{2}$ a a bushel-less than
From the foregoing, our caution, based mainly Though possessing no data was well advised egard it as not unlikels that the kerm of the hat of the oats, but do not think anyone necd The Purdue erain the solution
ight be added-to dry thorouph
take care that treated seed is not re-infecter With smut spores by contact with other grain, or
with bins, sacks or drills bearing the spores, a a few spores go a long way towards infecting bushel of grain.

## Eveners to Burn.

Below will be found a further assortment three-horse eveners.
sketch sent us by W. L. Lockhart, Westmoreland Co., N. B. The second illustrates the Deering style of evener, which may be seen in almost any
locality. The third cut is from a drawing sent us by Milton Rose., Dundas Co., Ont. 2 inche thick, 6 inches wide, bolted with two bolts, N

$2 \frac{1}{2}$ inches back and four inches above a hole $\Lambda$ (which should be shown in the lower, right-hand
corner of cut, corresponding to the hole in the upper corner, which should be labelled D, D and being 12 inches apart). E is the whiffletre of center horse. Attach two-span B to A: atving. perpendicular to B when all are

Effects of Bluestone Upon Various Plants.
O the Editor "Farmer's Advocate", In reply to your enquiry re efluct of bluestone how that pear vines are not afiected ly a two On the other hand, potatoes, turnips, rape and beans are somewhat injuredes by a two-per arent Sumar heces are not injured hy this solution and Colution, I may say that we fonind hut few woms herd's purse dandelion, annual sow- bingtle, hep-
dock hull-thistle, Canada that le. thistle, hum weed, sticksend, and white cockle. and Frw of these were killed outriwht, as miuht : rong tampons or under,round stocks. The fold tombe ahe ras, inoad-lenfed plantain, mallows Froul dice atonve results we cannot hope to eain
much wy sprave with bluestone for weedse other
than wild mustard.

## The Value of a Pig Pasture.

## The value of a pig pasture can hardly be over stimated. Yet the majority of farmers are

 ing their pigs in confined quarters and feedin them high-priced feed and making small profits According to According to some of Prof. Day's experiments at the Agricultural College Farm, Guelph, hefound that pasture was equivalent to one-third the grain ration in promoting gains. Four and one half to five pounds of meal are alleged as
necessary to produce one pound weight in the pir. Then. pasture would be equivalent to se pir one-half to one and two-thirds pounds of meal besides producing healthier pigs.
Pigs do well on a certain amount of bulky fond, and when they are growing bone and $m$
pasture helps produce it very economicall. If I could have the pig pasture as I would like $t$, it would be divided into three main divisions, n which the central part would a permanent On this permanent pasture ot I would disk in
some clover seed occasionally, when the ground
was in good shape for such work early in the On one side of this permanent pasture I would have a piece of fall rye, alfalfa and red clover. On the other side I would sow a piece to a mixed rop of barley, oats, wheat, peas and rape seed nome pumpkins for call feed. and rape, and then ample provision for wants ot pigs all through the summer season, so far as the green food was concerned. Of course I should want these divisions fenced off with portable he other would be coming on fresh again. At one end of the feed-lot, near the barn where the feed was kept, I should like a tight platform, nearly surrounded by a tight-board fence, high
enough to shelter the hogs while eating their grain, corn in the ear, etc., from the wind. If his had an evergreen wind-break on two sides of Choap shelter could be provided (as I have this winter) by making a rail pen under the straw tack, with an opening to the south large enough for the pigs to run in and out, and two or three
logether. Wigwam pens, placed in a shieltered together. Wigwam pens, placed in a sheltered
place and banked up with stable manure, might e provided.
The platform should be large enough for the might be made of concrete, but should be raised bout a foot from the ground, in order that it might be scraped off occasionally, and flushed off iter a rain. number of pigs. If me take care of a large closely he can make some clean money as well. I helieve I can sell my barley for 75 c . per bushel
in the shape of bacon hogs. in shape of bacon hogs.
In the winter time bulky in roots, clover hay or alfalfa, and silage.

## Harrowing Grain

## the Edrlor Farmer Advocate

I noticed in your paper a couple of weeks ag ising an article the a ceared some sely criti iously, suggesting the advisability, under certain ircumstances, of harrowing the spring grain arte ppeared above ground If Ihe blades have riter of the first article correctly the recont hendation was to harrow after seeding on clay eing finely pulverized, and had baked and crusted Wen dried by the sun and wind so that the blades muld not all force their way through, or had be one "o they could not make healthy and "ellow nnder such circumstances I have practiced har rowing with very gratifying results. In one case a wall frill a few days after sowine and a heavy rait heat very closely ; a dry time followed. the Wheat ame up very thinly and looked sickly. A the outlook spelled failure as it flas. I concluad Too ways firld with heavy iron diamond harrows wa auain. so hopeless was the up my mind to compla of davs, on a dewy merning, I could so h. prospect was entirely chane field; in a week numurar a was entirely changed, and the next send that had heen more than that, the timothy as thick as hair on a dog's back, and made splendid crop of hav the year following the whea arp. and more than once on clay hills where the grain has heen hound by the running together of
the fine narticles of soil, making the field look
factory results, making the crop appear more uni- fore the corn is up. Whenever the weeds start,
form and the yield as good on the hills as in the form and the yield as good on the hills as in the
hollows. The objectroll raised ovy your cricicat hollows. Dent that, in case the field was seeded to clover, the harrowing would destroy the clover,
has little point, when we reflect that the condition has little point, when we reflect that ine forcing its way up will have the same effect on the clover, why up from its very nature, is more likely to be strangled in its face than is the grain, and a hood a crop of clover on those hills that had been good a crop os on the lower ground that was not harrowed. In one case a high portion in a fiel
sown to peas had become packed and looked bar sown to peas had become packe of the field. On as compared would naturally think that if harrowing would be fatal to any crop it would to peas, but
rashly ventured in where your correspondent, presume, would fear to tread, harrowed this por-
tion with the same heavy harrows both ways, and in a few days the crop here was catching up to that on the
satisfactorily.
If there is any sense in the theory of creating
dust mulch by surface cultivation a dust mulch by surface cultivation for the couservation or moll as to garden, root and corn grain crops as
culture? If freedom from binding and the access of air favors the growth of the latter,
why not the former ? And if weeds destroyed in their incipient stage
are cultivation in one case, why not in others? The oniy objection of any weight urged by your
correspondent against harrowing grain is that of correspondent against harrowing grain is that of
the labor involved in reopening ditches or waterurrows that may be filled in, and even tha lengthwise of the cross furrows which are the mains, but even if they have to be shovelled again it is
not a serious matter,, as compared with a crippled not a serious mater, as com a crusted surface.
crop for want of relief from
I am not advising indiscriminate harrowing. Every farmer should use his own judgment, and but I feel safe in advising a trial of this practice on a limited scale and where there seems to be most need of it, especially on clay land. And do
not wait until the land has become dry and hard before harrowing, for then the harrows may have
little effect, owing to the hardness, but harrow as soon as it is seen that the soil has run together,
while it is yet moist and will crumble-that is, as while it is yet moist and after, the rain, or a rain, as the land will work without sticking. Then you effect the
double purpose of relieving the pressure on the plants and of conserving the moisture that will

## A Bumper Corn Crop.

 To the Editor "Farmer's Advocate" :In the Middle West "Corn is King. growing has become the principal topic for conversation almost everywhere among the farmers.
An Institute without a corn talk would not be complete.
While many farmers appreciate and understand the value of a good corn crop in Ontario, there
are more who do not. It is with a view of stirare more who
ring up more interest in this subject that I am
now writing. I realize that the best is not being accomplished by our farmers, or anywhere reear THE SEED.-In the first place, what consti-
tutes good seed corn? To be good seed corn it should have undoubted vitality, which, when tested under favorable conditions, wil not only
germinate quickly and grow fast, but which, when put in the soil outside, will grow in the face of
(lifficult conditions. Such corn must be thor-
and oughly dried before hard freezing weather, and When properly dried it win its vitality destroyed 1 know of no better place to dry the seed corn
well than in the chamber above the kitchen.
favor growing the seed corn by itself, at least 40 rods from any other corn, on a rich ort well-culti-
vated piece of ground. If half an acre, say, were thus planted and special cultivation be given it the tassels on barren stalks renloved, and this
Whanted with selected seed corn to start with, I
believe we could areatly improve upon the yields helieve we could greatly improve upon the yields
we are now getting from the varieties in common use. In selecting seed corn from any source,
like the idea advanced by a Minnesota farmer Whe the idea advanced he argest ears, with the
who said "he selected the larger
d"cepest kernels, which would ripen before frost dcepest, kernels, which would ripen before frost
came." The ground to be planted should be made
rich If find that clover sod which has previously Ich. I find that clover sod which has previousty
acen top-dressed with a liberal aplication of
table manure and plowed in autumn, makes a arod chance. In the spring, on this seed-hed,
thoroughly pulverized and well cultivated, the on may be given both ways. belicve in any fixed
TIME TO PLANT.-I don't ime, nor do I plant by the moon, hut whenever
the ground is dry and warm enough to grow the May, This may be as early as the middle of
hat is the time to start the weeder or harrow. afternoon, as the sun kills the weeds much quickical time. I dorn't believe in through is a crittender shoots, and yet, if the ground had baked after a rain, I would feel like sacrificing some of
the corn to let the rest through, by harrowing it the corn to let the rest through, by harrowing it.
The amount of harrowing given to a corn crop The amount of harrowing given to a corn crop ator. He must take into consideration the
character of his soil and its humidity. No hard character of his soil and its humidity. No hard
and fast rules can be laid down for the use of and fast rules can be laid down for the use of
the weeder or harrow on corn. The weeder works
well in a dry season, but it isn't satisfactory well in a dry season, but it isn't satisfactory
when the ground is wet. needs it, but as the corn grows I want the cultineeds it, but as the corn grows I want the culti-
vation done shallow enough to prevent any root
pruning, and deep and often enough to destroy pruning, and deep and often enough to destroy weeds and keep a good dust-Dianket to conserve tion, about the time the corn is silking out, and shares are very useful in disposing of them. The greatest care should be taken that we in cultivating the corn we do not plow any out, or cover it so that it will not grow. I wonder
how many have figured on what yield should be obtained in a good corn season with good seed, good land, good cultivation, and, in fact, all the
links in the chain good and strong. If a check${ }_{3,240} 3 \mathrm{ft}$. 8 in . each way. This would give 3,240 hills to the acre. Allowing the crows or
something else to take the 40 hills, and supposing we could get three good-sized ears to the hill, averaging $11 \frac{1}{1}$ oz. in weight, this would mean
about 100 ears would make a bushel of shelled
corn. We have 3200 hills corn. We have 3,200 hills $\times 8=9,600$ ears, and
$\div$ by 100 ears, $=96$ bushels shelled corn per acre $\dot{=}$ by 100 ears, $=96$ bushels shelled corn per acre.
Who gets it? Isn't the average away below 50
bushels? Should it be so ? I claim we should bushels? Should it b
aim for better things.

UAIKI
Effect of Cow Fond on Dairy Products Which the fodder fed to cows may have on dairy products, and with a view to setlling the question
so far as cheese is concerned, the Agricultural Department of the University of Wisconsin has undertaken of late yoars a series of experiments which have thrown some light upon the question
The experiments were carried on with rape cluv The experiments were carried on with rape, clov
er, calbage and green corn, the most scrupulous care as to cleanliness being observed in milk-
ing and handling the milk, so that, as far as ing and handling the milk, so that, as far as
possible, extraneous germs which might cause flavors of other kinds might buring the time of investigation the cows were kept on good pasture during
the night, and stabled during the day : given pure water to drink, and fed a littie grain twice a day. EXPERIMENT WITH RAPE. which was sown in drills, three pounds to the acre being used. The first piece was sown early
in May, other sowings being made at intervals of a few weeks, so that a supply at various stages of maturity might the avalable. still fresh and
cut and fed to the cows while ste in fecding it green, and experiments were made in fecding it ing. In every case it was found that the most objectionable flavor was produced when the young
rape was given, also that better results were obtained when the rape was fed alter milking than Sefore. Curing the cheese at a low temperature
(40 degrees) was also found to produce cheese of a better flavor than that cured at a higher temperature. Upon the whole, however, rape was
not recommended highly as fodder. The cows ate it greedily, and the flow of milk was increased. what sharp rancid flavor, which "cannot be
chiminated by any art known to the cheesemaker nt the present time." Ever so limited quantity
of rape fed to the cows was found to produce a
ain taint in the milk.
OTHER STRONG FOODS
(abhage was also found to be an inferior fodder, the cheese made from the milk of cabbage-
fed cows beins invariably found to possess a disfed cows being invariably found to possess a dis-
ayrucable flavor, which became worse as the ripening advancerl. Milk from cows fed exclusive-
is on green clover, toin, produced cheese of an offGavor. Which tomme harp and Green corn however, was found to wixe milk of a monst excellent quality, excoption." the repurt states, "this cheese was free irom ofrensive odor and taste." Ostensibly
then jalyine from the result of these experi thenis frmers who raise cattle for the sake of make no mistake in making
dairy products. will make nold
provision for a good corn-field this season.

Answers to Questions for Dairymen. My favorite breed of dairy cow is the Ayrshire and ayrshire grades, because they give a large amount of milk, containing a good amount of butter-fat. Their
milk is adapted to any line of production-milk and cream for city trade, or for the production of cheese and butter. They beef readily when required, and make a choice quality of meat, with a small per cent. waste. They are a hardy, thrity breed, and will pro duce more prot for amount on than an other breed.

I send cream to City of Montreal. Milk and butter cord of my herd of 26 cows, from January 1st, 1904


Profit about $\$ 31$
labor, $\$ 8$ per cow.
We weigh every milking with a spring balance ecale; ake composite samples every four or six weeks, and This is very interesting work. By doing this the farmer takes greater interest in his herd, and it is sald "interest in our work lightens it." By this system and ande cows. He can also, It he wishes, keep an approxi-
able and he is able to mate estimate of the coarse foods fed-hay, ensilage. straw and pasture-and can keep a close account of the
grains ferl, and thereby also, Wo We select only deep-milking, high-testing femaloes
mate these with a pure-bred sire, from a family with good mitlk record; rear only the best heifer calves; wee that they are well fed when young with whole millk for at least. Mate them with a pure-bred sire of the same breed, so that they will drop thelr calves at from 80 to 36 months of age. Let the first lactation period le not less than ten months, so as to form the habit
of long milking. Feed them liberally with foods rich Iong milking. Feed them liberally with foods rich value of a cow, her anifual yield of milk must be known
Huntingdon Co., Que.
W. F. STEPHEN.

## The Milling Problem.

Commenting on a recent article by Prof. H. H. Dairyman says

$$
\begin{aligned}
& \text { Dairyman says: } \\
& \text { "I there is any one thing which would prove } \\
& \text { a boon to the dairy interest, it is a practical }
\end{aligned}
$$ a boon to the dairy interest, it is a practical well as it can be done by hand. Many milking inachines have been tricd from time to time, but none of hem have proved an entire success. Yet the day when a machine may prove a success, and when he and his family may be relieved from the

drudgery and expense of milking. Nor is this the only consideration. It is well known that poor
milking rums many cows-and the number of good
If a perfectly milkers is few and far between. If a perfectly
satisfactory man hine can tee invented, which will

Care of the Bull.
A large part of the success of a breeder of places at the head of his herd, or the quatity of
the animal and his care and management. A man the animal and his care and management. A Aval
may add a fine cow to his herd, and her individua calves will slowly improve it, but the influence o a fine bull is immediately perceptible in the calves from the whole herd, and a fair percentage should
be sunerior to their is necessary in the bull, that which lies back of him in his ancestry on both sides is equally so
Particular atcention should be given to the dam Particular atention should be given to the dam
of the bull, for he is more likely to impress her qualities on his offspring than hose of any in-
dividual animal, not excenting his own. The care dividual animal, not excepting his own. The car of a stock bull should begin with his birth. Hi
should be kept srowing steadily and fed that kin! should be kept growing steadily and fed that kind
of food which will produce a good growh of bonn and muscle without becoming ilat. Milk, new ot
ankimmed. ground oats, bran or middlings, an skimmed, ground oats, bran or middlings, and
good hay and grass are the best foods for a bull
ghat in indended good hay and grass are the best luods for a dis
that is intended for a long life of usefunness. Also he should have exercise by a run in a pasture
yard until he is eighteen months or two years
old. He should have kind treatment, but no familiar
petting. petung. Never on any accolnt afow anyone the buld be kept in the
play with him. The bult
barn where he is near the cows and as near barn where he is near the cows, and as near as
possible to one of the main passageways. near the cows he is contented and morc quict, and
if he if he stands where he constanuly sees the men
passing him he becomes familiar with them, and is not so liable to become virious. But on him
account should the men pay any attention to him in passing, either to quarrel with him or caress
him.
Let them understand that they are to let him alone and pay no attention whatever to
him. He should be frequently let loose in the yard with the cows, and aiter two years old it is
better to hood him when turned loose. He then gets the exercise without endangering any lives
or molesting the fence. In this way the bull mav be kept many yeers. without lidding out his
strenth, is muxh healthier and safer, and a surce strength, is much healthier, and safer, and a surer stock-getter, and is, 1 believe, much im re ind
to be the sire of quiet, pleasant oflspring. serving cows one service is enough, even better
for the cow than two, and certainly better for the bull. A cow with one service 1s. more i hathe
to have a calf than if more are allowed A yar-
ling bull may serve three or four cows a week with no injury to himself, if allowed only one serA two- or three-jear-old bull need not be so
imited if treated in this way; and his calves will be uniformly strong. it is the injudicious treatment and worse than unnecessary overwork that
injures the vitality of the buly and causes him
to sire weak calves and to have an carly dectine to sire weak calves and to have ant early dectmo
of power A litule grood judgment and common
sense wouid keep allinost any bull in active ussfulness
him.

## Province of Quebec Dairy Outlook.

## The season of 1905 opens up will every pron-- ise of nigher prices both of butter and chesese hail

 ise of higher prices both of butter and checese thanwere realzed ruring he senson of 1904 Stocks
seem to be completely cleanco up in Montreal and seem to be completely ceance up in thontreat, and
prices should be above the averate from the start.
Che numbur of factorics in operation will te alout the same, and it must be considerend a favorable
sign if an incerase of business is done, for ome
sin

 already gr
products. Greater attention repuires to he fiven to the
appearance of the finisilled article. Buttur-loxes are not unturm ind sizc, shappe or quality and are
ot always clean ; cheese valy in sive too mult li,
 boards throughut the trovince would he adm
tageous, but there is no need fous them to the. compectlive, as the case is alreandy in sume the
Uricts. Whiciat gradhe of till our lany prownce at Mon The st 1 vacint he pairy shool hat hat anoth Thation, aylul are intementel for makers or 26 day in making. The following ,omplyisess all tive 1.-Nov. 14 th 1026.2 .1901 : Buther ant


 employed by the Western Ontario Dairymen's Associa he Ontario Agricultural College, from April 3rd to the 8th. There will be eleven instructors employed by the
association for 1965 . Seven men will devote their atreammeries only, one will have a combination group of
checeries and creameries, while Mr. Geo. H. Barr will superintend the whole district west of Toronto, assisted by Mr. G. A. Putnam, Supt. of Farmers' Institutes.
The course consisted of five lectures on general and ppecinl dairying, by Prof. Dean and Mr. Ruddick, Dairy Commissioner, of Ottawa; two lectures were given on
dalry chemistry by Prof. Harcourt, combined with two nfternoons in the chemical laboratory, making tests for
preservatives, etc., in milk and cream ; three leetur andech and bacteriology were given by Prof. Harrison; three fore
noons were devoted to practical discussions, led by Mr Marr, regarding the best methods to adopt in securing
good results during the season; and one forenoon wa siven to the practical judging of cheese and butter. We
are indebted to Messrs. Robt. Johnston St Thomas are indebted to Messrs. Robt. Johnston, St. Thomas,
I'resident of the Western Daarrymen's Association; to Mr. Thos. Ballantyne, Jr., Stratford, and to Mr. Rud
dick, for their valuable assistance in this work of scor-
Mr. Ruddick in his lecture emphasized the importance of improvement in factory buildings, and the need o
cool-curing rooms at or near cheese factories. He also mentioned that expansion in Canadian dairying is likely
to be along butter lines rather than cheaso tion with the latter he said they were trying to im prove the refrigerator car service, and asked the co
operation of the instructors in securing exact informa-
fion regarding any irrerularitios in It was felt by all that greater attention should be Intario. In order to branch of dairying in Western
inade in our creameries, it is necessary quality of butter
in secure an improved quality of cream. This can be accomplished
lyy having the instructors visit the farms at the time liy having the instructors visit the farms at the time
the cream collectors get the cream. However, as therc
are only two men who will be devoting all their time are only two men who will be devoting all their time
to this work, it will be readily seen these men can
touch ouly the fringe of the patrons. That this method will work wonders in the improvement of the cream de-
livered was proved last year. Since this plan has been ndopted nearly all the creameries are making applica-
ition for the services of an instructur. were very backward about making npplication. We winter, that the plan of going to the farm and splending a few minutes with each patron does a great deal
if good
Before we adouted this pan we found it imWessible to secure a quality of cream suitable for our
Nfter a friendly call upon the patrons hy our
Whstruct ess in the farm dairy, Miss Rose, we noticed a nurked improvement in the quality of the butter made
 -humat dinfoul for stamping all glassware in uthe as 2n! manne ${ }^{1 t} \mathrm{Na}^{\text {nas }}$ mso puinted out that the oil

In order to facilltate the introduction of the Babcock test, the use of a convenient spring balance shoul
be sanctioned by the Government. There is no reaso why a spring balance inspected at suitable interval should not be allowed for weighing cream at the farm The writer emphasized the need of an instructor hav
ing confidence in his own ability, in order that he may be able to impress himself upon those with whom h comes in contact. Confidence is the result of knowing Knowledge is the result of experience, thought, and解 to do and say the righ thing at the right time. To get such a man require almost a spectal act of creation. An instructor need. Mr. Barr, in his parting word to the men, laid
Min special. stress upon the importance of cheerfulness and
an optimistic character in order to succeed. An in an optimistic character in order to succeed. An structor should leave the thane mement and patrons, that things look brighter and better as a result of his visit. He went so faras ray that a pessimist should not engage in the work a
Cheery optimism is certainly a great help to a man in any line of work, and especially in the work of in
structing and assisting the men concerned in the dairy business. An instructor is very apt to grow discour aged and downhearted, hence needs to cultivate
cheerful disposition. Hail to the cheerful man in any cheerful disposition. Hall to the cheerrul man of life !
w. DEAN.

## HOULTRY

## The First Lay of the Pullets.

## My children, don't fancy these eggs are mere luck

 Remember my care when you were wee things, How I kept you all warm neath my motherly wings,```
That helplp to
```

rowed the old father rooster, as soon as he knew

- Now you see what a great Cock-a-doodle can do;
You have watched me with profit, from morning till
S I strutted and scratched to your mother's delight
nd explained all the methods considered the best."
Quoth Good Falmer hrown, when he came in
Wife, the early Minorcas are startin' to lay;
Well, I've given 'em powders an' ground bone an' meat
$A_{n}$ ' watched 'em right smart, an' kept the nests sweet
They're good stock, but then I've a knack,' an' I say
kut the paraded the sheds.
nd turned up their combs, and flirted their heads,
And laughed in their feathers, and said, saucy elves,
We know that we laid those egrg all by oursolveg
hat we laid those eggs all by ourselves
Sick Turkeys.
rites : "I have two pure-bred turkeys,
bout three months ago they swelled up between the
yes and mouth, so much that it seemed to prevent
ryes and mouth, so much that it seemed to prevent
them breathing, and they would sneeze every little while.
I took my knife and cut the swelling open in the one
hat was ailing the longest. The inside of swelling ap-
peared just like the white of an egg boiled hard. I
craped it all out, and for anything I can see this
urkey is all right. The swelling in the other one
was like the white of an egg raw. This last one had
The swelling has come back again. I would like to
now what it is, and what is the cause and cure? ?"
Ans.-The turkeys are affected with one of the forms
Uurkey would have developed the same as the first, had
ot the swelling been opened at an early stace, , The
Welling in most cases is due to the small duct leading
enting the discharge from the nostrils. pus, thus pro-
The following treatment has been successfully used
hy a noted turkey-raiser: Make a strong solution of
Wriably, and dip the turkey's bear your hand in com-
immersing it. It would be well before doing this completely
Wash the bird's nose out sllghtly, so as to make the
assage as clean as possible. The bird's head would
cheld under water for some little time, in
Wder to induce the bird to draw up more or less of the
nit water in the nostrils. As soon as the bird's head
is removed from the water, and it gets breathing natur
ally, try and clean all the discharge from the nose.
The following ointment, if rubbed over the throt
The following ointment, if rubhed over the throat, face
hulp the disease: Make a salve of carbolized vasseline
to which has been added a few drops of spirits of cam-
thor. If there was only a slipht swelling
inclined to there was only a slight swelling, I would be
ify machine oil-can and nearly fill it with warm water
Washing the head with salt and water, inject the wate
and iodine from the can up the birder, inject the wastrise and the
roof of the mouth; at the same time, try and remove



APREL 20, 1908
that it to good poikey to try to treat breading stock. practical purfooese might petter bo out of the country
 are not healthy, athough there aro exxert ons to th ons
ruie.

The Incubator and Brooder on the Farm. ubators, used but one year, for sale cheap by farmers who have tried them and decided to go
back to hens. We have interviewed some of hem, and find that in every case the dissatisfaction is not from inability hatched two things; first, for fear of scaring the purchaser out, most poultry suppy companies ac-- ommodate away beyond its real capacity (if die). Second, a beginner does not understand several mistakes. He usually feeds the chicks as
soon as they are hatched. The chich gets from he egg enough nutriment to last it 48 hours if necessary, and even longer, and should never be fed or given water till at least twenty-four
hours old. Up to that time it should be allowed At first they should be fed every two hours, as much as they will eat in five minutes, the feed
placed in flat dishes or simall wooden troughs, grow older they should be fed more at a timic
and less often, till at four weeks of age they may ee what thes wil eat up clean three times a day. They should be fed chick lood or cracked water. The temperature of the brooder should be
Thatched carefully, and the chicks not allowed to watched carefully, and the chicks not alowed to
get too hot or too cold. To save the expense of
many brooders, some successiul breeders take a mamy broders, out of the brooder as they grow large
number out
moneh to crowd, and place them in a small cop mough to crowd, and place then in a small coop
made of a dry-goods box, which is kept warm
by a pallon jug of warm water wrapped in old woollen cloths. If the boxes are kept in a build-
ing while the chicks are less than a month old, these boxes heated by hot water will raise chicks successfully without lamp-heatect threugh th
woman of our acquaintance went
last season in this way without losing a chick. perionced brepeders think they are doing well wh
hry bring twent $y$ five chicks to maturaty very hundred eggs set. Count the megs ect un
der hens-for a season and the birds matured, tud
Noul will find that they do no better. Jon't exrect ton much of the inculator. The fact tlat
one can hatch all his chicks early antd sol get
winter lavers, is an advantace in favor of the in-

For What Purpose are the Poultry As sociation Grants?



Why the Hens Don't Lay
number of breeds recognized, and insuring for the utility breeds some of the money that is now being diverted
to the encouragement of poultry fads. Referring to this matter, a correspondent says: "As it is, cheques the shows, and much expense and trouble saved, fo these men will get the money anyway. As for the farmer, he is suppiosed to be tractable, to pay his win prizes that his money pays for. By , cutting down the premiums on the rare varieties, money would b
anvailable for more and larger prizes in the utility
clascos in which the frer is Classes in which the farmer is in

## Selecting Eggs for Hatching.

number of important points have to be attended by poultry-keepers who raise their chicks in the in course there are incubators and incubators, and the
modes of working one make may be very different from those of working another, but in every case there an pend the chances of success. One of these golden rules relates to the selection of the eggs which are destined of first importance, not only in regard to incubators, it is a very great mistake to suppose, as some poultry-


Spring Pets.
ected in selecting a surply for incubation. It may be Laced in the tray or under the hen. Many breeders ceem to forget, or, at any rate, overlook, this fact, and fumber of ngys needed made up quickly, and started on the hatching process as soon as possible after they are
aid. In making a selection abnormally large eggs
fhould be avoided, as in many instances these contain

APIARY

## The Farmer and His Bees: No. 2

Everybody is, or should be, familiar with the say-
g, ${ }^{\text {Anything that is worth doing is worth doing }}$ der ng, ". Anything hat exceptions-it even applies to the keeping of a few hives of bees by the average farmer. Tho only right way o keep bees is to keep them in novalle comb hives, \& the farmer with a colony or two in box hives decides he has not the price or inclination to provide them with proper lodging, the next best thing for him to do lo sim that he the ter alternative, is what the writer wants to do. It may strike the man who is busy with his farm work that it s a lot of extra work running bees properly-more than e has time for. This is where ho thinks beyond his roperly managed, need not have more tnan a few hours' ttention during the busy season. An expert beekeeper when he has them in hives where he can see what they are doing, whereas if they were in box hives he would oe unable to do anything with such a number. A very ry knowledge for the management of few hives, so hat he can have his swarming (the bugbear of the armer-beekeeper) when it is most convenient for him, ives there can be mo control of swarming-the boes解 it entirely in their own hands (or wings), and che out when they are ready, regarduess in a hayhid, hustling to got ahead or approong rein, And these blg colonies in box hives sometimes do, Mr. Farmor decides that bees are a bother, and take more time han they are worth, especially when he examines his
numerous small swarms in the fall and finds only one or two with enough honey to make it worth while brtmstoning them (the only way he knows to get the honey hem through the perhaps, with movable comb hives all this is changed. He can have control of swarming. as stated above, can take his honey off without kllling nough honey back into it in five minutes to winter it safely. Think it over, Mr. Farmer with a fow bees, and you will probably conclude that you can't alford o keep your bees in the old way any longer. II you you've made a mistake somewhere.

## Top Grafting

Mr. C. A. N., St. George, Ont., asks : "About What is the best time to graft? Would you advise lof-grafting 25 -year-old Greening and Seek trees with he Hubberdoton end Nonsuch variety $?^{\prime \prime}$
Ans.-1 would not advise top-grafting good, thrilty Greening is ceertainly one of the leading varieties for market or home use, and the Seek also is not inferior - Hubbardston, although Hubbardston is an excellent variety. Top-grafting may be done any time now
after sovere frosts are over, and is somelimes practiced as late as the first of June, although it is best to do it in April, before growth starts, Most any size of
limb may be grafted, but the larger the limb removed imb may be grafted, but the larger the limb removed
he more severe will be the check to the tree, and the greater the lose of valuable wood. The most satisfacory size is one about an inch in diameter. This is
arge enough to accommodate two sclons, which is ometimes an advantage.
Ontario Agrlcultural College.

## Bridge Grafting - Girdled Peach Trees

 R. W. S., Forest, Ont., writes: " We have a nice adly girdled by mice during the winter. About sixty of the trees are glrdled all around, and about forty nore partly girdled wil treas graft like a pear r apple tree $7^{\prime \prime}$ Ans.-The peach tree may be grafted the same as the apple or the pear. Your best plan, if the trees heave been entirely girdled, would be to put in three or fourbridgeg grafts in in each tree. The sclons for this bridging bridgegrafts in each tree. The sclons for this bridging
should be strong shoots. of last year's growth. They should be cut with a bevel on each end, so as to bring them in close contact with the wood when ineerted just underneath the bark. All that is necessury is $t$ as to bridge over the infury and convey the cambium from the top to the roots. After the scions are ing wax; or, if the injury is close to the pround, it is hest to bank up with earth, so as th) (over all of the is necessary for those partilly girdled, but where the injury extends at least one hall way round the tree, would be better to insert one or two bridge grafts.
Ontario Agricultural College.
H. L. HUTT

## The Child and the Garden.

Love of working with the land is by no means comined to as limited numbers as some people imagine. On the contrary, there seems to be a
something about stirring up the warm, brown soil, freighted with pleasant odors and promise of coming fruitfulness, that appeals to nearly all normal people. There is a genuine pleasure in it,
and if you are normal you dig, and hoe, and rake, and put in the curious little seeds of so many different shapes, with more satisfaction than you do most other things in the woufd. You are getting the exercise that is good for you, and the pure air of God's heaven; you are doing nothing
that can ever rebuke you, and are lured on by that can ever rebuke you, and are lured on by Should you ever feel inclined to look contemptuously upon the work of ". mucking in the soil,"
or those who are interested in it, you may take or for granted that there is something wrong with you, either with your training, your judgment, or
some other branch of your mental make-up-you some other branch of your mental make-up-you
are abnormal, or else you have never given it a are abnorme Remember, the most eminent among men have been by no means ashamed to be interested in good old mother earth and her products. The enthusiastic agriculturists. Granted that they do not do the manual labor part of it with their
own hands; they cannot despise that in which they own hands; they cannot despise that in which they
are interested. Passing them, however, what of Thoreau, university graduate, philosopher, naturalist, writer and "farm hand "? What of Emerson, with whom he worked side by side in
the garden? Of George William Curtis, who the garden ? Of George William Curtis, who
was "also a farm hand out at the Lowell Road, but came into town Saturday evenings-taking a swim in the river on the way-to attend the
philosophical conferences at Emerson's house "? philosophical conferences at Emerson's house"? Farm-Hawthorne and Charles Dana? What of the British novelists, Haggard and Buchanan,
practical farmers ; of Tolstoi, the great Ruspractical farmers; of
sian ; and of Paderewski, the famous pianist at present touring Canada, who, on his estate in Poland, goes about in a rough suit superiatend-
ing, and lending a hand here and there? A long ing, and lending a hand here and there? A long
prelude, yet useful, maybe, in establishing what we wish to establish, viz., that interest in the soil is normal, beneficial,, and worthy
greatest minds of our own or any day.
Now, to come to our more immediate subject, that of the "Child and the Garden".: In many respects children are in no way different from
grown people. They cnjoy doing the same things grown people. They enjoy doing the same things they like work that absorbs them; they receive the same sense of satisfaction as older folk in habits of diligence, order and economy, provided
these be developed in them-not forced upon these be developed in them-not forced upon
them. Now, few systems of discipline supply all these conditions more perfectly than the working of a little garden of the child s own. In the first
place, he loves gardening because it is something place, he loves gardening because it is something
that his father or mother does; he feels of some use and importance when engaged at it. In the second place, the work, if he enters into it enthus-
iastically, keeps him busy and interested, essential conditions to happy, progressive child-life. Last of all, the care and attention necessary, if wisely directed and encouraged, must, of necessity, train
his powers of observation, and develop in him his powers of observation, and develop
habits of industry, system and neatness.
Taking it for granted, then, that work with the soil is a good thing for the child, the next question is how he may be induced to begin it,
and how he may be so directed and encouraged hat it will be of positive benefit to him. In 99 cases out of 100 the chief burden of directing the child's development falls upon the school. Recog-
nizing this, and the value of the garden as a "developer," the educationists of the day have not been slow to advance the claims of the latter.
so far as consolidated schools, with paid care takers who will look after the plots during the long summer vacation, are concerned, the problem
has been solved. But the ordinary rural school has been solved. But the ordinary rural school
presents very different conditions. Let its garden be never so gay with flowers and vines, once the
vacation comes, with its almost inevitable negvacation comes, with its almost inevitabre is another story. Weeds grow up, flowers die out for want of water, a stray pig Or cow breaks in and accomplishes disaster
little wonder it is that the children return little wonder it is that the children return to
school discouraged, and with the determination school discouraged, and wita the
never to try another school garden.
About the only way of obviating

About the only way of obviating this difficulty in many schools, in so far, at least, as keeping
the school-yard attractive is concerned, is to provide trees in plenty, and "plunge". (submerge in earth to the rim) flower-pots in the beds. When vacation time comes the pots of geraniums,
etc., may be taken home and cared for until the reopening of school
This species of gardening, however, is useful

only to a limited extent. It provides for the child little opportunity of seeing the various kinds of seed sprout and grow from the first tiny lear
let to the mature plant, rich with flower or vege table or fruit. There is a much better plan Which has been successfully carried out in severai The parents of each child are requested to provide him (or her, as the case may be) with a pmal
garden-plot at his home. Each child is then given a list of names of flowers and vegetables which are known to be easily-grown varieties, and is given his chóoice of three kinds of seeds- flowers or vegetables, as he choses. He is supplied with the
seed at the school, and told how to plant and care fol them. Stimulus to good work is pro vided y pericical visits of the teacher to the
variut: "yardens, and by the arrangement to have variul: vardens, and by the arrangement special exnir, Every child who exhibits is given an exi, i, itor's ticket, allowing free admission each
day, and proud indeed are the possessors of these day, and proud indeed are the possessors of the
privileged passes. The accompanying cut shows privileged passes. The accompanying cut shows schools, as shown at the Worcester, Mass, fair. The cut was printed originally in the Natur
Study Magazine. In the great majority of cases it has been found that the enthusiasm of the children did not flag throughout the season. In accounting for the
few failures, one prominent teacher says: "The few failures, one prominent teacher says "The
gardens which were indifierent belonged to the class of children who delight in beginning things, but who have not the moral stamina to
push on to a completed result. However, the push on to a completed result. However, the
lesson probably was helpful so far as it went. The same teacher also tells of the wholesome di-
light of the young gardeners in their work light of the young gardeners in their work
". Mothers," she says, "told me their children did not wish to go away even for a few days,
because the garden would need attention during their absence. $?$
should be given charge of garden-plots on farms where there are already, as av rule, gardens filled
with all necessary vegetables and flowers. should be remembered, however, that these gardens are made, not for their material but for their ies of manual training, whose worth consists in its effect upon hand, mind and will. Since so easy a solution of the school-garden
problem presents itself, why should not our proiblem prosen in Canada introduce the scheme, and follow it up with the enthusiasm which alone will bring success?

## The Onion.

By Mrs. Anna L. Jack
Soon after the sowing and rolling of the onion bed, weeding will be needed, and this process must be carefully done, so as not to disturb the rootlets by loosening the earth too much about them. If the land aster to a wheel hoe is the best implemeat, and it is than to have thelh them whe alto than to have to pull them out after they grow large enough to have a firm hold of the ground. In regard asimilate any amount of food of a stimulating nature and will soon show the result in quickened growth, that puts it beyond the reach of its enemies. When about three or four inches high, the onions should be thinned out, to two or three inches apart, and the ground must be constantly stirred to keep up hot ripen so well. The onion is a valuable vegetable modicinally, and acts on the system as an expectorant, diuretic, stimulant, and diaphoretic. It is highly ben-
eficial in cases of asthma and oppressive breathing. eficial in cases of asthma and oppressive breathing.
The onion has been known and cultivated as an The onion has been known and cultivated as an
article of food from the very earliest period. In Scriparticle of food from the very eariest period. In Scrip-
ture we find it one of the things for which the Isreelites
felt felt a backward longing, during their wanderings in the
wilderness, and at the present day the people of Weatern Filderness, and at the present day the people of Weatern
Asia are large consumers of this pungent vegetable. While some tastes repudiate its flavor, it was a pleasant sentiment expressed by Dudley Warner, who wrote, Happy is that family which can eat onions cogether. naggot will be benefited by knowing that ventive is to change the onion-bed every year. Conrary to the too prevalent opinion, this will also conluce to a larger yield. During the growing season,
remave any affected onions, recognizable from their sick
 hem, which should be destroyed. Another remedy that

## Cellars for Storing Apples and Eggs.

A British Columbia subscriber, asks informa
lated row to construct a good, dry, properly-venticellar for apples, and another for eggs. Believing he best medium for colleoting original and modern ideas on such subjects, we throw the question en to our, readers, with invitation to send us struction and elevation, as well as of the conrangements, of any such buildings in satisfactory

The Fruit Division, Ottawa, has received notice hrough its fruit crop correspondents, that apricots were in bloom in Lytton, B. C., the 31st of March. The
peaches were just ready to bloom last week. And the eaches were just ready to bloom last week, and the be desired. There is, however, yet a danger of a late ost, and, therefore, for a were a danger of a late frost, and, therefore, for a week or
cannot be very definitely estimated.


A Home Garden Planted and Cared For by a Girl of Twelve.


Fall Fair Exhibit of School at Worcester, Mass.

## NEWS OF THE DAY.

## Canadian

Another valuable oil well, yielding two
minute, has been struck at Leamington, ont
$\rightarrow$ at. Ont.
One million whitefis
Erie, at Port Stanley.
Six hundred more farmers left Toronto on the Homeeekers Excursion to the West last week.
Mr. George McKenzie, who has been exploring in
Northern British Columbia, reports having found a vast Northern British Columbia,
coal area in that vicinity
A disastrous fire, causing losses amounting to $\$ 30$,
000 occurred at Manitowaning, Manitoulin Island, recently. Japanese Consul-General, that the anti-Japanese acts
of the British Columbia Legislature will be vetoed by of the British Columbl,
the Federal Government.
At the half-yearly meeting of the Grand Trunk Rail-
way held recently, the President said the company would way held recently, the President said the company would
fight any attempt in Ontario to increase its taxes.

Signor Marconi and his bride are in Canada. Marconi will inspect the wireless telegraph station at Glace
Bay, C. B., and will make arrangements for the sta-
Ber Bay, C.B., and to
tions which are to
ous inland points.
Rider Haggard, who has come as an Imperial deleate to investigate immigration conditions, with a vicw
to finding homes for the unemployed British, is at present in Canada. A scheme is afoot for putting build-
ings on lands sold to British immigrants, and allowing

## British and Foreign.

 The total number of deaths resulting from the recent Four hundred Spanish workmen have been buried byhe collapse of a reservoir at Madrid, Spain. The sum of $\$ 100,000$ has been accepted as a girt
from John D. Rockefeller by the American Baptist misSince the beginning of the Russo-Japanese war, 22 vessels bound for Vladivostok with contraband trade
have been seized by the Japanese, with a consequent gain of over $\$ 6,000,000$ to the Japanese
In a recent encounter between the troops of the
Sultan and the rebels in Morocco, the Sultan's troops were compelled to retire with much loss of life. The
retreat would have bees an utter rout had it not been retreat would have bees an uctor offcer, Lieut. Mongin,
for the services of the French ofles.
who, with his French frontier forces, interposed. The great Russian fleet is still steadily bearing
northward, and Roiestvensky has sent his last message to the Czar: "I will not telegraph you again before
the battle. Is am beaten, you will learn it through Togo. If I defeat him I will announce it to you."
This great battle may, possibly, have taken place be
fore this paper can reach its readers; where and how This great baper can reach its readers; where and how
fore this paper to the great-
are still matters of vaguest turmise even to
patren noulral naval experts. The strength of the two est neutral naval experts. The strength of the two
fleets which will thus meet in what will probably be fleets w the most terrific sea encounters on record is as
one of the battleships, of a
follows The Japanese have five total of 69,800 tons, with 14.6 -nch armor, an Russians
ing a total broadside of 20,706 pound. The Rounth
have seven ships, of 85,094 tons, with from 10.5 to have seven ships, of 85,094 tons, with from 10.5
125 inches of armor, and with a total bradiside of 26 , 966 pounds. In armored cruisers the contrast is over-
Whaliningly in favor of Japan. She has elght such
ships of 73.552 tons, with a total broadside of 13,766 ships, of 73,552 tons, with a
pounds, to Russia's two ships, of 14,393 tons, and of
only 1,388 pounds broadside. In the third class, of protected cruisers, Japan has also an enormous advantage,
having 14 ships, of 52,543 tons, and of 10,969 pounds
broadside againgt Russia's six shlps of 26,818 tons, and 2,532 pounds broadside. Upon land progress
is being made but slowly, and it is now thought that is being made but slowly, and it is now ho big battle
Marshal Oyama will have to fight another bass From St.
before he can take possession of Harbin. Fine hefore he can take possession of Harbin. From St.
letershurg come rumors that the Czar has become tn-
sane. The report, however, has not yet been con-

## The Lewis and Clark Exposition

 Mepartment of the Lewis and Clark Expostion (this in commemoration of the 100 ath anniversary of the exploration of the Oregon cuntry.
announces the the the livestock show in connection with 29e Liberal cash
be held Auguat 28th to September 29th.
prizes are being offered in all the leading classes o prizes are sed but there will be nio dairy teast. The expo
live stock, aitur monthins

THE FARM BULLETIN
The Dominion Agriculturist on "Stock Food "Experiments.
Sir,-In your issue of the 23 rd of March appears a
letter, purporting to be written by one E. B. Savage, evidently an employee of, or an agent for, the Inter-
national Stock Food Co. In this letter your correspondent undertakes to criticise the experiment with
tock foods recently conducted here. I am sorry to stock foods recently conducted here. I am sorry to
have to ask you to afford me sufficient space in your
valut valuable paper to enable me to reply to the various
claims put forward and charges made by your correclaims put forward and charges made by your corre
spondent, but I think you will admit that some of the
tatements made by Mr. Savage call for rebuttal or ex statements made by Mr. Savage call for rebuttal or exstatements
planation.
Permit
Permit me, therefore, to consider in turn some
he points taken up in the above-mentioned letter. the points taken up in the above-mention International Stock Food should be fed as a tonic to live stock
suffering from indigestion or other ills, and $I$ admit that it is just possible that fed for this reason International time any other stock food may prove profable your correspondent a few lines further
time time). But your correspondent a few lines further on
says: ."Secondly, it should be used as an addition to the grain rations of all fattening stock, for the purpose
of STIMULATING the digestive organs." Sclentific and practical men interested are and that the continuous use of stimulants is degenerative in its general effects, usually having for particular effect the enfeebling of
the organ or organs more highly stimulated. and the the organ or organs more highly stimulated, and tion
creating of unnatural appetites. Again, a preparation creating of unnatural appeties. Again, and likely to
or prescriptuon that is tonic in efrect and prove helpful in time of ill health is, if its use be con-
tinued after the restoration of health, likely to prove a tinued after the restoration a bertain to prove
detriment rather tham a benefit, and certain 2. Then Mr. Savage states: "it is a well-known
scientid sclentific fact that the average farm animal has im-
paired difestion to e greater or lesser extent." I have paired digestion to a greater or lesser extent.
made a study of sclentlific agriculture for many years made a study of sclecial attention to animal nutritton and, Sir, never, save in stock-food advertlsements, have
and come across, the above quoted foundationless remark. I come across the above quoted founda anyone who held Further, I have not been abie heard it or seen it advanced, save in the above-mentioned connection. I am sure the
average larmer will bear me out in this, that under average larmer wlll bear me out in this, that under
normal conditions of food, water, air and light, 99 per normal conditions of food, water, air and light, 99 per
cent. or more of the live stock of this country are in perfect health, so far as digestion is concerned.
3. As one of the stafl of the Dominion Experimenta Farms, I was glad to hear that Mr. Savage was not prejudiced against us. We have no ambition
International Stock Food Company, or any other stock food company, any harm. We are anxious.
what we can about stock-feeding problems.
what we can about stock-feeding problems.
The markets in Canada to-day have many sto
隹 The markets in Canada to-day have many
foods on sale.
Does f not seem reasonable that we
 these stock foods? If our arst experiment along thi
line had resulted in showing a declded advantage fro the use of them, would not the companies have been glad to see the result published? Why should they object them when the results are agalnst them? if in Tuture experiments results more favorable published.
stock foods are secured, they too will be the heaviest gains made by any of the lots fed. Had he taken the trouble to look up data on this matcer,
found that an average gain of 1 lb . per day is considered very good feeding. The average dally gains all the 32 pigs fed on the experiment was 1.15 lbs. digy. Migs making such gains would be ready for the
block in about $5 \$$ months from birth. Now, it is well known that the average Canadian pig 1 s not ready for the best market ( 180 lbs . live weight) that these pigs were falrly thritty. Aht Io not say that they are never made, I do say that they are the exception and not the rule, and are
usually made for a short time only. Wo have records usually made for a short time only. We have recorda
of such gains here, but some partlcular reason can usually be given for thelr showing up. Besides, the
production of first-class baconi and the very rapid fat production of arst-class bacon and the very rapld fat opposed to each other.
5. Mr. Savage says the report is "in the form of a 5. Mr. Savage says the report itistical table," and as statistical tables are no good, therefore this report is no good, The report took the ciseness. It is not a statlstical table, as Mr. Savage very well knows.
Then, again, Mr. Savage compares ". ordinary practical conditions," and "conditions found on an experi
mental farm." I spend a good deal of time on one mental farm." I spend a good deal of time on one
oxperimental farm, and have visited some score or more oxperimental farm, and have more or loss \&requently, and
other experimental farms more have never noticed any partlcular difference between the
foods, the ait, the water, the bulldings and the attendfoods, the air, the water, the bulldings and the attend-
ance found on experlimental farms and on ordmary ance found on conditions are, I
farms, and these cond
factors effectimg the gTowth of plgs.
factore affecting the growth of pigs.
B. Your Mr. Savage says. "The plge on which the The hearljeet lot, the one on moel alono, averaged 75
 meal avd ontm mille
ins. each. B 2 bs. each.
The lot on Herbageum Stock Food averaged 55 lbs. The lot on meal outside averaged 51 lbs . each. The lot on meal outside, with pasture, averaged 623
ibs. each. Not a great deal of difference after all, is there?
Further, the results of very many authentic feeding trials with plgs go to show that the younger the pig the cheaper the gains. This being the case, it is evident that the lot on meal alone inste samored the something of a handicap when compared fod on meal alone
fed on International Stock Food. The lot fill $\$ 4.38$, while the
 younger lot, on International stock pood,
have beerk expected to make gadns somewhat more cheaply had meal alone been fed, cost, when International Stock Food was fod, in addition to a similar meal
Sthe pligs on
Stich ration, $\$ 6.17$ per 100 lbs . live weight. The plgs on
meal alone outside, starting at 51 lbs . (practically the meal alone outside, sear on International Sostck Food), same weight as the lot on International Stock
made 100 lbs. gain in live weight at a cost of $\$ 4.81$, slightly cheaper than the gains made by the lot on meel
alone inside. alone inside. Supposing the fact of bing inside or
outside of no consequence (and I belleve it to be but autside of natter, judging from other experiments), these results go to show that the lot fed on International
Stock Food should have made gains more cheaply than Stock Food should have made gaide of them in the pen. They did not do so.
7 . As to Mr. Savage's contention that it would be practically impossible to got togothe take on flesh with equal rapidity, I may
the pigs were bred on the Experimental Farm here, the pigs were bred on the Experimental Marme higs
where from 20 to 30 brood sowB are kept. The pigs
were diferent breeds, Yorkshire, Berkshtre, Tamworth were of different breeds, Yorkshire, Berksh1re, Tamworth and Large Black, one of each breed in each iot as near-
iy as posstble. The individuals in the lots were unt-
The form in size, which fact accounts for the average weight of some of the lots being greater than the average wetght of some other lots. It has been found better
to have the plgs in one pen of uniform size, rather than have the average weights oll different lots equal where arranging pigs somenhat uneven in slize or age for an
As will be readily understood, the breeding of 32 plgs to be of exactly the same welght and the same age at a given time is very difmcult, if not
 as a four weeks' difference in age between the lhargoet and smallest pigs, the individuals were, with
tion of the lot fed on skim milk, hoalthy and vigorous. The lot on skim milk was made up of the smallest plgs from four litters. The result speaks volumes
milk as a food for pork production. milk as a
Probably Mr . Savage's fear that all plge would not put on feesh with the same rapldity explainn the
wise apparently inexplicable fact, that, I
I can
far as wise apparently inexplicable fact, that, seon thas has been conducted by any of the Stock Food Companies to
demonstrate the exact value of their preparations as meal savers.
8. Mr. Savage states thiat ". the eame amount of
and grain was not fed to each inmal it the supplementary food was of a character to enable " more of the feeding stuf was of a characte the system and go towards bullding up the body so that less of it needed to be fed," the
plementary feeding stuff (not we) was responsible. plementary feeding stuff (not wo) was responsibie. asted
In conclusion, I may say that we do not, as stated in our report, intend to let thls mattor drop here, but in our carrying on a similar experiment in the near
purpore con in the 1904 experiment we followed the printed
future. future. In the
directions as to quantity and manner of feeding of each directions ask quan. If these directions are not sumb clently accurate we are not to blame. Is any of the
cer stock food companies have any suggeestions to onfer
to method of feeding thelr foods, we would be glad to he method of foeding their 1oods, J. Hi GRISDALE,
hear trom them.
Agriculturist.

Stock-judging Contests.
An interesting feature of many of the county exhiblions in the Ottawa Valley during the coming fall will deanite rules to govern the competitions heve not yot
do beon adopted, it is proposed to bar out college grad uates, and to place the age limit at elighteen. In
nection with these contests, a movement is on to nection with these costests, a movement in on onts throughout the counties interested during the early part of the summer, at which an expert judge will insiruct proapee
live competitors in the fundamental princlples of live stock judging. The Ottawa Valley has the reputation of being one of the best exhbitition dirticts in Canada and in inaugurating these classes it is expected the will bo
terest in live-stock fudging amoug farmers' terest in live
stimulated.

## Compensation for Clanders.

We understand that an order-in-council was passed at Ottawa recently, authorizing compensa tion for glandered horses showing clinical symptoms. Formerly clinical cases were not parcting
by the Dominion Government, only those real by the Dominion Government, only chose vidences.
to the Mallein test without the clinical evic This expensive equine scourge ought soon to disappear under the active researches of the ase not

| MARKETS. | Montreal. |
| :---: | :---: |
| Toronto. LIVE stock. <br> The feature is the strength of the beef | $\begin{aligned} & \text { of egrs in Montreal. have been } \\ & \text { far this season. Merchants } \\ & \text { corntry purchases at } 18 \text { to. to } 18 \end{aligned}$ |
|  |  |
| The feature is the strength of the beet local dealer is quoted as saying: "The |  |
|  | Suter-Choicast selling at 25c.; |
| materially advanced. Choice are quoted at $\$ 5.25$ to $\$ 5.75$; good to medium, $\$ 5$ to 85.20 ; others, $\$ 4.75$ to 85 , and bulls | Cheese-a few hundred boxes of |
|  | 5 $\begin{aligned} & \text { reported to date : probability } \\ & \text { make of fodders. } \\ & \text { Quoted at }\end{aligned}$ |
|  |  |
| higher; offering sold steady. Good to choice are quoted at 85 to 85.50 ; Jair to um, $\$ 8.75$ to $\$ 4.50$, and common, 83 to |  |
|  |  |
|  |  |
| and bulls at $\$ 2.90$ to $\$ 3.50$ <br> Stockers and Feeders-Light receipts Feeders are quoted at $\$ 4$ to $\$ 5$, and |  |
|  |  |
| Calves-Flenty offering. Market easy 88 in tone <br> $\$ 8$ each |  |
|  | ${ }_{\text {a }}^{\text {arrivals }}$ market. |
| port sheep are quoted at $\$ 3.75$ to $\$ 5.50$ <br> per cwt.; mixed at $\$ 4.50$ to $\$ 5$; grain <br> red lambs, ewes and wethers, $\$ 7.25$ to $\$ 7.75$; bucks, $\$ 6.50$ to $\$ 7$, and springs |  |
|  |  |
|  |  |
| $\$ 3$ to $\$ 6$ each. though actual quotations given are unchanged at $\$ 6.25$ for selects, and $\$ 6$ for heavies. As high as $\$ 9$ per cwt . is being paid for dressed here, which would seem near future. <br> grain, flotir and feeds. |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | $\begin{aligned} & \text { ons of a fairly firm market. } \\ & \text { from St. John, N. B., and } \end{aligned}$ |
|  |  |
|  | c |
|  | show a slight advance, and there are now |
|  | too many oflering. A few choice sold at |
|  |  |
| Millfeed-Firm at $\$ 17$ for bran, and$\$ 18.50$ to $\$ 19$ for shorts. Manitoba $\$ 21$ for shorts, and $\$ 19$ for bran Barley-Very dull at 46 c . to 47 c . for | to |
|  |  |
|  |  |
| 48 c . for No. 3 malting outside. Toronto freights. <br> Corn-Canadian firm; 47 c . to 48 c . for |  |
|  |  |
| yellow, and 46 c . to 47 c . for mixed, ${ }^{\text {or }}$b., Chatham freights ; American, No. 8 yellow. 55 c . to 55 fc .; mixed, 54 fc . to 55c., on track, Toronto. Oats-Steady ; 40c. to 41 c . for No. 2 |  |
|  |  |
|  |  |
|  |  |
|  | Pared with a wook ago. Pricos had then |
| white, outsíde. <br> COUNTRY PRODUCE |  |
| Butter-Receipts are showing a slightincrease, but the demand is still active |  |
|  |  |
| for all lines, and prices are well main- tained. | cars. The offerings were fair, and the demand good. |
|  |  |
|  |  |
|  |  |
|  |  |
| do, large |  |
| changed at 12c. for large, and | mand being dull, at 10c. to 11c. per ib. for large, and 12e. to 13c. for mmall. |
|  | - |
| Eggs-Are coming forward more freely, | time past. ${ }_{\text {Reocipts of oats have been }}$ |
|  |  |
| Montreal dealers are offering firm prices at country points, and in order to getthe eggs, local dealers are compelled to |  |
|  | last weok, and are now ubout 126. bushele |
| keep their prices up. <br> Potatoes-Easy in |  |
| changed. Ontario, $60 \mathrm{c} .$, on track, and 65 c . to 70 c ., out of store; eastern, 60 c . to 65 c ., on track, and 70 c . to 75 c ., out | Chicago. ${ }_{\text {Chicago-(athle-iood to prime steers, }}$ |
|  |  |
|  | Chicago,-Cattle-Good to prime steers,$\$ 6$ to $\$ 6.75$ poor to medium, $\$ 4.60$ to$\$ 5.75$; stockers and feeders, $\$ 2.50$ to |
|  |  |
|  |  |
| ed Hay-Is oftering treely, and |  |
|  |  |
| 1 timothy, in car lots, on track here, and <br> $\$ 7$ for mixed and clover. |  |
|  | to choice, mixed, $\$ 4.50 \quad 10 \quad \$ 5.50$; native lambs, $\$ 4.50$ to $\$ 7.35$ <br> lambs, $\$ 4.50$ to $\$ 7.35$. The following are the highest prices |
|  |  |
|  | The following are the highest prices aid on the Chicnoo manket during the Waid on the Chirngo market during the |
| Prices of beef have advanced in every Swift \& Company, speaking for the | $\text { April } 12,$ |
|  |  |
|  |  |
| prod |  |
| pricee for choice cattle. This simply |  |
|  |  |
| in prices would be about $\$ 2$ on the one haif of chotce cattlo that can ho used tor |  |
|  |  |
| food purposes. The range cattle producer is the mastor of the situation. |  |

## Buffalo.

British Cattle Markets.


## THECROWN BANK OF CANADA

## Caplatal Authorizod,

 Head Offlce, Toronto, Ont. Edvarard Gurney,EvIERY DESCRIPTION OF BANKING BUSINESS TRANSACTED. All opotiol attontion given to nocounts of Cheose Fhotories, Drovers and Grain Dealerre, and agarmerir Notorn iniooontod. Farmore' Sales Notes colleoted and advanoes made Muidipal and School sootion accountis reoelved on favorable terme.
SAVIMGS BANK DEPARTMENT Depooft of pwenty oen to and apwards rooed ved, and in

G. de C. O'GRADY, General Manager

## GET A HOME

In the Great Canadian West. THE CANADIAN-BRITISH LAND CO., LTD.



 Hosd omoo: BT, THOMAs, ONT. Head onfoe In the Territorles at Reging JOHN CAMPBELL, ESQ, GEORGE K. CROCKER, ESQ.

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| Province of Guathee | Cover: soap-vinegar; mill feeds |
|  |  |
| Class ... ... | as of clover for |
|  | Sir Wm. Dawson's books: inap- |
| The First Lay , | petence in sheep-caked udder ; oats |
|  |  |



## Life, Literature

and Education.


The Reading of Books.

## 'I have no time for reading." Ex-

 cuse for this there may be during work to se done from when there isworly morning until the last of the daylight, and that comes of physical weariness. At the same time, it is a query if the
farmer, as well as most other men improves all the moments which he might easily spend in reading. It
is a good thing to remember that ge as good as a rest, or, as one might put it, Ther are moments at noon, at night, and
on Sundays, which most of us can find without much hunting, and which we might well spend, to pleasure and profit, in reading. numbers of books in order to be a
cultured man, and yet some reading is absolutely necessary. The farmer
who reads is very easily told, in who reads is very easing from the
hoth manner and speech, fre great One who never reads. The great
thing necessary, when time is o nectessily limited, is that one read all need apply themselves to one
class of books; the kind that appeals to you may not, in all prob
atrility, appeal to me, but there may ,e the nugget of gold in your seled Van Dyke has said, "Doubtless ther regions of literature-not a solitary and a terrible chance that we may
not happen to buy the righ, lotall the rocks and placers in all th kravel-beds." At the same time, in order to be sure of the gold. one
must see to it that one applies one' self only to the best of Because wo like novels, there is no reas 1 n why
you should read Bertha M. Clay, And ast aside David Copperfield or, Van
ity Fair. Read the best of tha which interests you, and branch The
into other lines as you qo. The
more particular, you are, the more more particular, you are, the more
finelv-developed will your taste be-



Kvan Kuberts. A few months ago the world had Hever heard of Evan Roberts, noll ties of the times. He is a tall racefuily built, musical, thoughtful looking young man of twenty-six years, the son of a welsh miner of being characterized by religious simplicity and zeal. Though a nominal Christian, it was not until the aggressive work of an ene the inspiration came to him, after prolonged "c communion with the Unhis village, which he did. This was last Novemier. Since then the fiery cross of revival has spread to some 40,000 , turning lives of sin and
selfishness to lives of righteousness and self-sacrifice. As to the fruits, long-standing debts have been paid, the saloons and music-halls have closed for want of patronage, quite common for magistrates
ceive white gloves, there being criminal cases to try at the courts,
and the Bible Socicty was at times unable to supply the demand for copics of "The Word of Life." The revival spirit has spread to England, hough inve," to spak outside of his native Wales. Humble and selpeffacing, he is one of those who, seeing visions and dreaming dreams, ual influences in Great Britain.


Biss Carmon.
A very few lines of poetry ar usually sufficient for the revelation prose writer may write lines, pages even, which are essentially common-
place, but the true poet-who added that sixth sense for grasping the beauty and essence of things which of all to the poct, has also the
gift of being alle to express his thought in words beautiful, melodious beyond of necessity, show his
power in almost every line. works of few of our poets, perhaps, fouch nore strongly than thuse of Bliss Carman. Music of language, delicacy of description. originality of thought and expression, are all what He knows just what a never overloads with that wealth of detail which
sotuetimes renders the writings, even sometimes renders the writings, even
of some of the tuasters, ralher, 'odious reading. An impressionist among the poets, he d.shes in a terspaces he leaves for the imaginao Bliss Carman was horn at the beautiful city of rrederictun. N. B.,
in April, 1861, and was educated at the University of New Brunswick, Laking the B. A. digrie and the
Alumni gold medal in 1881, and the M. $\Lambda$. degree in 1884 . Afterward he spent some time in private study, and realing at Edlinburgh and Har-
vard. Since then his life has been given up to literary work: in truth, it would seem that literature runs in the blood of his race, for he is a
cousin of the brilliunt Roverts family, of which Charles (3. D. is the most widely-known nember. Mr Carman has be rin assocluled in edidependent, the Cosmopolitan, and the Atlantic Monthly, but his name will live in the collections of poem and valuable prose "orks which he
has given to the public. Among the best known of these are, "Low Tide Grand Pre :, A Book of Lyrless,' A Book of the Unseen," More Songe from Vagabondia," "By the Aure Ian Wall, and Other Eleyies,"
lian Friendship of Art," and "Kinship "Friendship of Art," and "sayed an ambitious piece of poetical work in reproducing the lost poens of
Sappho, the "queen of song " of Lesbos, who loved and wrote about six centuries before Christ. Mr. Carman has collected the few fragment and has built upon them a supar structure such as he conceives her elaborated work might have worn As Chas. (t. D. Roberts, in his in "Perhaps the most perillous and the most alluring venture in the whole field of poetry is that which Mr. Car man has undertaken in attempting poems of Sappho, of which fragments have survived. .day were to set himsculptor of to-day were trainal craftmanship, and studious famili, rity with the spirit, technicue and at-
mosphere of his subject. to roztore mosphere statues of Polyclitus or Praxiteles, of which he had but a broknn arm, a foot, a knee, a finver, Mon
which to build." Mr. Carmın which to build." .. his Mr. Marmst in New York City
The following stanzas from "L Low plaintiveness remind one som what o Jean Ingelow's beauti'ul '/ Dividod, may serve as some writing : Was it a year, or hives ago, Ve took the grasses in our hands ad caught the summer flying low
Over the waviug meadow Innds,
And held it there betmeen our hands

And that we took into our hands Spirlt of life or subtler thing-
Breathed on us there, and loosed tho of death, and taught us, whispering. The secret of some wonder-thing Then all your face grew light, and s The evening faltered, and I I deeme; That time was ripe, and years done
Their wheeling underneath the sun.
o all desire and all regret And fear and memory, were naught The keen delight our hands had caught Torrow and yesterday were naugh
The might has fallen. and the tide Now and again comes drifting hom
Across these aching barrens wide, across these aching barrens wide,
A sigh like driven wind or foam,
In

Open the Door of Your Heart Open the door of your heart, my lad When the world is full of unnumbere In the beautiful dawn of youth. Casting aside all things that
Saying to wrong " Depart ", Saying to wrong "Depart" "
ro the voices of hope that are calling you
Open the door of your heart

Open the door of your heart, my lass, To the things that shall abide;
ro the holy thoughts that lift your sou Like the stars at eventide. In the realms of song aind art Are yours, if you'll only give thom room. open the door of Open the door of your heart, my triend
Hoedless Heedless of class or creed,
When you hear the cry of a brother' The sob of a child in need, the shining heaven th
bends bends
You need no map or chart,
But only the love the Master
But only the love the Master
Open the door of your hea

## A Poem for Reciters

MRS. LOFTY AND
So do I;
She has dapple greys to draw 1
With my blue-eyed laughing baby
Trundling by,
hide his face
ce lest she should see Her fine husband has white fingers Mine has not ;
He could give his bride a palace Mine a cot;
Hers comes home beneath the starlight Hers comes home
Ne'er cares she ; Mine comes in the purple twiligh Kisses me,
And prays that He Who turns life. sands
Will hold his loved ones in His hands Mrs. Lofty has her jewels, So have I;
She wears hers upon her bosom Inside I;
By-and-bye;
shall bear my treasure with me 1 Bhall bear
When I die,
F
For I have love and she has gold-
She counts her weath-mine can
She has those who love her station
None have I;
But I've one true heart beside me
Glad am I;
No, not I:
God will weigh it in His balance
By-and-by
By-and-bye;
nd the diference define,
(20)

No man ever sank under the burdon
It day. is when to-morrow's burd ndded to the burden of to-dny that th weight is more the
Genrge Macdonald

## Joseph Haydn.

## Born at Robrav, April 1,1732, Dhed at Vienna, May 31,1809

 Haydn, coming from a purely pea ant stock, represents the entrance $i$ to cultivated music of the spirit the people's song. A son of thepeople he was, with the homely hind people he was, with the homely sind-
ness of his peasant forefathers. When he grew famous, and counted amon he frew farous, and counted among
his pupils such men as Mozart and
Beethoven, on all sides could be Beethoven, on all sides could be
heard the quaint, affectionate aame heard the quaint, afirectionate name
given him by high and low, the name by which musicians, still' speak
him, ". Papa Haydn." $\underset{\substack{\text { him. "Papa Haydn. } \\ \text { His father, Matthia }}}{ }$
whellwright, Mis mother had leeen a serving-maid, His his home was of the
humblest kind, and he and his oleven humblest kind, and he and his eleven
brothers and sisters were brought up brothers and
with very few pleasures or luxuries. Wiis forther was somenthing of a music-
Hiover, singing a very good tenor, and
lover lover, singing a very good tenor, and
playing by ear upon the harp. Ho playing by ear upon the harp. Ho
taught his children to look upon taught has he dhid, in the tight of a poy
masic rest. He worked hard during
and and rest. He worked hard during
the day, but whon evening came the the day, but when evening came the
harp would be brought, and the
whole family would sing together whole family would sing together
until it was time for bed. A cousin, who was choirmaster in
neighboring village, took the boy a neighboring village, took the boy
Joseph into his choir, and later, at the age of eight, he went to Vienua as a chorister in the chapel of St.
Stephen. After a childhood and
 at the age of twenty-nine, engage


Joseph ${ }^{\text {M }}$ Haydn.
as specal musicion to Prince Est. hazy of Hungary, a position he cccupied for thirty years, composing
constantly, and living a simple, na
tural life tural life. He was unfortunate his marriage, his wife not being a
all congenial with him in her tastes all congenial with him in her tastes
After, the death of his benefact s, he he
went to London, where he was iap went to London, where he was in.
turously received by the musim
$\qquad$ H1s most famous compositions ere
Oratorios.-" The Creation," an She Scasons.". Military," I. Th
Symponies.-"
Clock," "Surprise," "La Chasse," and scores of others, many of the nameless.
Maydn was the quariette writing, and the well
known Austrian national hymn known Austrian national hymn known as the "Emperor's Hymn, Was one of his own favorite com-
positions.-7 Adapted from " Masters in Music." and his little brother had been
Tommy and his little brother had been
playing together most peacofully for some Playing together most peacefully for some
time when suddenly the baty gave a howl, followed by a series of shricks.
The mother rushed in, and, while soothing the crying child, sought to find out
what had hurt him. her cross examination for a time, but
finally admitted that he was guilty.
" What did to asked.

[^0]

Victory.
He went
quer.-Rev. quer.- - Rev. vi.: 2.
$\mathrm{In}_{\mathrm{n}}$ all these
. conquerors through Him that loved us.Rom. Vili.: 37 .
He will swallow up death in victory.Ga. xxv.: 8 .
Glory be to JESUS ! tell what He hath done;
Sound aloud the praises of the Holy Sound
One !

$$
\begin{aligned}
& \text { One! } \\
& \text { Bind, oh bind the laurels round the } \\
& \text { Victor's brow: }
\end{aligned}
$$

He Who conquered for us conquers in
The three text Bived a man
past, a present and a future victory.
hrist has conquered, we are bound to
tory will be complete in the day when tory will be complete in the day when
the "' trumpet shall sound, and the dead shall be raised." At Christmas time, angels were the glad messengers who
brought to men the good tidings of God's great gift of Peace, but the brightness of Christmas pales before the great glory of Easter, when the Victor Himself stands
in the midst of His friends and offers them in the midst of His friends and offers them
His own Peace-won through fiercest His own Peace-won through fiercest
strife. At Christmas, we celebrate the
coming of the Deliverer, but at the glad coming of the Deliverer, but at the glad
Easter season we share in His victory.
But, as Canaan was a " gift" to the Rut, as Canaan was a " gift" to the
Israelites, and yet had to be won by
hard fighting, so we must fight, if we hard fighting, so we must fight, if we
wish to live victoriously; although, at
the same time, our thanks are due to the same time, our thanks are due to
God, who "giveth " us the victory
through our Lord Jesus Christ. This is through our Lord Jesus Christ. This is
one of the many paradoxes of life which
it is impossible to explain, but we
should hardly value a victory which cost should hardly value a victory which cost
us nothing.
"In all these things we are more than
conquerors. through Him that loved us," conquerors through Him that loved us,"
says St. Paul and this list of "these
things ." shows that the victory is no
easy one - ". tribulation, distress, perse-
cution,. famine, nakedness, peril or
sword." We are called to go forth in sword." We are called to go forth in
the ranks of the conquering army, following the Victor, Who is called Faithful
and True, the KING OF KINGS AND
IORD LORD OF LORDS, Who " went forth conquering and to conquer.". And how
did He conquer? How did He show
that Ho wnen King in ronlity ae well ne

 terrible day of battle: of His daring ac-
ceptance of the high priest's challenge eptance of the high priest's challenge,
of His kind encourageruent of the un happy Pilate, of the sterm silence before
Herod, the royal pardon extended to tho soldiers, the quiet acceptance of homage from the dying thief, the thoughtfulness
for others in apparent forgetfulness of personal agony. Then let us turn the
light on our own lives and see if we are really conquerors all day and every day.
We have no persecution. famine or great
tribulation perhnos but the childrom aro ribulation, perhaps, but the children are no foe was in sight."
(ractious or troutlusome we to fight withheadache or a bad cold, meals are not is old, yet ever new, the message that
ready just on time, the weather deesn't our King has passed through death, and sult us, we can't have our own way is still the living One, alive for ever
 querors in such trifling matters as these, ly in His steps. but every soldier of Christ is pledged to Iife was never intended to he a hum-
 he a thunder-cloud, to speak crusely, order that we may have a chance to be
to show temper hy hasty. impatient victors. Soldiers may think their daily





APRHL 20, 1908
article which stated that even such an apparently solid substance as a bar o
steel is made up of an infinite number of distinct atoms, which never actually
touch each other.
I don't know mueh touch each other. I don't know muen
about science, but I ${ }^{\text {d }}$ know that the only bit of our own lives we can actually grasp is the present moment whic
slips by even while we speak of it. The
The slips by even while we spar not ours to
past and the future are not past and the great question is: Wha are we making of the present? The bes preparation for holy dying is holy living
St. Paul knew that victory is rather St. Paul knew that victory is rather matcer of so his triumphant contem
emotionalism, so plation of the victory over sin, deat
and the grave ends with the necessary and the grave
climax-so quiet, yet so grand-" There climax-so quate,
fore, my beloved brethren, be ye stead
fast, unmovable, always abounding in the work of the Lord."

So he dies for his faith. That is
fine-
More than most of us do.
But say can you add to that. line
But say, can you add to lived for it too?
That he live As a martyr to truth. Did his life do the same in the past From the days is easy to die. Men have died For a wish or a whim-
From bravado or passion or pride. Was it harder for him? But to live-every day
All the truth that he dreamt.
while his friends met his conduct with While his friends met his conduct w
doubt, Was it thus that he plodded ahead Never turning aside?
Then we'll talk of the life that he led. Never mind how he died." норе.

My Mother
She gave the best years of her life
With joy for me, with loving hear And robbed he
Unstintingly

For me with willing hands she toiled or me she prayed when headstrong youth
Would have its way.

Her gentle arms, my cradle once Are weary now;
And time has set the seal of care
Upon her brow.
And, though no other eyes than mine read my history in the linee if her dear face.

And, 'mid His gems, who showers gifts As shining sands,
count her days as pearls that fall

The Value of Example

## ve your child truthful, be truth

$\qquad$ To have him kind to others, be yourself kind to others.
Prescribe healthful amusements and so far as you can take part in them. name is to be chosen before great riches Teach him that riches are to
despised, but should never be got by doing harm to others ; that when ecquired should be treated as a trust, not as hoard.
To have him honest, present to him in To have him honest, presen of honesty
yoursclf a living example of
The chief part of a child's knowledge comes through observation. Acts mean

My Share.

## thave no lands, I have no gold Fame's way my footsteps mits

 Fame's way my footsteps mildsBut T've my baby girl to hold,
Miy little lad to kiss. Miy little lad to kiss.
To helpful heights I may not reach, Or tides of error stay, to tach
Be mine the sweeter task, pray. Their unstained lips to pray.
-Cora A. Matson Dolson, in Goa -Cora A.
Houmekeeping.

THE FARMER'S ADVOCATE


An Easter Baby
$\qquad$ Day- was just rising one bright Easter Dhe air- was so balmy you'd think it was
Dat $\stackrel{\text { May- }}{\stackrel{\text { May }}{\text { Trixy }} \text { rushed out of the door }}$
$\qquad$ o play with the storks which her dear
uncle Ned From Egypt had brought, and a story Made her wond

The babies are brought by the storks," said the book,
and Trixy determined she'd carefully look For the baby her pets might have So she harnessed them up and drove them he stable and barn, then they suddenly found
The thing that she eagerly sought. nest,
And the storks chipped the shell-you can see all the rest,
How Trixy bent ofer to hear
How Trixy bent over to hear
The strange little sounds that the baby inside
as making-he chuckled and laughed tll he cried-
$\qquad$ ground
gre the the tom to the He popped up his head with never a
sound, sound,
But Trixy was wild with joy.
What a darling you are claimed, with a kiss, are she ex-
real, live baby-boy
cousin dorothy


Some Everyday Wonders I daresay you would be delighted if. arn a wonderful Easter egg with a bab Inside. Of course that is impossible, e copt in a fairy tare do you but per aps, if you had your eyes open to notice hem, you would find just as wonderfl things happening all around you. The a the country have no need to envy Alice her Adventures in Wonderland, they live in wonderland all the time Perhaps you think the Easter eggs that are dyed red, blue or yellow are more wonderful than the common white ones In the henhouse, but really the common ones-like most common tho if a tound box were milled with the youk and white of an egg, and sealed up so that nothing could possibly get in from the outside, and then a
airy were to touch it with her magic Pairy were to touch it with her magle
wand and a little downy chicken should wand and a start to chip its way out, you suddenly
would think you had got right into a fairy tale. Is it any less wonderful be
cause the stufl insido the egg takes three cause the stuff insido the egg takes Where
weeks to turn into a chicken? did the lively little chap come from?
Where did he get his flufy black feathers, Where did he get his fufly black
or his soft yellow down, his bright eyes,
atrong littie legas and chirpy woice? None
of those things were in the egg, the white box was closely sealed, so thoy could they are ! Isn't that real magic ? It s not less but more wonderful, because millions of chickens chip their way out of eggs every year. Each common egg,
that shows no sign of life and yet con tains within itself the mysterious power of changing into a llving creature, should remind us of ${ }^{\text {t }}$
the Resurrection
A long time ago a German countess said she did not believe that people who
had died would ever rise again, so she had died would ever rise again, so she
ordered that her grave should be cavered with heavy slabs of stone fastened together with iron clamps. Her diroctions
were carried out, and these words were were carried out, and these words wer
cut in the stone: purchased to all eternity, must never be opened." But it was utter folly to defy the power of God, or to think that any
stone could stand in His way. As though to show how easily He could open the tomb that had been so tightly closed, He
did not send a great earthquake, but did not send a great earthquake, but
only a very tiny messenger to do the only a
work. It was only a little seed, and no one would have thought such a weak and helpless thing could lift great stones out
of its way. But "God hath chosen the of its way. But corld to confound the things which are mighty," and He often does great things with very small instru ments, so that everyonen can see the power is not in them but in Himself.
This soed was allve, and a little shoot came out of it which no stone could keep down. It grew on steadilly, forcing its
way up towards the light, until it tore way up towards the light, untli it tore
the fron clamps apart, and oven pushed the iron clamps apart, and even pushed
nside the heavy granite slab. People aside the heavy granite siad .

so quickly opened the tomb a Soollish woman thought could be safely closed.
Life is stronger than death, and there are resurrections everywhere in the spring-but I promised to show you some
everyday wonders. What would you think if a fairy should wave her wand towards an orchard, which was atanding bare and leafless in its winter clothes,
and instantly every tree should be beautiful in a new dress of green leaves garlanded with pink and white blossoms. Well, isn't that what you see every year It is done slowly instead of sudenly soms-you might cut the branches open and you would not fnd one-then another day comes and each tree looks as though it had been dipped in a bath of pop-
corn, tipped with pink, like the popcorn, tipped with pink, like the pop-
corn balls. Isn't that Hike magic? Where did all the dainty bloswoms come from? They were not anywhere, and
now they are here !
But that is not now they are here 1 But that is not
all. The fairy might wave her wand again and all the soft little flowers would fall to pieces, and the trees would be covered with big, juicy, red or yellow
apples. Where did they come from They also were not anywhere in the world, and yet there they are 1 you for get to wander at the transiormation, be
cause it is done slowly and you are so used to it, but is it any less marvellous on that account? Those apples were
as oranges are tied to a Christmas tree; they were not in existence before. Ca These, and many other wonders, go on right before our eyes, and yet we are not sharp-sighted enough to see the transformation. No one ever saw á
blossom change into an apple, or an ogg change into a chicken.
Who ever saw the earliest rose First open her sweet breast? Or, when the summer sun goes down,
The first soft star in evening's crown The first soft star in evening
Light up her gleaming crest ?"
I once saw a moth come out alive from the grave in which it had been buried winter. It had boen a dead-looking day it began to squirm and wrigglo, and I found that it was not only alive, but had changed into a very different-looking creature from the crawling thing thut had been buried so many months. I saw it
slowly unfold its unused wings and fly lowly unfold its unused wings and the
way, but no human eye had seen the ow change from a worm, that could only creep slowly on the ground, to ${ }^{2}$ a ir. Now, perhaps, you will understand why the two commonest Easter symbole re the ogg and the chrysalis. They are
oth pictures of the Resurrection, and so also is every seed that is buried in the ground to docay and rise agaln, Think
of the big plants and beautiful flowers the big plants and beautiful flowers that are packer invisibly into those thy pen the seeds, but you could not soe the wonderful thlings that aro inside, and no man on earth is clever enough to unpack
them-but put them into the grave, and God does the rest.
One day the world is brown and whebby; then, a fow days later, it hass put on a retty green dress, studded with In what nvisisble wardrobes have the green robes been packed all winter, and where aro the
ewel boxee from which the dandelions lowel boxes from which thic dandolions
have been shakon out so thickly? You would not have found them if you had
dug in the ground. The sudden change dug in the ground. The sudden change
from shabbiness to beauty makes one

think of Cinderella, when the falry godthink of Cinderella, when the gairy god-
mother turned her ragg into a beautiful ball-dress. How do the big cornstalks and cobs of corn come out of a Mitio
grain? The less seems to always congrain? The less beoms to always con-
tain the greater, and the wonders of the tain the greater, and the wonders of the
fairy books are nothing to the wonderi of God's great Book of Nature. The more you read in the more pages you and there are yot to be studiod, and
is the most interesting book that eve was written.
Sling a song of days of apring,
Sottly fall the showers,
Forty thousand ralndrope bi
Huds a-modding as you go
Emerald plumes a-dancing
Here and there a blrd
Ien't it entrancing ?
Len't it entrancing?
Through the mould, right bravely
Flaunts the golden crocus-cup,
The hyacinch stands gravely Every bud its message brings
Peeping through the bowers. Sing a song of days of sprin
Welcome to the flowers." $\begin{aligned} & \text { Cousin in rothy }\end{aligned}$
See that man? Well, sir, he landed this country with bare feet and now a regular centipodo.

592


The Farmers ${ }^{\text {Priend }}$ CLARK'S

Corned Beef
Perfectly cooked. Deliciously seasoned. No bone, no waste
Saves time when work is pressing. Saves going are bad.
A delicious and nour ishing dish.
It is Canadian Beefpacked in Canada.

Ask for it. ${ }_{\text {B.2-05 }}$

(固)


What We Can't Do Gixat Superfluous Hair



Whiciole mezrma and all bkin trobbee


|  | HECLA <br> HEATING ENBURES |
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|  | IN COLD WEATHER |
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|  |  |  |
| It, our iree blorkje teols why, Ask for |  |
|  |  |

I WOULD LIKE EVERY WOMAN



THE FARMER'S ADVOCATE.


Simple Clothing for Children.
While a great many people are con-
verted to the truth that there cannot be good health without a certain amount of fresh air and exercise, a
number of them believe that they
neme themselves are too busy to spare
time for it. There are always many things to to done that make if the family comprises little chil-
irent, the inending und makine, etc for them constitutes a never-ending
task. In making children's cloth. ing, why not simplify everything as
much as possible?
mat is right to mak a dothild think
wear. it is right it make a child wear
something it feels to be ugly and
distikes, or is ashaned to he sech
in, but simple clothing for children is really the prettiest, and is becoming
mare and more fashionalue Fe. Frils
and trinming do not make the chill happler, healthier, or prettier, Little
children are pretiy cnouch in their chidren are pretty enough in therr
clildishness, mad the plaine their
clothes are the betterer they look, as
 clean and dry-they do not need any-
thing more. Litule dresses can lie.
made of scersudle
 time and energy, whick will do the
children much good, if applied to the
care giving her a chance to adinist the
reall. important thinks with hutter
jullument




APRIL 20, 1905

## Plump,

## Rosy <br> Children

are children that get the right food to eat - whole some, nutritious food-easily digested food.

Mooney's Perfection Cream Sodas are splendid food for grow. ing children. Made of Canada's finest wheat, cream and
 Separators


TOBACCO HABIT

LIQUOR HABIT



THE FARMER'S ADVOCATE


## The Farmer's Wife

Dear Dame Durden,-This is my first
letter to the Ingle Nook. The position of the fllinois woman is in some manne ike my own, so that I naturally longed write and say what I thought about the country life. I must confess myself
to being a born lotus eater. I could to being a borry lotus eater. I could
dream all day over a painting by Sandro dream all day over a painting by Sandro
Botticelli, and spend hours going over in
my memory a sentimental nocturne by my memory a sentineunstal nocture by
Chopin; or, in fact, I could continue Chopin; or, in fact, I could coutinue
musing indefinitely over all the beautiful beloved things in which there is no
money. But Canada is a country for money. But Canada is a country Whr
workers, and not for dreamers. When
we choose the strenuous, eventful life of we choose the strenuous, eventful life of
a country where there are no "records ", reams be our recreation, and choose
an
an the noble deeds, which may possib
be no
round.
I am s
I am sorry for the Illinots woman from
my heart, because I too have to feed pigs
and calves, and toil round the farm. I I
am building up a splendid poultry. busi-

chores, white the
houses, chopping trees, clearing lank, and
doing all the terribly hard work that
even the most determined woman could
even the most determined woman could
not hope to accomplish. Fortunately for
mee
clown."I I belliove that is I were to sug-
gest that I should spend the rest of my
days in a hammock, my husband would

## Our Badge Again.

## Dear Dame Durden, -As thls is such s

 oo call on my friends, I shall go, like Cousin Dorothy, on an " Imaginary walk"; I have been much interested in the "town girl comparison" chat which theNookers have been having. It think we Nookers have been having. I think we
should have more pity on our town sisshould have more pity on our town sig-
ters, and invite them during thelr sum-
mer vacation to mer vacation to visit our country homes
and enjoy our pleasures of freedom unand enjoy our pleasures of freedom un-
known to them.
of course, $I$ say the known to them. Of course, I say the
town girls exercise more taste than the majority of country girls. Why Be-
cause they havo their clothes to match-
not not a supply of all colors, like the coun-
try girls. I deem this the only feature the country girl may be jealoue of. I
shall now turn my attention to something more beneficial, I hope-a few hints from
my experience.
A very fine soup is made from the water which pork, not too salty, has been smiled in. Cut turnips and potatoes in
squares, also a couple of onions. Put into the pork water; add half cup of
rice, previously boiled, and allow to boil one hour.
A very good stove blacking is made by putting one "dome " and one teaspoon-
ful of " tiger stove polish ", into a bowl, with water to cover. Let remain over
night. Mix thoroughy in the morning. and apply to a warm, not hot, stove. Brush well, and a beautiful satin polish
will be produced more cheaply than by will be produced more cheaply than by
using all box pollsh. by applying a very ilttle boiled oil on a cloth. This system will not dirty the
hands. It is best to let dry a ilitle,
then start a gentle fire. This will not then start a gentle fire. This will no
cause any smoke as the varnish does.
Stale soda buns dipped in a cutp Stale soda buns dipped in a culp of
cold water, then put in a hot oven for 20 minutes, are as nice as
made. To be eaten hot. Where has our badge system gone ? Has
it heen entirely forgotten by all? How it been entirely forgotten by all ? How
I should like to meet one of the ". Chatters" at Guelph next June, and how shall I know her in a crowd? I hope Dame Durden, you shall decide on one be-
MICAMAC. Yore then.
Victoria Co., Ont.
As Micamac will probably femember, left the question of the Ingle Nook badge about half a dozen wrote about it, I concluded the suggestion did not command enough $\begin{aligned} & \text { popular attention to carry it } \\ & \text { through. } \\ & \text { However, if it is really the }\end{aligned}$ wish of the Ingle Nook members to have a badge arranged for before June, we shall be quite ready to come to a deci-
sion. When the questlon was mooted before, somisone suggested that a small marguerite (ox-eye daisy) made of white
and yellow ribbon, would be very pretty. Personally, I was quite taken with the
idea. If that were decided upon, each member could easily make one for her-
self, and so all might be supplied with very hittle trouble at any one quarter.
What do you say I I should think many pleasant acquaintances might be formed
in this way at Guelph, or at other farmers conventions held in any pert of the

## Household Notes.

Dear Dame Durden, $-\mathbf{1}$ longed to come
in and talk with you, and seefing your words. I have a few household a notes,
which are as follows: which are as follows: A red-hot iron
will soften old putty so that it can be easily removed. A good remedy for
chilblains is to apply turpentine to the affected parts. Windows may be kept
free from ice and polished by rubbing the glass with a sponge dipped in alcohol.
When sweeping carpets, dip the broom
into which has been put table salt-about
handful. It will make the carpet lool
spililed on an an undinted foor, pour on
colld water to harrien it, and then you






 starch when makind tut sait the the
 has tallen onst the carpot, sprinkte salt

 CIrcle cake One egsis one up of uygar two cupa of four onothire cup of buter
 of soda, and fanvor with lemon teompoi Cram sponge Calo - Beat up two ogge
 houri one teapponful of ream of tartart,




 Npplestrg, ont $\qquad$ deed, girlle.

## The Coming Man

## palr of very chubby leg Encased in scarlet hose

Wilh of little stubby boot
Cut as alt, a little coar
Cut as a mother can-
And lo 1 before us strides in state
The future's "coming man.
His eyes, perchance, will read the star
And search their unknown was Perchance the human heart and powl Will open to their gaze ;
Perchance their keen and flashmg glance Will be a nation's light-
Those eyes that now are wistful bent
On some " blg fellow's " ldite.
That brow where mighty thought will In solemn, secret state
Where fierce ambition's restless strength
Shall war with future fate ;
Now treasures shall outpour-
Tis knit now with a troubled doubt
and two make four.
Those lipe that in the coming years
Whose whippered words on lightning dash From world to world may reach ; That, stornly grave, may speak command, Are coaxing now for gingerbreed With all a baby's soul f
Those hande-those 11 ttle busy handsThose hands whose only miseion seems Tho pull all order downWho knows what hidden strength may
Within their future grasp, Though now 'tis but a toffy stlick
In sturdy hold they clasp! Ah, blessings on those little hands
Whose work is yet undone i And bleselnge on those little feet Whose race is yet unrun. And blessings on the little brain
That has not learned to plan That has not learned to plan.
Whate er the future holds in store God bless the "coming man

A helpful hand and a word of cheer A gift of bread from your own repast Hold hope, keep husy, be never glum,
Make each day better than was the





 Bin



 ant bin
 B





$\mathrm{B}^{\text {BRemp }}$









 phite wo phat hitate








 Patin






 THE Notional star



 $\mathrm{W}^{\mathrm{W}}$ Hip






The LEAVENWORTH CASE By A. K. Green Barred Rocks -We offer egky for hatching


CHAPTER XXV

I. doubt it it will be so very din Where is the man Cook? ", "He is below,", returned I, ", he and
I brought them with me., "That was wise
ave them up."
ave them up
Stepping to $\qquad$ In question them, sald 1 , coming back.
In another moment the spruce Q and
 the tater in not drecty at min, min,
the deceased Mr. Stebblus' hired man, is it ? Well, yout. look as though you
sould tell the truth.
out to do thatly calculate to do thing, Ir usually calcuiate to When without any further introduction.
What was the first name of the lady

 mansodoentu 1







 and



 aider



Southcott Suit Co., 120 Ronivivisi


Portrait of the Late Bishop Baldwin

The London Priating \& Llithographing Co. he that you have no remembrance Weren't you called upon to sign the cer${ }^{\text {uicaer }}$ Yes, sir ; but I am most ashamed to say it, 1 was in a sort of maze and did$n^{\prime}$ 't hear wich, and only remember that
it was a Mr. Clavering she was martiad it was a Mrr. Clavering she was married
to, and that someone called someone else EIner, or something like that. I wish I hadn't been so stupld, sir, if it would
bave done you any good." Tell us about the signing of the cer. lificate," said Mr. Gryce. Mr. Steobins asked me to put my name down in a certain place on a piece of
paper he pushed toward me, and I put it down there, that is all."' You wrote yours? ""
No,
Atterward Mr. Stebins turned toward the other lady who now
came forward, and asked ber

 she threw by her vell, and I only saw
Mr. Stebbins staring at her as ano
as stooped, with a kind of wonder on his
face, which made me think that ahe might have ben ${ }^{6}$ something worth looking at too, but I didn't seo her myself. -. Well, what happened then
I don't know, gir. $I$ went stumbling
out of the room, and didn't see any.W Where were you when the ladies went
 zould never forget the look of had
tace if I lived a hundred years."
" In the garden, gir ; I had gone back
 .. You saw. them, then; was the gentle-
man with them ? ? and the whitest hand, and smiled in a all. No, shey that was the queer part of it so did he and in a few minutes Mr .
Stebbins came out where Stebbins came out where I was and told
 Who knew you the ond ong obot in the the hoube
thene nyy in
No, sir ; Miss , Stebbins had gone to I had by this time some faint impression of what Mr. Oryce's susplctons were,
and in arranging the pictures had placed one, that of Eleanore-and an exquisite Yortrait it was too-on the mantelpiece,
and the other, which was an uncommonIy ine photograph of Mary, in plain view
on the desk. But Mr. Cook's back was an yet toward that part of the room,
and thking advantage of the moment, I
roturnd returned and asked him tif that was all he
hatd to tell us about this matter. ". Then, ${ }^{\text {Thr }}$. said Mr. Gryce, with a glanee
it
$Q$, ${ }^{\text {isn't }}$ there something here you an give Mr. Cook in payment for his
tory? Look around, will you ? $Q$ nodded and moved toward the cup-
worard in the wall which was at the side
 and pausing before the mantelpiece, had put there, gave aleande wrunt of
saisfaction or pleasure, low
looked anain and walked away, I felt my heart
leap up into my throat, and moved by
What impulse of dread or hope I cannot say, turned my back, when suddenny 1 I
heard him
clamation
cont
followed to a startiod ex. Why, here she is, this is her, sirs,", and
(urning around, sew him urrying to
Ward hands.
I do bot know that I was greatly sur-
 and an unsetling of old conclusions that
were very confusing, but surprised? No.
 "This the pledy who we. was married to
Mr. Clinvering, my good man?





APRIL 20, 1008
but this one-Would you mind telling me
her name, gita what you say is true, her name it
Mra Claverlngs" " Yes, that was his
". name." "and a very lovely lady," saitd Mr. Gryce. "Morris, haven't you found
anything yet ?"
 ward glases and was in no mood for liguor. I think he was struck by re morse. for, loking from the picture
Qand from $Q$ to the plcture, he sald : Q,. If If Ihave done this lady wrong by my talk, ' 'IP never forgive myself. Yo to told
me I would be hepping her to get her Hg." oh, I haven't decefved you," broke in $Q$ in his short, sharp way. $\because$ Ask that gentleman there, if we are not all inter--
ested in Mras. Claverthg getting her due." mood to reply. I longed to have the man dismissed, that I might inquire the
reason of this great complacency which I now da

Mr. Cook needn't be concerned," re
marked Mr. Gryce. "If he will take a
slass of warm drink, to fortily hime for glass of warm drink, to fortiy him the
his walk, I think he may go to the
lodgings Mr. Morris has provided for him, without foar,"
Left alone with Mr. Gryce, I must have aflot alone with Mr. Gryce, mase of the contused emotions
allich filled my breast to become apwhich filled my breast to become ap
parent on my countemance, for arter a cew min ". This discovery rather upsets you,
doesn't it? Well, it don't me. I exdoesn't it ? Well, it dont it." conclusions from what I have done," I returned, "or you would see that this
discovery alters the complexion of the discovery aiters
Whole airsair."
" It does not alter the truth.
What is the truth ?"
Then," said he, "to my notion the complexion of things has altered, but
very much for the better. As long as very much for the betcer.
Fleanore was belleved to be the wife, her
action in this matter was accounted for action in this matter was accounted for,
but the tragedy itself was not. Why should Eleanore or Eleanore's husband
wish the death of wish the death of a man whose bounty
was believed by them to cease with his Was believed by them to cease with his
But with Mary, the heiress, proved the wiff l -I tell you, Mr. Ray
pond, it all hangs together now. Yo must never, in reckoning up an affair o
murder like this, forget who it is that murder like this, forget who it is that
most profits by the deceased man's
death., "But Eleanore's silence, how will yo
account for that? I can imagine a wo accound oring herself to the shielding
man devet husband from the consequences,., crime, but a cousin's husband, never."
"Then you still think Mr. Clavering
 You don't-you can't suspect Eleanore her cousin out of a dificulty by taking
the life of their mutyal benefactor?" No," said Mr. Gryce-" no, I Io not
think
Eleanore Leavenworth had any hand in the business."
"Then who-" 1 began and stopped, lost in the dreadful vista that was open-
ing before me. ". Whro ? Why, who but the one whose
past deceit and present necessity demanded his death as a relief? who, but man-deceiving goddess-" I leaped to my feet. "Do not men-
tion the name," cried 1 i " "you are tion the name," cried ${ }^{\text {a }}$ you
wrong but do ono speak the name."
".. Excue me." said he, " but it have to be spoken many times, and we
may as well begin - Mary Leavenworth, or, if you like it better, Mrs. Henry
Clavering." CHAPTER XXVI.
Mr "I see that I have pulled down an
avalanche of doubts about your ears," exclaimed my companion from the height
of his calm superiority. "You never of his calm superiority. "You never
thought of this possibility, then, yourself?" I only know one thing, and that is, that
I will never belleve your suspicions true That, however much Mary may have been benefited by her uncle's death, she never

THE FARMER'S ADVOCATE

Unselfish Mother: Selfish Child.
Che are all the time im. Reving our own characters at the exarr to them? We are so aggressively
nnelligh that we almost compel them to rat
grow up exating. The old prover
about unselich mothers making selfs) aniaren bas more truth than a Ceach children to be it more important fully helpful than any book-lesson handicratt, going. It may be well wait on one's husband sometimes when
ts very tired, but why find the children
 mornin? Why give up the scarce dainty ou ned yoursell whong himg more than yourself by bo doong, and yet we all of
ys do similar things every day. $I$ inave
and small admiration for the woman wio makes a door-mat oflidrsen, and she will and that they have far less reapect for
her than if she taught them to consider her comfort, at least equally with their
 anything than do it oneselff
peinsfaris. peninstating enough to do the former will
not only reap her own no her child incalculable good y mother used to say that she did not care how orten we all had to turn out of our
own bedrooms, Own bedroums, bag and baggage, a
hall añ hour's notice to some unexpected guests; ;he she said it wa such good training for us.
When her boys we school, though they were to boarding she made them foel responanible for pack ing thefir own trunks. Unknown to them
ghe
woild she would, of course, al ways repack them
altorimidra; but the habit of metho then arderlitioses thus early acquired has re mained with them through ille. Surely her daughters in-law will arise and call
her bletesed. - -

The English Language.
$\qquad$ But thes, plural of ox should be oxen, not
oxe t Then one fowl is goose, but two a called goese ; mouse should never be ou may 'find a lone mouse, or a whole you may find
nut the oplural
But
$\qquad$ the plural of man is always called
men, phy pen ? the plural of pan be called But ${ }^{\text {kive, }}$ sut a cow if repeated is never called kine,
And the plural or ow is ow, not vine,
And if 1 speak of a toot and you thow And me yive you a boot, would a palt And I I Eive you a boot, would a par
be called beto th, the whole aet ard
It one is a tooth, It one is a tooth, the whole wer and Why shourdn't the plural of booth be II called beoth? singular's this and the plural is It these the plural of kise be nicknamed Sheuta ?
Then one ? may be that and three would be Yet hoot in a plural would never be hose And the plural of cat is cats, not cose,
We speak of a brother and alloo of We spetbren, of be may say mother we never say methren ;
Then masculine pronouns are he, his and Then masculine pronouns are he,
him,
But imagine the femine, she, shis and

## But imagine the femine, she, sins shim.

So the Enghish, I think, you all win
agree
ans the most worful language you ever
s.
did neos.
dose

William Dean Howells has adopted the rule that all applicants for matish astisfactory proof that they have read his books. A notil recently wrote to the great novelist for his autograph. By return mail came a single typewritten line: "Have you
bought my last book? " To which the bought my last book
young woman replicd,

## GANADA PERMANENT

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.00000
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 Naty


we will tell you howgth and width of room, and time to put on Metal Oeilings. Try one of our Metal Ceilings and you will wish that you had known more about them long ago. Ask for
our free catalogue, and lool up our advertisements in former numbers.
The Metal Shingle \& Siding Co., Ltd.
preston, ontario.
 SHORTHORN BULLS

Bred from Valley Farm Herd. Well.grown, and well worth the money. Quick sale for one or four. ©
WM. HENDRIE, Jro, Valley Farm HAMILTON, ONT




## DEERING and McCORMICK HAY TEDDERS

The old way is to let the sun cure the hay, with good chances of thoroughly bleaching it, and the possibility of not being able to stack it for some days after it has been cut. The new way is to use a tedder, which turns the hay thoroughly and lets the air dry it without bleaching. Hay which has been cut in the morning can be turned with a tedder and put under cover before nightfall; besides, hay which has been air-cured is better than hay which has been sun-dried and bleached in the old way.

THE DEERING TEDDER
mis mation remarkably
 light of druft. Frame is made of hility of twisting or sagging. ivigh wheels with channel tires and widely-staggered spokes. High wheels west spring steel. A coil spring prevents them Forks of the best spring steel. strike an obstruction, and the main frame tilts up to relieve undue pressure.

## THE McCORMICK TEDDER

, faris in means of a gear orele hence the full riving power of both wheels is imparted to each fork. The oil spring attached to each fork takes up most of the impact cessant jars and severe strain.

International Harvester Company of America
General Offices, Chicago, U. S. A.
CANADIAN BRANCHES:

In answering the advertisement on this page, kindly mention the FARMER'S ADVOCATE.

VERNON
The Hub of the Fertile Okanagan, the Land of Fruit and Sunshine, the Garden Spot of the Pacific Province.

The Charming Home of Plenty and Prosperity.

The Okanagan has become so widely
and genorally known in Manitoba and the and generally known in Manitoba and the
Northwest that it is scarcely necessary to preface a desecription of 1 ite princtpal
city with more than the briefest refer ence to the fertile district which is at tracting so much attention as a land un-
surpassed in the fertility of ita goil the geniality of its climate, of range of its resources, and the charm of its acenery. comprises that produchat the Okanagan
interlor section of the

 125 milles to the foot of Lake Okanagan, and that ith cllmatic, scenic and sooll condittons are such as to fully mert the
tutle bestowed upon it, both by partial reesddents and by disinterested vi vistors. that of the Garden of rritish Columbla: Nor should the eye of cuppiclon be coat
upon the superlatives which are so treely used in any description of the OKanagan, for we assure our readers that there is tar lese likelihood of our being led into
exaggeration than there is of our exaggeration than there is of our falling
to convey an adequate impression of the octonvey an adequate mpression of the
natural beauties and almost ideal conditions of this favored district.
 ts total length must be in the neighbor-
 ber of smaller valleyb-or-ahoots, as it it
were, of the main depresion-and also comprises a cartaln proportion of higher and, not so well suited to horticultural
and agricultural purposes.
The lands on the agricultural purposes. The lands on
tillstdes are of rich, sandy loam, while the zoil in the valleys is, in the main, alluvial in character. While there
are occasional abrupt breaks in the penare ocaasional abrupt breaks in the gen-
eral surface, the country is tor the most part, gently undulating, and there 18 a
sufficient variety from valley to plain and aumbent variety from valley to plain and
tableland to give a very pleasing aspect o the whole landscape. The hillsidides are, for the most part, thickly wooded,
the principal timber trees being the the principal timber treas being the
Douglas ant and larch on the higher parts, and yellow pine on the lower levels, intermixed in all caseas with a great
deal of birch and poplar, whilo along river bottome, birch popiar, willow alow uch m. The valleys are, in general.
 ural , tate, the ranges are well adapted doedford zustenance to catle, and, in-
deazing was the first industry
dof the arry settlers, and is only now being displaced by the more productive ${ }^{\text {tr }}$,
growing and agricultural industries.

Beautifully VERNON
 shich radiate eecellent ronds leading
the northern towns and satllements ne northern towns and setlements,
Coldstream and white $V_{\text {all }}$
Vess, to Kelow
of the south, and to Grand Pratrie and
Kamloopa. Nature has endowed Vernon Kamloops. Nature has endowed Vernon
whin as treal a site as is to be found in
the the interior of British Columbia, and
especially fited it to hold the mot in especially int ited it to hold tho moot im im-
portant postion among the fourthing portant position among the flouriah
towns and cities of the okanagan.
Occupying a broad atat between hifher
portions, which serve admirably as locaportions, which serve admirably as loca-
Ulons for handsome residences, Vernon mercial advantages, with a charming
 and in a repilion of poollen and lakes,
Scercely two miles away is situated tho beautilul Long Lake, whose beachea aro overed in the summer time with camping parties, comprising wholo famililess, who
resort for, a fow weeks every year to thia tree life in the open, and also parties of young men who approciate the pleasures ot camp life sufficlently to walk or cycle Bething, boating, fashing and attendant amusements are some of the attractions Ine ered by thts veritable summer resort
of the Vernon poople.
swan Lake, some two miles distant in another direction, does not offer the seme faclilites for camping and bathing, as its banks are
low and awampy; but it forms a very Iow and swampy; but forme a very
attractive spot on the landscape, and is a. resort of the huntsmen lin search of Uucks and gease.
Well wooded, nat reees adorning its strreets, and orchards In flourishng condition on every hand, Vernon in summer forms a picture, the
claim of which is increased by the many claim of which is increased by the many
fre residences set in well-kept grounds, with flowers in profusion everywhere.


Threshing Scene.
Past year a block of land across the
creek to the south has been latd out ind town lots and disposed of very rapidily This section, frequently referred to as the Young Addition, may be partly held tor
speculative purposes,
but several have
 there in the near future, and it is likely
that a number of residences will soon be put up there.
Severnth Street is a part of the city
is situated upon a terrace to the east- that has been greatly improved during ward, at the base of which a level tract the thast few months, and the indicationg
of land forms an admirable location for now the pricipal business avenue. parallee and Intersecting streets, cosy Vernon is well supplied with modern
dwelling houses, in neat and attractive conveniences, possesesing a water mind
 Which is increased by the quantitles of the interior. The reservolr has a capac
beautiful flowers that are produced with ity of 250,000 gallons, while a pressure


 the lower town, is one of the prettiest arranged dor and wwll soon be tha opera-
parts of the city, and fully fustifes the tion, and it is mosillo


## Money-making Land.

taste of those who have melected it as a tance connections may so
site for their residences. In its adoles- Armstrong and Enderby


Vernon

APRIL 20, 1905
but it elso possesses handsome school buildings, a city hall, and commodioun
churches, $\begin{gathered}\text { belonging to the Roman } \\ \text { Arglican, Presbyterian }\end{gathered}$ and Cathoodist denominations.
methor The Vernon Jubilee Hospital, a most
ment institution, in charge of a staf efficient institution, in charge of a stan
of capable and experienced nurbet. of capable and erfere the sick may rb
furnishes a refuge where furnishes a skilled attlention and prope
ceive the side
core which is frequently so essential t care which is frequently so essential
recovery. It is a large, roomy bulding, recovery. It is a large, roomy buld
pleasantly situated on the outskirts of the pleasantiy sossesses three public wards, as
city, and posser of private ones, while well as a number of private ones, while Memorial Wing, added to the main build ing in 1901, serves as a maternity ward The building is heated with hot water and a complete furnishes necessary facilities The Nurses' Home, a most comfortable little cottage, has just been buit oxcllent accommodation for the nurses. The hospital receives the usual grant from the Government, of ifty cents a day y the payment of the patients themby the payment olve, when possible, and by public subscription. The nursing staff consists f five, of whom some are probationers, or nurses not only to the needs of the city. but also to the surrounding dis trict, and its efficiency is a source
pride and comfort to the whole Valley schools.
One of the frst considerations con
prenting thoughtful parents fome in a new country is that of educational advantages, and no single inducement of greater importance can be outered providing his children with at least the providing his chidren with at least uca-
oundations of a good thorough education. However rough, uncultured and il-
literate a man may be, he appreciates literate a man may be, he appreciates
the advantages conferred by good trainChe advantages confrred sacrifice a great
ing, and he is willing to sa
do secure to his offspring those deal to secure to his ofspring those
privileges which have been denied to privileges which have been denied to
himself.
In this respect. however, himself' In it is with regard to soil and climatic
conditions. Not only does it possess an conditions. Not only does it possess an
efficient and fully-equipped public school efficient and fully-equipped pubire school,
offering, free of charge, the benefits of an excellent common school course, bu
these advantages are further supple these advantages
mented
by the further supple
the mented by the recenty-starced for college matriculation at a very modera cost.
The public school building is a hand some brick structure situated
skirts - of the city in spacious grounds which afford plenty of room for recreatio purposes. There are at present
partments, in charge of capable and ex perienced teachers, and nearly two hur dred pupils. The attendance has recent
ly increased very rapldly, owing to th ly increased very rapddly, owing the East
great influx of population from the great influx of popuration inded with a
The institution is provided necessary equipments, and ranks with the
best of its kind in the Province. best of its kind in the Province.
The high school prepares for colleges and the B. C. certificates, and is open to all who have passed the entrance exam re ation. It has already accomphishod an
sults that are highly credtable, an suth the Increase of equipment and facilicies that will follow growth in the num ber of pupils attending will take a high
rank among the best high schools of the interior. In the surrounding districts there are
also good miscellaneous schools so disalso good miscellaneous schootler of the
tributed as to deprive no setler tributed as to deprive no settler of t
privileges of education for his children. fraternal orders. The various fraternal order: are very
much in evidence in the city, the Masons, nuch in evdence in the city, the Masons,
Oddellows, Woodmen of the World, oresters, Knights of Pythias and
rangemen all having large memberships Orangemen all having large members
and well-organized and active lodges
climate
()ne of the most valuable assets of Kernon and surrounding district is un-
Coubtedly its delightiul climate, which doubtedly its delightiul climate, which turms one of the principal attractions,
and frequently has a great deal to do with the decision of the visitor to locate
in our midst. It is free from the exin our midst. It is free from the ex-
cessive humidity of the coast districts, cessive humidity of bee coas dry as the
and yet is far from being as dras bunch-grass country. The apring
true opens early and almosi immediatoly

## THE FARMER'S ADVOCATE.

Generally speaking, the rainsqll is very
Ught, and although trrigation is not an ilght, and although irrigation is not an proper faclitities is in a very much safer
position, compared with his less fortunate position, compared with in vew of the possibility of a particularly dry year. climatic conditions A better idea of the climatic conditions will be gained from the appended me-
teorological records at the Coldstream Ranch Station, taken from the last yearbook of British Columbia, and from re-
ports of the Department of Agriculture: ports of the Department of Agric
Monthly Days of Snowfall
 Monthly Days of Rainfall. No. of Inches of Rainfall Each Month $\begin{array}{ccccccc}\text { April } & \text { May } & \text { June } & \text { July } & \text { August } & \text { Sept } \\ 0.42 & 0.55 & 1.41 & 0.50 & 0.12 & 1.25\end{array}$


A Pleasing Vista.


Scene near Kelowne


McKonzie \& Martin at Long Lake.

According to the same records, the highest annual temperature occurs 1
July, and is 98 deg. to 96 deg; the low July, and is 98 deg. to 96 deg, the low
est is 13 deg. below zero. The number of inches of rainfall is 11 . The snowfall is light in the immediate vicinity of
Vernon, and while it varies in different Vernon, and while it varies in difieren
localities, enough generally falls to maintain good sleighing for several weeks during the winter months.
the large holdings.
In the past, a great drawback to the
development of the district and its expansion in population and importance pansion in population and importance
has been the fact that large areas of land, secured by the early settlers, were
held by the individual owners, who refused to sell, and thus, to a great extent, kept the small rancher from gaining a foothold in the valley. During the past eighteen months, howDuring the past eighteen months, how
ever, conditions in this regard have undergone a great change. Realizing the value of their hitherto largely unpro-
ductive estates, the large holders have ductive estates, the large holders have
broken up and resurveyed their properties, placing the subdivided areas on the market, and disposing of them to
prospective settlers, who are coming to prospective settlers, who are coming to
the country in continually' Increasting the country in continually increasting
numbers to plant orchards and make homes for themselves where they can
live in the enfoyment of an almost perlive in the enjoyment of an almost per-
fect climate, and under pleasanter conditions than the rigorous life of the Cerritortes. There is a large and grow-
ing class of well-to-do settlera in Manioba and the Northwest who have stood he severe winters of the Eastern climate or a sufficient number of years to acthe same time such a distaste, aro the the
tor
old that they are now casting about for cold that they are now casting about for
some district where they may have an opportunity of making a fair living un-
der more pleasing climatic conditions $\begin{array}{lll}\text { der } & \text { more pleasing } & \text { climatic conditions } \\ \text { than } & \text { they have been } \\ \text { obliged to put up } \\ \text { with in the past. }\end{array}$ with in the past. This olass is very
largely represented among those who
have located in the Okanagan during the have located in the Okanagan during the
past year, and it is this class who are
most likely to feel thoroughly satisfed with their change of residence. For the Okanagan is emphatically the district for
the man of some 1 title means, not for
the big capitaliat, the big capitalist, but for him who har,
at least, the wherewithal to tide over the at least, the wherewithal to tide over the
Orst few years, while his orchards are maturing:
The influx of settlers daring the pa year, resulting from the subdivision o the big holdings, and the adoption of energetio and pushing real estate, has
vertising and
been surprisłng, and has resulted in a been surprisfng, and has resulted in
great increase in the total cultivated great of the valley. Visitors have joined the residents of the valley in out spoken enthusiasm over the horticultura and agricultural possibilitites of the ok-
anagan. Pamphlets and fllustrated de scriptions of the valley have been free ly distributed, and the general enbringing the district. prominently before the people of the Northwest, and In inducing a tide of immigration, that is build-
ing up the country with unparalleled rapidity. Although the prices of land have gone up, so as to make buyting for purely speculative purposes scarcely a
proftable thing, there proftable thing, there seems to bo no
decrease in the number of purchases by those who wish to make their homes in the district, and every train brings new andseekers, to locate themselves, or per-
haps, to "spy out the lund " for friends In the East.
the ten-acre rance
The Okanagan is emphatically a disrict for intensive farming, and the Eastern rancher, who, perhaps, has barely
managed to make both ends meet from managed to make both ends meet from mense area of wheat land in the North west, is irequently astonimied by the small rult-grower, whose little ten-acre plot nets him profts far in advance of what might have been expected. Of course, these
are the results after the orchards come into bearing, for it is as well to realize
that a living cannot be assured from :a that a living cannot be assured from :a
ranch of small area right from the be ranch
ginning.
the Coldstream ranch. No description of Vernon would be
complete without a mentlon of the Coldcomplete without a
stream Ranch, Lord Aberdench's splendid
British Columbia eatata, whith' he British Columbia eatate, which han been
the greateat benoat to the velley, both the greatert of the prinelpel fectory eaning
attention to the many advantages it that much grain is produced in the vicin- promise good returns in the future, also as a sort of unofficial experiment station, where a great deal of necessary nformation as to the selection of proper varieties, the peculiar climatic and soil
conditions of the district, the husbandry of the troes, the pfcktug and marketting of the fruit, and other features of the rult industry requiring special knowledge, has been gathered by the slow and
requently unprofitable process of experience, and are now placed at the disposal ence, and are now plat the small grower.
It is probably unnecessary to say that Coldstream Ranch affords one of the
most striking and convincing examples most etriking and convincing examples
which the country possesses of the capabilities of the Okanagan soil and dimate when utllized under an intelligent
and systematic method of cultivation. and systematic method of cultivation,
and has demonstrated, emphatically, that the district is pre eminently suited fo the production of frult of the finest qual-
ity and the most delicious flavor. The products of the ranch have won a reputation for themselves, and have probably spoken more convincingly to many of our
readors than we could possibly do adors than we could possibly do. The ranch comprises some 13,000 acre under cultivation, and the remainder more or less timbered. Of the cultivated portion, the most interesting to the vis-
itor will probably be the orchard of 200 acres, of which over 100 acres are now producing. This is being steadily increased year by year, and it is not un
likely that, at no very distant period, the Coldstream Ranch may develop into on of the largest fruit farms in the Domin ion. Apples are the chief product etc., are also grown. As to output may be said that in 1963 there wer shipped from this orchard 505 tons, and in adaiuon, 188 cons were purchased fro along with the Coldstream fruit. The Northwest Territories and Manitoba pro vide the prlncipal markets, though pack
ages bearing the well-known brand of thi ranch have found their way to Dawa City, and may even be mot with in Aus tralla. A small nursery is being on
larged to contain 200,000 stock trees the various varietion which experienco has shown to be best adapted to this Another important feature of the samc There are now in cultivation under hops about 100 acres, from which were shipped last year 552 bales, containing in al
118,486 pounds. The area of the ho 118,486 pounds. The area of the hop
fielus, like that of the orchard, is bein yearly incroused, and the faclitities for curing and preparing them for market are
of the beat. of the best.
 voted to grain in 1908 , and yltelded Eon
tons. Of roots, 888 tons were raliged and potatoes, 574 tons. Most of th reachad by a system of Irrigation, thoug to a large extent. it is hardly necessar to employ this during an ordinary sea $\stackrel{\text { son. }}{\text { The }}$ The live stock includes a herd of abou shipped each year to Alberta as year-
lings, where they are grazed and fat-
tened. tened. The average crop of calves 1
fully 75 per cent., which speaks well for tho oxcellont breeding conditions existing in this district. A few shoep and Angor
goats are kept, and about 300 hoga goats are kept, and about 300 hogs ar
sold each year, realizling about $\$ 3,000$ About 25 year , raalizing about $\$ 3,0000$
men are employed in winter and in summer this number is increased - 50 or 60.

Chis estate were placed on the market and are now occupied on the market, prosperous
farmers and fruit-growers. larmers and fruit-growers. Another sub-
division has since been made division has since been made, and a
imited number of twenty-acre plots on Long Lake are ofiered for sale. The purchaser, it he desires, may make arangements with the ranch to have this ot planted with fruit trees, under expert
nanagement, and cared for till it reaches producing age
nfighboring ranches,
Vernon owes much of its importance to the rich and extensive agricultural dis-
trict which surrounds it, and upon hich it depends very largely for its sup-
ort. So much has been said about the okanagan as a fruit-growing district,
ity, and that mixed farming is also while there are a hundred or more tree prosecuted to a considerable extent. already bearing. The stock kept consists
Some details of work of the large of about 60 head of Shorthorn cattle ranches of the neighborhood may correct and a small herd of pure-bred Jerseys,
any false impression in this regara about 150 pi gs, and some fity pure-bred any false impression in this regara
which may be prevalent. Which may be prevalent.
Thinington Ranch, situated in the
White Valleg, ahout ten miles from Ver The Lanington Ranch, situated in the
White Valley, ahout ten miles from Ver-
non, consists of about 940 俍 non, consists of about 940 acres of
rich
loammy soil, unequalled in the rich loamy soil, unequalled in the
valley. Four hundred acres under irri.
gation valley. Four hundred acres under irrl
gation are put down to hay and clover
while there is while there is ahout 90 acres of meadow
land. From 250 to 300 acres a land. From 250 to 300 acres are de
voted
to wheat-growing, from which about 250 to 300 tons of grain are
harvested yearly.
A young orchard of harvested yearly, A young orchard of
1,oos apple trees, and some 150 plum
and


Round-up of O'Keefe Cattle.

A. Birnie's Ranch. 500 Feet Above Vernon.

B. X. Orchard, Vernon.
with characteristic D'Keefe has about 800 herg energy
0 head $\frac{M r}{M_{r}}$
cattle and some eighty horses. It might be mentioned that some 200 acres of the
O'Keefe property, on both O'Keefe property, on both sides of the orchard, under the management Vernon-Okanagan Land Company, and has fund a ready sale at good prioes. joins Mr. O'Keefe's, comprising abput 8,000 acres, of which about 1,000 is in wheat, and 250 meadow land. Fight hundred head
ranges

FRUIT-GROWING
Fruit-growing is unquestionably the great industry of the Okanagan, and it are opening up for the fruit-grower in the Kootenays, the Northwest, and the actors in giving impetus to the settlement and development of the valley.
Okanagan fruit is establishing a reputation for itself which will stand it in good stead in the future, and which insures a steady demand for the train-
loads that will be shipped out of the loads that will be shipped out of the
valley in the future for every carload that is now produced. The apples compare very favorably in flavor, size and
ppearance with the choicest products Ontario and Nova Scotia, and possess besides, a superiority in firmness and asting quality which admirably adapt
hem to supply a distant market, whenver the nearer ones may fall. The success mot with by Okanagan frult at the Royal Horticultural Society Exhibition the English dealers to the products this valley, and thoroughly established their reputation as first-class fruit.
The climate of the district is eminently favorable to fruit-production, and pears, plums, prunes, cherries, peaches, hich commands top prices wherever tion are sold. The natural advantages of red and climate are all that can be deired, and the application of care and skill to the buaness of fruit-growing may will requal or excel that of the most
will favored sections. is the total absence of those destructive enemies to the orchard, the codling moth and the San Jose scale.
A fruit-grower's experience. The facts and figures of actual ex-
perience are alway worth very much morience are always worth very much more to the practical seeker for informa tion than any amount of loose generali-
ties, or ". hot air." We cannot do bet-
ter, therefore, to ter, therefore, in our endeavor to pre-
sent Ok onagan
conditions before our our readers, than to quote once more the
much-quoted letter of one of the best known fruit-growers of the Okanagan, $^{\text {whose }}$ whose estimates of costs and possibllitios
are of are of the practical type required. Th
letter is as follows :
The cost of setting out an orchard The cost of setting out an orchard of
apple trees would figure out somewhat as

20 acres, at $\$ 60$ per acre $\ldots \$ 1,20000$
Fencing, Plowing and fixing, at $\$ 5$ per 2000 Trees, set 30 feet apart, 96810000 at 15c. a tree ... ............. 14500 Freight on same, about .......... 2000
Setting out and planting, at
4c. a tree ............................

Total cost ... ...... ............... $\$ 1,70372$ The trees will occupy about one-fifth of
the ground the first year, about one fourth the second and third, about one third the fourth, etc. Leaving out the cost
of working the land between the trees because this should at least be paid for
ber by the crops of roots, potatoes, etc.,
raised upon it, the cost of working the raised -upon it, the cost of working the
land where the trees are will be some what as follows
Cultivating, spraying, pruning, etc.-
First year, First year, at $\$ 10$ an acre ............ $\$ 200$
Second year, $\$ 10$ an acre .......... 200 Third year, \$15 Fouth year, $\$ 20$ an acre 300
400
500
$\qquad$ The above figures are ample for giving
Whorough care to the orchard in every "ay. The land that was used for other
crops-that is, the space between the trees
-might well be worked so as to more than pay for the initial cost of the trees. For instance, in the fourth year, if clover was grown, there would be about 14 acres, which should yield in two cuttings 40 to 45 tons, worth $\$ 300$ or $\$ 400$. The trees should aso prod some
Leaving out, however, what might have been made from root crops, clover, etc. on the unoccupied part of the ground, the total cost of the orchard up to the beginntig of the sixth year would be $\$ 3,302.92$, or $\$ 165$ per acre. After this
the orchard should pay its expenses out of the fruit it produced, and about the ninth year there should be a crop amounting to about seven tons per acre, worth on the trees, perhaps $\$ 150$. An orchard of apple trees may be ex-
pected to have an average crop of 8 to pected
10 tons per acre per year, if properly
per ${ }^{\text {cared }}$ average might be considerably exceeded Some trees in a garden, planted about 14 years ago, which have had good culti-
vation right along, have averaged 600 vation right aldg,
pounds over some years.
To sum up: To plant an orchard is to get into an investment that takes ter years to properly mature. The property
is improving all the time. For about is improving all the time. For abou
the first four or five years, it will be charge and an expense. Afterwards it
should pay expenses. The total money should pay expenses. The total mone
sunk in it might be from $\$ 150$ to $\$ 20$ sunk in it might beturnm from it shoul per acre. The returns from it shoul.
average $\$ 150$ or so above expenses. FRUIT SHIPMENTS. The following figures will give some The following figures whe give some
idea of the arowth and present propor
tions of the fruit industry in the Okana tions of the fruit industry in the Okana-
gan, and also of the relative position o gan, and ald
the vernon district as a fruit producer She ernon hy freight during the month
of Aunust. September and October, I of Aug
pounds

|  | 1903. |  | 1904. |  |
| :---: | :---: | :---: | :---: | :---: |
| From. | A pples | $\begin{aligned} & \text { Other } \\ & \text { Fruits } \end{aligned}$ | Apples | ${ }_{\text {Othu }}^{\text {Oth }}$ |
| Armstrong | 72,000 |  | 70,00 |  |
| Vern $\mathfrak{n}$. | 788,000 | 420,000 | 924,000 |  |
| Kelowna | 764,000 | 250,000 | 746,000 |  |
| Other points | 38,000 | 12,000 | 22,00 |  |
| To'als | 662,000 | 683,000 | 5 |  |

$$
\begin{aligned}
& \text { In addition to the above, large quan- } \\
& \text { tities of peaches, berries, cherries, cur- } \\
& \text { rants and other soft and perishable } \\
& \text { fruits were shipped from the okanagan } \\
& \text { during the past season by express, and } \\
& \text { of such fruits, the shipments mentioned } \\
& \text { in the following table are for the most }
\end{aligned}
$$ part made up

| Arm | Lbs |
| :---: | :---: |
| Armstrong |  |
| Enderby | 3,30 |
| Kelowna | 99,085 |
| Okanagan Landing | 16,325 |
| Peachland | 70,320 |
| Summerland | 70,590 |
| Vernon | 85. |
| Other points on lake | 85,00 |
| Total | 445 |
| tributary districts. |  |
| The central position of the city makes |  |
| it the natural supply and shipping point |  |
|  |  |
| whose progress and devel |  |
| romise to advance with pid strides in the very nant future |  |
|  |  |
| the very noar future. |  |



Orchard near Vernon.


A Pleasing Variety of Landscape.
ing in an eastern drection, we enter the
Coldstream and White Valloys, which, Coldstream and White Valleys, which,
with tributary depression, comprise conwith tributary depression, comprise con-
siderably over 75,000 acres. All along the way, till we reach the Coldstream p
Ranch, are found productive farms, on Ranch, are found productive farms, o
which fruit-growing is the main con which fruit-growing is the main co
sideration, and which comprise some the finest orchards in the district. Everywhere we see evidences of prosperity, and that general aspect of comfort which is
the inevitable accompaniment of success. the inevitable accompaniment of success.
Beyond the Coldstream, not very much fruit-growing is done at present, the district being better suited to the growing
of grain, hay, etc. Indeed, it would, of grain, hay, etc. Indeed, It would,
probably, not be too much to say of the pobably, not be too much to say of the valley, that it is one
meadows $i_{n}$ the interior. This part of the valley is mainly settled by French-
Canadians, many of whom have transCanadians, many of whom have transroperties which yield them first-rato reLumby
Lumby is situated some sixteen milles om vernon, and is a prosperous settleCatholic and Presbyterian-a sawmill and general store. A creamery, to be con-
ducted on a co-operative basis, has just been organized, and, when it is in operation, should do much to encourage dairy-
ing, for which industry, indeed, the district ng, for which industry, indeed, the district
is specially adapted. The creamery is is specially adapted. The creamery is
expected to handle the millk from 300 expected to hancle the milk from 900
cows. The position of Lumby, at the
junction of the roads leading to Sugar junction of the roads leading to Sugar
and Mabel lakes, to the Monastee and Cherry Creek mines, anid to Creigbtion valley, ensures its steady growth, and rallway transportation fachitios would
make it one of the leadtng towns of the make onan. It is estimated that there must be over 40,000 acres of the good
mut and immediately tributary to the town. and there are many indications that in-
creased settlement and consequent
decreased settlement and consequent de
velopment of latent resources will make the region one of the most $\cdot$ flourishing in
the country. the country.
A short distance to the south of Vernon is a large tract of land known as
the ." Commonage." For a number of years the land in this district was considered suitable only as a range for cat-
tie. This unfortunate impression greatly tle. This unfortunate impression reation, retarded the development of the regtion. years that the practical experiment of
enterprising farmers has resulted in the onterprising farmers has resulted in the
development of one of the moet prosper development of one of the most prospor-
ous settlements in the valley.
Mixed farming is now carried on moet succeess-
fully in places formerly given over to ully in places formerly given over to
cattle pasture, and excellent wheat, barley and other grains are grown. One of the main errors in the old idea was tho
opinion that nothing could be done withopinion that nothing could be done with-
out frrigation, which the helght of the out irrigation, which the height of the
Iand rendered prectically imposiblo. It Yand rencered precticany the soll, on doeop.
is found, however, that
low black loam, from two to Ave foot doop,
naturally retains sumbitent moisture, and naturally retains sumbient moisture,
artificial Irrigation
ie, therefore sary. A great deal of hay is also
grown, Arst-class timothy belng produced grown, Arst-clans timothy belng produced
on many of the farma. Datrytng rocetvee on many of the farms. Darrytag rocelveg
some attentlon, much of the butter ubed some
in the clty comfng from this district. Very little has yet been done in fruitgrowing, but several young orchards have
been started, and it is expected that in been started, and It is expected that in
this respect the "Commomage" will not be far behind other parts of the valley. fish and game. To the sportsman, the Okanagan offer attractions which ato not doqualled in many parts of the Dominion, as all
kinds of game, whether big or feathered, fur, fish, deash or fowl, awalt the hunter,
who makes the city a sfarting point for who makes the city a siarting point for excursions that may mountains and valleys of the surrounding mountains and valleys of the surrounding
country. The lakes and streams, which


Coldstream Orchard.
 The market MAREETS. ops and other producc is practically in
Thaustible. The Northwest readily absorb any fruthwest cen supply, cond the large nffux of settlers into that
country, now steadily going in, and like ly to continue for some etime, will further
lincreano the demand. The mining towns Increane the demand. The mining towns
of the Kootenays furnish a more local of the Kootenays furnish a more local
market, and consume our beel, mutton, pork, poultry, tomatoes and early vego-
tables, while large shipments of produce $\begin{array}{ll}\text { are annually made } \\ \text { other coast citles. } & \text { Rancollway ay connection }\end{array}$ with the Boundary country, which is stlll a posefthilty, would open up another great market in the populous minng sec-
tions of the South, with thelr steadly linereasing demand for varlous agricultural products. If, for any reason,
these should fall, wo have England and these should fail, we have England and
Scotlind to fall back on. Recemt experIments of okanagan fruit-growers have demonstrated that apples can very pro-
dtably be shiped to the Old Country Atably be shipped to the Old Country,
while even Australla has recelved fruit from the Okanagan.
retail pricies.

The following figures, giving the retal prices at Vernon of ordinary necessties
will furnthe some idea U "tha . of Hilng
Retail pric Retail pric
necessaries




Branch of Crab-apples.


Branch of Plums.


Hop Yards.

75 c . to $\$ 1.25$ each; $\mathbf{s h i r t s , ~ 4 0 c . ~ t o ~} 75 \mathrm{c}$
each ; boots, $\$ 1.25$ to $\$ 4.00$ per pair each; boots, $\$ 1.25$ to $\$ 4.00$ per pair
walking plows, $\$ 14$ to $\$ 22 ;$ harrows,
$\$ 17$ to $\$ 24$ two-horse farm $\begin{aligned} & \text { wagons, }\end{aligned}$
 $\$ 75$ to $\$ 120$ sleighs, $\$ 30$ to $\$ 35$; cut-
ters, $\$ 35$ to $\$ 50$; buggies, $\$ 70$ to $\$ 100$; democrat wagons, $\$ 90$ to $\$ 110$; double
harness, $\$ 35$ to $\$ 45$; single harness, $\$ 15$ harness, $\$ 85$ to $\$ 45 ;$ single harness, $\$ 15$
to $\$ 24 ;$ saddles, $\$ 10$ to $\$ 40$, btader
twine, 13 kc . per lb. binders, $\$ 160$. lwine,
mowers, $\$ 85$; per
hay rakes, $\$ 30$ to $\$ 35$; mowers, farming tools of all descriptions, about ten per cent. above Mantotoba prices (Aif-
teen per cent. above eastern): dry gods teen per cent. above eastern) ; dry goods
in general, eight per cent. over eastern In general, eight per cent. over eastern
pricess i hardware, ten per cent. over
eastern prices. eastern prices.
MARKET PRICES OF FRUIT.

The following are given as the preval ing prices for fruit: Apples, $\$ 1.00$ t
$\$ 1.25$ per box of 40 lbs . ; pears, $\$ 1.3$
 $\$ 1.60$ to $\$ 1.85$ per box of 16 lbs. ; plums
80 c . to 90 c . per crate of 20 ins.
 strawberries, 10c. per lb. per crate
 crate of 24 lbs.; crab apples, $\$ 1.50$
Her $40-\mathrm{lb}$. box ; tomatoes, 14 cc . per bl . to start, to 6 c .
For further particulars regarding this fertile district, write W. R. Megaw, Ver OUESTIONS AND ANSWERS. QUESTIONS AND ANSWERS.
IIt.-Questions asked by bona-fde subseribers
to the "Marmer, A Avocate" are answered in


 urent veterinary or lepal enguir
be endosed. Miscellaneous.
paying for bull's services. A has a bull. B brings four cows, and
does not pay at time of service. Does does not pay at time of service. Does
A have to advertise bull before he can
collect fees? collect fees?

## Ans.

employee breaking agrebment A hires with B for one year for $\$ 200$. On the first of December and through the
winter draws $\$ 38$. On the 15 th of March, A leaves without any reason,
other than that he can make more other than that he can make more
wages, and $\mathbf{B}$ has to pay at the rate of
$\$ 26$ per month for the eight month Wages, and B has to pay at the rate of
$\$ 26$ per month for the eight months and
onehalf remainin one-half remaining.

1. Can A collect any wages ?
2. Can A collect any wages ?
3. Can B hold A responsible for what
it costs him over the $\$ 200$ to hire a man it costs him over the $\$ 200$ to hire a man
to put in the rest of $\mathrm{A}^{\prime} \mathrm{s}$ time? to put in the rest of A's time?
4. Also can B recover the $\$ 30$ already 3. Also can B recover the $\$ 30$ already
paid, providing both parties have got
property, and are responsible parties ? property, and are responsible parties?
Ont. Ans.-1. He is not legally entitled to 2 and 3. B's remedy is by way of an
actlon against A for damages for the
latter's breach of the agreament. REFUSE BALT FROM PORK FACTORY FOR 1. Is the refuse salt from a pork fac tory as good for the land as the ordi-
nary land salts? 2. Is the alum contained in the said
salt in any way injurions (3) If it is fit for mangel ground,
about what quantity per acre would you about what quantity per acre would you
advise?
C. T. E. advise ?
Wentworth Co., Ont Ans.-1. In many pork-packing fac-
tories saltpetre is used along with the salt, and doubtless a portion of this will be found in the refuse salt. The salt
also contains small quantities of the juices of the meat. The factory salt will
thus be slightly enriched by potash and nitrogen.
5. It is not likely that the amount of alum present will be injurious.
6. Mangels are heavy feeders and take 3. Mangels are heavy feeders and take
large amounts of potash and nitrogen large amounts of potash and nitrogen
from the soil. The salt supplies a very from the soil. The salt supplies a very
small quantity of these when applied on
clay soils, the sodium of the salt tends clay soils, the sodium of the salt tends
to bring potash in the soil into an avallable form. Taking it all together,
salt cannot be said to be a good material to apply on mangel ground. Pure-
ly nitrogenous manures and wood ashes are more likely to give good results.
R. HARCOURT.
Ontario Agricultural Colloge.

When is the

1. When i 2. What state of cultivation ant inty should the soil be in
2. How should they be planted, and
3. Where might I obtain the seed?

Sifincae Co., Ont. J. H. M. Ans.-1, 2 and 3. Sow the seed in April or May in drills two inches deep; thin the plants to four inches, and when strong transplant in deep rich soil, two loose about them in summer the earth during winter with dry litter or leaves or protection. Jerusalem artichokes, an enormously productive variety, valu-
able alike for table and stock-feedi purposes, should be planted in rows, not less than three feet apart. Three bushels variety will plant an 4. Write to the seedsmen advertising in CROP FOR A MUSTARD-INFRETED PIELD I have eight acrea of soa, which Y am on same, but the field is infosted peas wild mustard, and I have been told that vill will not do well with mustard. Will bluestone spray for mustard injure
the pea vine? The field is in good con dition otherwise, and I I would like to
dite sow fall wheat after peas. Ans. - We are advised by Prof. Lo'ch ead, of $\begin{aligned} & \text {. A. C., Guelph, that in their } \\ & \text { experimenta }\end{aligned}$ ere not iniurey found that pea vines ven three per-cent. solution of copper
uulphate. At the same time wo be inclined to advise planting corn on this field, giving thorough frequent cul-
ivation until quite late say till the tivation until quite late, say till the corn
$s$ tasseled. Wheat might be sown in the fall or oats or barley next spring, and spraying depended on to kill any remaining mustard plants then.
PASTURE FOR HoGs.

1. I have an acre of timothy sod I
Intended seeding with barley about three bushels per acre for hog pasture. Could you suggest some mixture that would be
better for constant pasture till hetter for constant pasture till after
harvest? Would it pay me to worl harvest ? Would it pay me to work
manure in on the surface for it?
 Larley for this purpose. Try a mixture
of 1 bushel oats, 1 bushel peas, $\$$ bushel
co common vetch, and 2 hbs. rape per acrel
2. A little fine manure could probably PEARS NOT FRUITING.
I put out two Bartlett pears about
five or six years ago, close against the west end of my barno, close and trained them A year ago, this time, I cut them well hack, and still no sign of flower. The
ground is good, andl they are the only ground is good, and they are the only
trees in that locality that have not done
well well. Can you suggest what the
trouble is ? Ontario Co., Ont
Ans.-From the particulars given, I ca assign only two reasons why your treeed
have not done as well as other trees in the locality. In the first place, a west they could be placed the worst that there would not recelve their full share of sunlight during the forenoon, and would, no doubt, be severely exposed to the hot
sun in the afternoon sun in the afternoon. Then, again, it in vines. It is much better to allow trees to force nature out of itse usual cours Cutting the trees back of its usual course help to induce fruiting; in fact, it might
have the have the opposite effect, as it would
tend more or less brium of the tree, and the result would be that for a year or two they would make extra wood growth to restore the
balance between best to give trees full exposure to sun light, allow them to assume their natura cutting back will not be necessary time.
We have automatic gates.
We have been asked for the naines of may be opened and closed by hever operany render caupply the wagon seat. C

## Vernon-Okanagan Land Company

Orchards Planted and Taken Care of for Non-Residents at Reasonable Rates.

Sole Agents for 800 acres of Choice Fruit Land adjoining City of Vernon, Subdivided in lots from 10 to 100 acres.

## NOTICE

We are sole and exclusive agents for over 5,000 acres of Choice Orchard Land adjoining the City of Vernon and Larkin, in blocks of We are sole and exclusive agents for over 5,000 acres ore years at 6 per cent. We are also planting out over 100 acres in orchard from 5 to 500 acres. Terms: One-Third Cash, balance in three years that is 100 per cent. more than any other agent in Vernon can this spring-30 for ourselves, the balance for our customers, and these facts we have sold over $\$ 200,000$ worth of property in the past ruthfully say. Therefore, we practice what we preacn, and arom the agents for the Town-site of Larkin. We are pleased to show all comer year. these are facts and that our prices are right. Give us a call.


We are sole Agents for everything we advertise. For further particulars apply to

## VERNON-OKANAGAN LAND C0., Vernon, B. C.

Messrs. Christie \& Heubach,
Sole Agents, WINNIPEG

The Tracksell Land \& Investment Co, Sole Agents, REGINA.

# Far Famed Okanagan 

Kelowna, B. C. FRUIT AND AGRICULTURAL LANDS, RESIDENTIAL PROPERTIES FOR SALE IN LOTS OF A SIZE TO SUIT ALL PURCHASERS. PRICES AND TERMS PUTTING IT WITHIN REACH OF ALL. ALSO TOWN LOTS. APPLY TO

## 



# Last Mountain Valley 

## Steamboat Service On the Lake.

S. S. Queen City and S. S. Siken Dale will make regular
trips with freight and pasenenger.

Railway', in Operation This Summer.

The Finest Wheat Land
in North-east Assiniboia.
Average crop for 5 years 25 bushels per acre.

QUESTIONS AND ANSWERS. Veterinary.

Cow had small sores on teat last fall
They appeared like blisters, burst, and left sores and scabs. My other cow contracted the same.
one first, and them the other. This one fing, after calving, the trouble has re-
J. C.
sppeared. appeared.
Ans.-This is cow pox, and is contagious. Milk the sound cow first, and
then be sure to thoroughly wast and disinfect your hands before next milking. Dress the spots three times daily with an
ointment composed of four drams boraci acid; twenty drops carbolic acid, and two ounces vaseline. cow pox.
We have two grade Jerseys with sore teats. Small lumps appear, break and
form scabs, and refuse to heal. T. J. G. Ans.-This is pox, and the virus is easily carried from a diseased to healthy cows, hence the same person should not
milk them. Get an ointment made of milk them. Get an ointment made on
four drams boracic acid, twenty drops carbolic acid and two ounces vaseline. Dress the sore parts three times daily
with this, and milk very carefully. It with this, and milk very carefully.
the teats become very sore, use a tea syphon (a milking tube), carefully dip-
ping it in boiling water each time before using. UNTHRIFTY COW.
Cow in good condition commenced lost her appetite, and gives very little milk. J. B. Ans.-It is probable she ate the after
birth, and in some cases this interferes with health. If she is not too weak, give her a purgative of one pound Ep-
som salts and one ounce ginger. If very weak, do not purge. Give her one dram ach sulphate of iron, gentian, ginger
nd nux vomica three times daily in a
nit pint of cold water as a dimench. In ad
dition give separately four drams hyp sulphite of soda in half a pint of col the was a drench three times daily.
sot eat, you must drench with boiled flaxseed and ale to susta
skin disease and feeding.

1. Mare has lumps the size of peas on
eck and back. They are itchy, and
end and

Cones. scab is picked off, the hair also
Can, $\$ 21$ per tor; corn meal, $\$ 28.30$ per In: shorts, $\$ 22$ per ton; middlings, $\$ 22$ Con : linseed meal, $\$ 33$, what shall
my horses for a gradn ration hurses weigh about 1,350 bradn each. eation
3. How soon after farrowing
He bred? wi. be bred? after farrowing may Alls. - . Pick the scabs off, and dress .. raw surface with butter of antimony Twssing three times daily with carbolic
one part; sweet oil. twenty partic Fred art; sweet oil, twenty parts. and give a gallon of bran extra at
the twice weekly. It is not wise to breed in less than
eight weeks after farrowing. if the ter has nursed, not till after the phgs
weaned. "ter has nu
are weaned.

I am glad to know the bicycle is again coming into favor. It affords an excellent method of overcoming distance and tempts one has added not only to the enjoyment but to the health as well of many people.

HON. JOSEPH B. MOORE,
Chilf Justice, Supreme Court of Michigan, Lansing, Mich.
July, 1904.
Lansing, Mich.
Chief Justice Moore "hits the nail on the head" when he says the bicycle affords an excellent method of overcoming distance. In this
 ce. In this connection it is a matter of sur prise to us tha people living in the country do not use more There is nothing on the list so useful on a farm as th; bicycle

City people have discovered that it is ndispensable to city life. They have also declared in favor of the
Cleveland and

## Rambler

Bicycles. They are the new wheels-made in several models to suit any pocketbookCushion Frame-Morrow Coaster Brake -Sills' Handlebars

CANADA CYCLE \& MOTOR CO., LIMITED, MAKERS WORLD'S BEST BICYCLES, TORONTO.

Miscellaneous.
bEDDING ON CONCRETE FLOOR. Would you, in a warm barn with cehaving stand swept clean? L. C. R. Ans.-Certainly keep them bedded; it
is more necessary on concrete than wooden flooring, the former being colder and more liable to become slippery; besides the bedding absorbs the liquid
manure, and makes the best of fertilizer. Mr. Geo. Miller, of Gregory, Texas, Rormerly of Markham, Ont., in renewing
his subscription to the "Farmer's Advocate." writes: ". South-west Texas is in ane shape; an abundance of green grass
and cattle all in fine shape. This firm,
J. F. Green eco., are shipping a trainJ. F. Green \& Co., are shipping a train-
load of fat steers to market each week; hoad or fat steers to market each ween, have been and will not get them ali out until July. These steers have never seen
any feed, except the natural pastures in any fed, exal state, and are good onough to top the Fort Worth market guite fre quently. They are mostly grade Short-
horns. I am glad to say that the color craze seems to be broken in Texas. A few years ago roans were almost un-
known here, and could scarcely be sold at any price. So seldom were they seen thing that was not all red could not be a pure-bred shorthorn; but so succossful
have been the roans brought to Texas in have been the roans brought
the last five yeurs at the lairs end fatstock shows, that now very few obllect
to that color, and some buyers insist on to that color, and some buyers insist on
having roans. Mr. Green was very suchaving roans. Mr. Green was very suc-
cessful with
Shorthorns in southern $\left\lvert\, \begin{aligned} & \text { Cattle Department at st. Louis World's } \\ & \text { Fair, winning nine first prizes and four }\end{aligned}\right.$ Fair, winning nine first prizee and four
championships, princtipally with Cana-dian-bred cattle. Corn in this section is now knee high, and looks very promising
Cotton not all planted yet.. Cotton not all planted yet

A cheerful face, a contented mind, a
grateful heart, belong to those who give grateful heart, belong to those who give
their confdence and love and loyal their confidence and love and
service to the Lord Jesus Christ. His true disciples take no anxious thought grateful for to-day and are profoundly
is true everday. This is true even when yesterday was full of
trouble, and to-day is a hard trouble, and to-day is a hard problem,
and the morrow promise a storm. Yes
they they give thanks
George Hodges.


In ancering andivertirent on this pare, lindly mention the FARMER'S ADVOCATR.

## ARE YOU TRYINC <br> to decide what is the best MOWER to purchase ：A copy of our Catalogue，describing in detail our No． 8 Mower，would aid you Catalogue，describing in detail our No． 8 Mower，would aid you．We Would like you to ask your neighbor why he uses FROST \＆WOOD Machines in tomers in every corner of the Dominies．We have satisfied cus Machinery，and would be glad to let others know their reaso <br> 

Built Well．Wears Well．Cuts Well．Looks Well， Experience in the building of Mowers has enabled us to turn out a any land．This is equipped with all the latest devices for saving TIME，
labor and trouble

Spring Foot－Lift，Internal Gear，Roller and Ball Bearings，Forged Steel Pitman Connec－ tions，Durable Finish．


Did the Blight Spoil
Your Potatoes Last Year？
7norr The Spramotor


## OUESTIONS AND ANSWERS Miscellaneous．

COW PAILING TO BREED－RINGWORM． 1f We have a young cow，whose last
is about eight months old．She is milking well，and was bred in due season In about three months she came in sea like to knơw if anything can be done in the reason of such trouble with som
cows？The rest of the herd are seldo cows ？The rest of the herd are seldod
taken away more than once．
2．We have ringworm in part of th cattle stable．A calf，seven weeks old
which has never come in contact with said part of stable，has a spot on
one eye．What is the cause of this call having it？What is the best way to rid
hat stock and stable of the disease？ Ans．－- ．The latest theory is that the
usual cause in such cases is bacteria some sort that gives rise to an aci
condition of the secretions of the genera tive organs，which prevents conception Peters，of Nebraska Experiment Station is simple and inexpensive．It is as fol
lows：Take an ordinary two－cent cake of yeast and make it intoo a paste with a
little warm water Allow this in a moderately warm place for 12 h qurs， then add one pint of lukewarm，freshly
boiled water；mix，and allow to another 12 hours．Prepare this mixture
24 haus before the time the cow is ex－
pected to come in heat，and ind pected to come in heat，and inject it in－
to her vagina the moment she is seen to
be in heat．Breed her just when she is Breed her just when she is
going out．of heat．As a rule，a young
bull is preferable in such eoges， bull is preferable in such cases．a young
2．A simple and sure remedy for ring－ 2．A simple and sure remedy for ring－
warm is a mixture of lard and sulphur
well rubbed in and repeated till cured． AGREEMENT WITH sChool teacher．
The trustees of our scheal The trustees of our school section
hired a teacher．The teacher commenced
work and taught for two days．When Work and taught for two days．When
the trustees met the week following the
annual meeting，to appoint treasurer，they met the the achecretary－
When the question of agreement also．
the teace When the question of agreementher came up．
the teacher wanted her salary quarterly，
and as the section had always been in
the hallit
 yet the teacher claims she understood it
was paid quarterly，although nothing was
said about it when her application was
accepted．Now，one of the trustees
claims she
$\qquad$
$\qquad$
$\qquad$

moved．Bropped permanently．Cause re
restored．Sheathing organa and nervous yystem
oine

 Write P．HA BOLND HA Yics，Bumalo．N． Choice Seed Grains－Mandsoheuri barley

 A storekeeper who had been married re
cently was exceedingly tender to his wife in his speech．One day a little boy en－
tered the store，wishing to purchase a the store，wishing to purchase a
coy．My lamb，will you wait on that
boy，please？＂．said the co，please ？＂said the busy proprietor
o his wife．
The boy＇s eyes opened wide wonder．He was soon served wide
nent
vent away，but in $a$ few days later rem urned to have the toy chaygsed．Douter re－
ing that the boy had purchased it at his n you？＂．＂It was the lamb，sir．＂＂．Who

Grain Grinders，
Gas \＆Gasoline Engines，
Tank，
Etc．

Write for
CATALogUES
Goold，Shapley \＆Muir Co．，Ltd， BRANTFORD．CANADA．

## Rothma

actana
百
$\rightarrow$ max
Tanks，
，
Etc．

Ltd．






# 號 

，


## $\$ 25.00{ }^{\text {Buys }}$ Cream Separator All Sent Out on Free Trial


$\mathbf{N T}^{\mathrm{E}}$ ARE selling cream separators on the eame plan as

 can testify. and our prices are so much b. low what agents
charge that they aro evell worth took in intor Further. we.
send each separator out on free trial. and every one not aa is.
 milk-shielf and two cra, bse. one ling one for easy torning for
children, and one hort on or mens nse





 from you ir aiving immense satigfaction. We have eigh
butter more a werk tran we cull the old way br ving the
un cream separator by running the milk through that we had

 separator, and
work porfictly.
Send for ou
Sent occo our separator pamphlet, fully illustrating our maohine, showing p' ctures of the
interior of bowl and other parts; also testimonials, terms, eto. We have sold cream separa
 refer you to sormoparty in
reputation for fair dealing.
WINDSOR SUPPLY COMPANY,
Windsor, Ontario


20-FIERIEIEROME-20





 HAMILTON $\begin{aligned} & \text { and } \\ & 88\end{aligned}$ mAllos Bouth-west
on G. T. R. ONTARIO


IST
STEVENS' OINTMENT



Splint, Spavin, Curb, Ringbone, and all ollaregements in hormeas and catlue
 Erans \& Sens, Lted. Mentreal, Que.
\$7,000 in prizes. ELEVENTH CANADIAN $\$ 7,000$ in prizes. HORSE SHOW





## MAKE MONEY AT HOME <br> by aking subseriptions for the TARMER'B AD

fhe william weld oo., LTD., London, ont

OUESTIONS AND ANSWERS.
THRUSH
Mare has been lame all winter trou
hrush. Give me a speedy cure. hrush. Give me a speedy cure. G. McD.
Ans.-Unfortunately we are not always Ans.- Unfortunately we are not always
able to effect speedy cures, especially in
chronic cases. chronic cases. You will need to have
patience. Pare away all partially de-
tander ratience pare away all dartian fuid
tached hoof, remove all idirt and fore
from the cleft of the frog, and then introduce some calomele, work it down to your knife blade. Do this every day fo
three days. and then every second day three days, and then every second day
until the discharge ceases. In the mean time keep he
clean place
ABortion.
Mare 11 years old has had two foals and was due to foal this year abou
May 20 th. She has been in goor
health and did little work, and been fed May 20th. She has been in goo
health and did little work, and been fe
on hay, straw, oats, boiled barley an
flaxseed in reaconale flaxseed in reasonable quantities. Sh
was let out to water twice daily, and it Was let out to water twice daily, and in
very cold weather she shivered arter
drinking. On March 20th she became drinking an March 20th she becam
uneasy about an hour after drink
ing ing, and she produced a dead foal
What was the cause of abortion? Would it be advisable to breed her again ? J. M. Ans.-This mare was well used, but
would have been better with regular ex would have been better with regular ex-
ercise or light work. Nothing in her
usuage predisposed to abortion. She usuage predisposed to accortent. as slip-
doubtless met with an accide
ping, falling, being kicked, geting fanst
teter ping, falling, being kicked, getting ta.
between a door and its frame, or som
other way unknown to you, and as a re
sult the foctus died, and. sult the foetus died, and, as is usually th
case, was aborted. The immediate cause
abortion was the dend footus, and no abortion was the dead footus, and no
cold water. I certainly would breed her
again, as while she is liable to a recur again, as while she is liable to a recur-
rence of the accident, as any mare is,
she is not liable to acquire the habit she is not liable to arquire the habit
under such circumstances, and it is
probable her next foal will be safely probable her next foal will
carried to full term.
CHRONIC LAMENESS.
Mare got her foot caught in the
manger a year ago. She had trouble in manger a year ago. She had trouble in
entricating it, and has been lame ever
since since. I could not locate the trouble
until recently. I find it is in the flexor
tendons. endons, and they are enparged linnment.
nee to fellok. I applied a linime
and followed up with coon's oil. but the lameness and swelling increased. W. P.
Ans-Chronic thickening of the flexor
tendons, with lameness, is very hard and
tedious to cure You must make up tedious to cure. You must make up
your mind to give her a long rest. It your mind to give her a long rest.
is a pity you did not have her treated
during the winter. Bathe the leg well with cold water several times daily, un-
til the inflammation that has resulted il the inflammation that has resulted
from your liniment has subsided. Then get a blister, composed of 1 drams
each biniodide of mercury and cantharides, and 2 ounces vaseline. Clip well in; tie so that she cannot bite the
parts. In 24 hours. rub well again parts. In 24 hours, rub well again
with the blister, and in 24 hours longer wash off, and apply sweet oil. Turn her
loose in a box stall now, and oil every day. Repeat the blistering every month
and it is probable the lameness will dis and it is probabie the lameness will dis
appear, but a thickening of the tendons appeaprobably remain. Continue to blls
will promer
ter every -

## Miscellaneous.

When to sow millet for hay
or hay?
Ans.-Millet may be sown almost any
as it likes a rather warm soil. For hay
other seeding is completed
hay press
Kindly give instructions for making
hales of about press, or baler to mak
bal 150 lbs ., also cos Ans.-Possibly some reader can supply
the information, but we believe more of the regular presses. secured by of which
of whe

Horse Owners! Use


GASOLINE ENCINES


If you prefer an ENNGINE The "STICKNEY" will tickle you. Safo, economical and very simple. Ontario Wind Engine \& Pump Co.,

## Clydes Hackneys

 By mod notod dite s. Iman


 TT. C . HASSA MRD, MILLBROOK, ONT. Clydesdale Stallions FOR BALE.
 varmus,
S3a DaySure


## TRUMANS' CHAMPION STUD

arad OUR UNBEATE

 Sil
Sil Socond Premloms.
Three Fourth Premium.
 rill sell a hational winnere. A responsible guarantee given with every horse W


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 BUSHNELL, ILL., U.S.A.H. W. TRUMAN,
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LAFAYETTE STOCK FARM
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and the largest importers in the GERMAN COACH. PERCHERON and BELGIAN STALIIONS, have just recelved at their new
sale banras, Berranal Hubue, London
another car of Patcheren
 are imported from France, Belgium
and Germany, and are the lirest
prize winners of 1904. We exhibited
We



MESBRS. U. V. O'DANIEL and R. P. WATERS, managers and ealeamen, London, ont Аоркеe: ل. CROUCH \& SON, LONDON, ONT.
Have just recelved a new for portation of 131 head of high -class Percheron,
125 Percheron, Shire and Hackney .. Stallions and Cares . .

At the Worl's Fair at St. Louis 1 won more Pren ier Chai

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COLUMBUS,
ONTARIO We are now offering for sale the finest prices. Amongst them, Baron Gartley Winner of 1st prize and sweepstakes Stations - Oshawa and Brooklin
G.'T. R. Myrtle, C. P. R. i.T. R. Myrtle, C. P.

JOHN CHAMBERS \& SONS


SHIRE HORSE
Which from lirth aro kept in their natura
condition, veithy r forcing nor overfeeding

them and oblt in the whint wh hilions hat to show
direct from the mer that breend them
No fancy pices, und all deliveren Pree
Liverpocl landiug stage. Correepoudenoe
invited.

OUESTIONS AND ANSWERS. Miscellaneous.


Ans.-There are other measures, such a
smearing the front of the manger with smearing the front of the manger with
aloes or other bitters. One writer advises placing a small revolving roller
above the front of the manger so that
ab also suggests muzzling
better treats tion. We have a large box in which iced
water is kept.
Would a tin box with a tight cover let down into the water
about fifteen inches be a suitable place in
when about fifteen inches be a sultable place in
which to keep butter during warm
weather Weather ?
Ans. If the box Is kept clean, and the Water is reasonably pure and free
from taint, we would expect the butter
to to keep well this way. It would not be
necessary to have the box more than partialy under water.
sORGHUM-OIL FOR HARNESB - COAL OIL 1. Would you recommend growing sugar
cane along with corn. if so what cane along with corn; if so, what propor-
tions to the bushel of corn? Would it
cure and kep.


Lambton Co., Ont.
Ans.-1. Not with corn for husking.

acted

## Tuttle'sElixir atind

Tutte's Family Elixir


 IT SAVES TROUBLE 2 ABSORBINE

 do ara peanat tuean


 s.1.0 Rotile cires fin

THE REPOSITORY'
Burns \& Sheppard, Propriators,


Cor. Slucco and Nelson Sts., Tonoitto.



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PERCHERONS at BARGAIN PRICES



 Norvin or the Rore warcuote Adarem:c


Clydestale Stallion

Clydesdale Stallions and Fillies.
Imported and Canadian-bred. For sale: Two mp. sire and dams, Also SHORTHORN For particulars write to

Canadian-
bred Clydesdales $\begin{aligned} & \text { for sale. } \\ & \text { lion } \\ & \text { risiog }\end{aligned}{ }_{3}^{\text {One stal }}$ years, ne stallion rising 2 years. For further particClydesdales, Rhortharns Pand Corswolds.
 ame. For price and partioulars writo to


The BISSELL DISK HARROW, because built right




Adveriise in the Farmer's Advocate,

QUESTIONS AND ANSWERS. QUESTIONS AND AN
Miscellaneous. STRENGTH OF TOBACCO DECOCTTON FOR STRENGTH OF TOBACCO PECOLANTS.
LICE LIEE WATER FOR PLAN

1. How strang would the tobacco water require to be to kill lice on cattle
2. How much lime is required to one
竍 quart of water to kill little white worms
in earth on house plants?
SUBSCRIBER. Ans.-1. One of our editors says he
used to use a small five-cent chewing used to use a
plug in a gallon of water. Another used
a decoction of stems and leaves, the a decoction of stems aged by color and
strength of which he gaugh
smell. This remedy was abandoned years ago for the commercial dips. Try the
above strength, and, if too weak to kill above strength, and, if too weak to kill
the vermin, repeat with a stronger wash. 2. Take a lump of lime the size of a
teacup, slack it in five gallons of water, teacup, slack it in five gallons of water,
and use till the worms are exterminated.
caponigiva. 1. Can you tell me if caponizing is a
success, and if one who has altered success, and lame pigs and so forth, would
calves, lambs,
be successful in operating on fowl with be successful in operating on fowl with
a caponizer ?
3. If so, whose make would you recom-
W. K. K. mend? so, whose make $\underset{\text { W. K. }}{\text { A. }}$. Caponizing is very successfully
Ans.-1.
practiced by those who have an aptitude practiced by those who have an aptitude
for the work. Though caponizing poul-
Try is quite different from castrating try is quite different from castrating
lambs, pigs or calves, anyone good at lambs, pigs or calves, anyone good at
the latter should, by following carefully
the listruction the instructions accompany the instru-
ment, become proficient in the use of the caponizer.
4. We are told that there is practically
only one make on the Canadian market. 2. We are told that there
only one make on the Canadian market.
It is handled by A. J. Morgan, London, to make factory tent waterproof. How can a factory tent be made
waterproof without making the cotton so very yellow? Someone told me that
they had used boiled linseed oil, but the cotton rotted very quickly. F. F. R.
Ans.-The following, from an old scap-
book, might be tried: .is Sof soap is dissolved in hot water, and a solution
of sulphate of iron (green vitriol or copof sulphate of itron (green vitriol or cop-
peras) is adtled. The sulphuric acid of
the copperas combires with the potash of the soap. and the iron oxide is pre-
cipitated with the fatty acid as insoluble iron soap. This is washed and dried
and mixed with linsecd oil, and the mix ture is applied to the canvas. The moap
prevents the oil from getting hard and cracking, and at the same time ward and
ro effect on tit." Any teade recommend a better method it
to send it in.
aingena culture.
5. Is ginseng proftable?
6. How is it cultivated?
7. To what kind of soil is it adapted ?
8. Where an tuots the obtained, and at
9. Where can roots be obtained, and at
what price? ?
10. How large a patch would you ad-

| vise a beginner to start on, and how |
| :--- |
| $\begin{array}{l}\text { vany rots will it take? } \\ \text { many roor } \\ 6 \text {. Where is it marketed? W. A. C. }\end{array}$ | 6. Where We do nat believe it is likely

Ans.- We . Wo not
to prove satisfactory for the Ontario farmer. The cultivation is too tedious,
and returns too slow.
2 and 3 . It is grown from seed dropped
is. in light furrows or ruts about three
inches apart and one inch deep; plants
now rows. The bed is made ready for fall
sowing. Chose a deep. moist, mellow
loam, with good natural drainage, free loam, with good natural drainage, free
from stones or roots, and preferably facing suth. The best place is said to be

in the woods where trees are tall and | there is no undergrowth to interfere with |
| :--- |
| cultivation. $\begin{array}{l}\text { Two years from time of }\end{array}$ | seding, the plants should bo trans-

planted, and set about four to six inches apart each way. The ground should be kept clean for five years, at the end or
which time the roots should be ready for
market. A complete treatise on ginseng market. A complete treatise on ginseng
culture, by M. (i. Kains. may be ordered culture, by M. (:. Kains, may be ordered
through this office; price, 50 c .
4. Roots may be propagated from wild 4. Roots may be propagated from wild
sedlings growing in the woods, though
better results will be obtained from the better results will be obtained from the
seed of improved stock. See in our
"Want and For Sale." column the adWant and For Sale
vertisement of F. Firatie, High Hate, Ont
5. Do not try more than a bed, $16 \times 3$
and
$\qquad$ 6. Any enterprising druggist should
quote prices on ginseng for you or put

## A School Teacher

Bleeding Piles

## Dr. Chase's Ointment

The folly of risking a surgical operais illustrated in the case of Mr. Lepine, who was cured of bleeding pilcs by the
use surgeon's knife had failed.
Mr. Granite Hill, Muskoka, Ont., writes :-- I am taking the liberty of informing you that for two years 1 suffered from half a cup of blood. Last summer I went to the Ottawa General Hospital to be operated on, and was under the in-
fiuence of chloroform for one hour. For about two months I was better, but my old trouble returned, and again I lost much blood. One of my doctors told me I would have to undergo another oper "My father, proprietor of the Richelieu Hotel, Ottawa, advised me to use Dr
Chase's Ointment, and two buxes cured me. I did not lose any blood after be ginning this treatment, and I have every reason to believe that the cure is a Dr. Chase's Ointment as the best treat nient in the world for bleeding piles." Dr. Chase's Ointment, the only positive and guaranteed cure for every form of
piles, 60 cents a box, at all dealers, or Edmanson, Rates \& Company, Toronto. Evelyn is a very cowardly little girl. The world is so full of terrors for her.
indeed, that her life is scarcely worth
Her father, finding that Her father, finding that aym-
pathy only increased this unfortunate pathy only increased this unfortunate
tendency, decided to have a serious talk with his little daughter on the subject of her foolish fears. "Papa," she said, at
the close of his lecture, ". when you see the close of his lecture, ". when you see
a cow, ain't you 'fraid ?" "No, certainly not, Evelyn." ". When you see a
horse, ain't you "fraid?" ". No, of course not." " When you see a dog,
nin'ti traid? ". emphasis. .. When you see a bumblebeee,
ain't you "fratd?" " No !" with scorn: "Aln't you 'Irald when it thunders?"
"No !", with loud laughter. "Oh, you
N N


## HE IS EMPHATIC IN WHAT HE SAYS

Dodd's Kidney Pills Cured Robt. Bond of Bright's Disease.

His Doctor, who Pald There was No Hiope for Him, Now Pronounces Rlm WollMT. BRYDGES, Ont. (Special).-Among the many people in this neighborhood who tell of the great work Dodd's Kidney Pills are dotng, none is more emphatic Man that old and re "I believe I owe my life to Dodd's Kidney Pills," Mr. Bond says. "My at tending physician said I was in the lasi
stages of Bright's Dlsease and that there stages of Brights Bisease and that there
was no hope for me. Then I commenced to take Dodd's Kidney Pills, and used in all twenty boxes. Now I eat well,
sleep well, and my doctor says I am sleep well, and my doctor says 1 am
woll.
Dodd's Kidney Pills and nothing else cured me. Do you wonder I am always ready to say a good word for
Dodd's Kidney Pills? ., What will cure Bright's Disease will easily cure any other form of Kidney Disease. Dodd's Kidney Pills will al-
ways cure Bright's Dtsease. They are the only remedy that will cure Bright's Disense. Be sure you get Dodd's.



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 HAPLE PARE FABM HOLETEINE
 old hilfors with 701 lbe dams.
DON'T WAIT BE UP-TO-DATE
 W.W. EVERITT, Dun-edin Papk Farm Box 552, Chatham, Ont Farm Box 62, Chatham, Oat
 ABERDEEN-ANGUS


MURON OENTRAL BTOOK FARM ABERDEEN-ANGUS

 the joung ooach stallio
let at Iondon this year
E. BUTT BONB,

THE SUNNYBIDE HEREFORDS
 HP HEREFORDS
Why $\begin{aligned} & \text { Buyers will find our prices } \\ & \text { reasonable, oonsidering the }\end{aligned}$
 Scotch Shorthorns

W. J. THOMPSON, o Mitchell, Ont

Ridgewood Stock Farm SCOTCH SHORTHORNS
 E. C. ATTRILL, GODERICE, ONTARIO shorthorns, Shire and Hackney Horses SHORTHORNS PRESENT OFFERINGS:our ob slioe young bulio. For price end particular


indigestion?
I offer all Stomach Sufferers a Full Dollap's Worth of my Remedy Free to Try.
 RED YEARLING BULL

H. J. DAVIS, Woodstock, Ont: Special opfering or SHORTHORNS and SHROPSHIRES




 W. G. PETTIT \& SONS FREEMAN,
Elm Grove Shorthorns

wareal w. a. sanumas s sox

Scotch Shorthorns

roung bulls helfers
 mp . Blue Ribbon 17095 for sale at very reasonable prices. Come and see what
I have. DAVID BIRRELL, Maple Hal

## SCOTCH SHORTHORNS <br> $$
85 \text { head in our herd. }
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$\qquad$
gill Victor, a Princese Roval, bred by
W. Mar, heade herd
aale a dozen young bulls of the have for or

 either in calf or with calf at foot.
R. MITCHELL SON8. Welson P O., Ont.; Burilington Junction sta naporsies and bumom or SHORTHORN CATTLE and
 Shorthoris ser Lincolns
 W. H. TAYLOR \& SON. Parkhill, Ont. Shorthorns, Cotswolds, Berkshires

 CHAS. B. BONNYCASTLE, Campbellford, Ont.,
P.O. and Statio
 R. \& S. NICHOLSON SCOTCH SHORTHORNS Present offering: Seven young bulls of ser-
viceable age:
pood ones.
particulars. Parkhill Sta. and Telegraph. SYLVAN, on MAPLE HILL STOCK FARM SCOTCH SHORTHORNS
 The granalv-bred Lavender bull, Wanderer
Star $=858=$, by Wanderer's Last (Imp.).
Special offering: A few choice young bulls.
 SHORTHORNS FOR SALE J. K. HUX, o Kodney P. O. and Stn. HiaH- Shorthorn Catile Ano



LAKEVIEW SHORTHORNS.



## SHORTHORNS



Shorthorns. Lincolns and Berkshires
$\qquad$

APRIL 20; 1905


THE FARMER'S ADVOCATE.

## cossiv.



BELNAR PARC
SHORTHORNS

R. A. \& J. A. WATT

SHORTHORNS
 For

 Quenston Heights Shorthorns

GUDSON USHER, Queenston, Omt FLETCHER SHORTHORNS



 I2 SHorthonn bulls 20 Cows and Heifers
Good ones, Socten- bred, at moderate
prices.
Catalogeves on application. SMITH, Exeter, Huron Co., Ont Station adjoins farm. Long-distanoe
MOUNTAIN VIEW SHORTHORNS Imported and home-bred, male and
femate, prite and sweaptakee winners
varion 8. J. MeKnight, Thorabury $_{\text {station }}^{\text {Eppling P.O. }}$ YOUNG SHORTHORNS for eate. (it then
 THOS. MERCER, ${ }_{38,}^{\text {Box }}$, Markdale, Ont, CLYDESDALE HORSES, SEORTHORN
CATTLE And YORESHIRE PIGS. Shorthorns and Yorkshires Present offerings: Young stock, either
sex. For price and description writo to Mapleton Park Farm. THIMMEsvilue, ONT SHORTHORNS FOR SALE
 HODTHORNS \& CLYDESDALPS SHORTHORNS \& CLYDESDALES Present offerings, a few young bulle, gired by
Prince of Bant (mp), Aleo one registered
Princel
 WILLOW BANK STOCK FARM Large and old-ast blilihed hed herd of short
Horerss. Gond milking qualities. Splendid



The Breed That First Made Hillhurst Famous.


9 Reds and Dark Roans


SAS. A. COCHRANE,
Hillhurst Station,
o Compton Co., P. Q. TEREE IMPORTED


 Mimimian mow


A. EDWARDMEYER Mataio Sooteh Shorthorns
 Him:


merobituration rimb nembenioulimbe mp



## SHORTHORNS!

Nompanat ondipquan ,oia kean min sam io glenavon gtook farm, at Thomi haonatit aprino valler smoathonne



Shorthorn Bull
 OOOTOM-TOPPLO OHORTMONN -ooron-roppoo suontionNo

 Bubriar


Vema. Gralncer \& EOn
Hawthorno Hord op Deop-mulking



Arthur Johnston arEENWOOD, ONT.

Oimp. bulle, all registered in E. H. B.
7 high-class home-bred bulls, atl by imp. sis
and from imp. or pure Scotch cows. tmp. cows and heifers.
very fine heifers of our own breeding, by imp

## SHORTHORNS

$$
\begin{aligned}
& \text { Still have a few good young } \\
& \text { bulls to offer. Also an ex- } \\
& \text { ceptionally good lot of heifers, } \\
& \text { among which there are show } \\
& \text { animals. Prices easy. } \\
& \text { CATALOGUE. }
\end{aligned}
$$

H. OAREILL \& BON, OARQILL,
JOHN OLANOY, MANAGEr.
OM
OM

SHORTHORNS
 Nine young bulls Nine young bulis
ft for service.
Showing the fin fhowing the fin
Sest Oruickshank est Cruict
breeding. Good SIze, Quallty
Flesh and Bone. . Oatalogues o Inspectio
JOHM DRYDEN \& SON, Brookiln P. O., Ont Sping Grove Stock Farm SHOOTHORI CATTLE \& LIICOLL SHEEP




T, E, ROBSON, ILDERTON, ONT, PINE GROVE STOCK FARM nOOKLAND, ONTAMIO,
S COTCH SHORTHORN and SHROPSHIRES
W. C. EDWARDS \& CO., Ltd., Props T. DOUGLAS \& SONS SHORTHORNS and CLYDESDALES Present offerings: 12 young bulls of No.
qualty
quity ready for immediate errvice: also cows and heifers of all ages. Also one imp
gatallion and two brood mares Pricer rear
able
town. Visitors weloome. Farm one mile troum
om MAPLE LOOGE STOCK FARM

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1854
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Fight very choice young bulls, of the
best breeding and from first-class milk. ing oows. A few handsome heifers
algo for sale, and a few Leicesters. om 14 Shorthom Bulls Choice Scotoh-bred
moderate
prices. \& W. RUSI to Yonge St. trolley car from Union Station, SHORTHORNS FOR 8 GALE.




Potash as Necessary as Rain The quality and quantity of the

## Potash

in the soil. Fertilizers which are
low in Potash will never produce low in Potash will never produce
satisfactory results.
Every farmer should be faniliar with the


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CLEAR SPRING STOCK FARM HIGH-CLASS SHORTHORNS A specialty. Present offiorings young bulls and
beiliers from frrotilabs sockz Corroeppondenoe JAS. BRection of herd invited,
JAS, Thorold Sta. \& P. 0 . SHORTHORNS and CLYDESDALES
 splendid Clydozadal
lered. All young.
JAS. MOARTHUR PIne Grove stoolt Paem. GOBLE's, ont. First-class Shorthorns-Young cows and
 a lattilimer, Box 16, Woodstoolk. Ont Offors Shorthorn Bulls, fit for servioo. Also
wo mber of york
wo



LIVE-STOCK EAR LABELS Farmers and ranchers will fin
hese labels very useful.


KO-JHRPETY - 1 KO to choose from. 74 First Prizes, 1994.
We have what you want, male or female. B. H. BULL \& SON, Brampton, Ont Nether Lea Ayrshires - Young stock of either Inmilies, for sale. Two choioliy-bred imp
bulls at head of herd. Correspondence and inspeotion invited. T. D. MOOALLUM, Danville, Que. AYKR HIIREE.

 sood May 15th only
"THE FARM"

Springhill Farm Ayrshires For SALE: One y
for service also a fo
and fanales, all ages.
Robt. Hunter \& Sons, Maxville, Ont, MREDINVOOR AYRSHIRES


 a. T: R. and C. P. A nue de lislor, BUNNY 8 IDE AYRBHTRES Are now offering Leader of Meadow Bank,
the Pan-America winner, and threee oung
bultb, from 1 year to mor mos. old; also cows and


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 We want you to remember that HOLSTEIN COWS
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 | hander A fow good young |
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Annalale Btock Farm, Tileonburs, Ont

## FIVE-YEAR-OLD BULL




Hilton Stock Farm Holsteins, Cotswold Present offering: One young ball. A fow young boarr. One god one fit for service.
At very reasonable prices if taken Boon. For particulars writo to prices Brighton Tol astn. Maple Grove Holstelns ${ }_{\text {stand }}^{- \text {In }}$ oflicial tests the er 3ry year-old. 1 st 2 -year.old and 1 lst ander
onecial inducements are offered Years old. Special inducemente are ofirered
hizh hellass bulls to quilik purchasers. For par

APRIL 20, 1905
THE FARMER'S ADVOCATE.

| nocoop $0^{2}$ |  |
| :---: | :---: |
| Sand |  |
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|  |  |

IERTON LODGE HOLSTEINS
 Aro
prize-
winners
as
well as
neo
pro-ers.
ducer as well as ducers.

Troth hoat to enlot from. Sod great fire


syadala iolstoíns
 11 months old.
brown bros., - Lyn, Ont Woodbine Holsteins



A. KENNEDY, ANR:

Maple Glen Holsteins spulis, fit offor foring two

 Hight-class Registered Holstelns. Young
 Campbollford Stn. © Warin DORSET HORN SHPEP an SCOTCH SHORTHORNS

 norr and moresest Louis pize winnoers than an thar fook hand.
John A. MeGilluvay. North Toronto. Ont Ozford Down ghoop, short
 OHOIOE SHROPBEIREs Always on hand, of the choicest qualty and reconof sand 14 thirdis at 9 shows, inolladi oronto aiad ton Dorset Sheep and Large Morkghires. and


## W. W. CHAPMAM,

Soergtary of the Natonal Shoep Broed-
Soerotary of tho Kont or R Romney Marsh and late Soerstary of the Southiow sheop osoitety. Podifero Live Stoik A Ent Rypadter and Mismonally zoloetod and erportod on eipm-
Addross: Inowbeay housk, nobfolk aables-Sheopoote. Loodion.

MILLCREST HERD OF
ENGLISH BERKSHIRES

BARREN COW CURE

| refund money. Gi |  |
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Improved Chester Whlites and Tanuvorths


 H. GEORGE \& SONS, Crampton, On GLENBURN HERD OF

## YORKSHIRES



For Sale Ohio Tmproved Cheoter Whiteo the

 maple grove yorkshirbs por salib.


 Writo me if you want any. For male, cheai


 Now is the time to book your orders
fr y young pigs for May Mond June de-
livery. A few good young boars on
lion $\underset{\substack{\text { fires } \\ \text { fand } \\ \text { nand }}}{ }$

GOssur.


## 20 10 Sick Pigs

Overfeeding retards growth and il
productive of many stomach aill ments ine the Young shoat, such a
fever, Internal infammation, indi.
DR.HESS stock FOOD

given regularly with the ordinary Tood preventa al disorders of the the





mallin a porrocls. ${ }^{\text {Dom }}$

doos
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in England, backert up liy conformation.
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