## PAGES

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Vol. XLVI
LONDON, ONTARIO, MARCH 16, 1911.


## Free to Stock and Poultry Raisers

We will send, absolutely free, for the asking, postpaid, one of our large thirty-two-page booklets We tells you how to feed all kinds of heavy and light on the common feed poultry so that they will lay just as well in winter as in summer. No farmer should be without it.

 specite makes each Animal worth 25 per cent. more
You never heard of any other Specifice, You never heard of any other
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two to three weeks. It makes the milk richer than ever before.
MR. ANDREW WEGRICH, of wainilett, Ont., says: "This is to certify that I
have tried your Royal Purple Stock have tried your Royal Purple Stock
Specific for two weeks, on one cow. On
On on the 10th I weighed her milk as 17
pounds. I noticed a change after 5 or 6 days, as there was an extra weight of
milik. On the 29th, I carctully weighed milk. On the 29 th, I carcfully weighed
the milk, and she gave 22 pounds. I
am giving an order for 5 boxes, as I "Stnck Food" will not do this. Because than a mixture of the very things which
you, yourself, grow on your own farm. It is not more food your Animals need.
They must have something to help their
bodies set all the nourishment from the bodies get all the nourishment from the
food they are getting. So that they will
fote They newd something to prevent disease.
to cure disasw, and to keep them in the

## Not a Stock Food



rodulut comnain Grain, nor tarm



Rogal Purple crrates an appetite for Make This Test


 Centralia, Ont., Feb. 7. '1O
The W. A. Jenkins Mifg. Co., London, Ont
(ientlemen,-We have been he W. A. Jenkins Mif. Co., London, Ont...
(ientremen,- -We have been using Royai ,urple Poultry and stock Specific for the ast three weeks, and must say that rowits are remarkable. Am feeding the
-itock specific to two milking cows, and they have increased 30 per cent. in their
the miik. The loultry results are even more
marked than this. marked than this. We have about 60
hens, laying age. When we commericed hens, laying age. When we commericed
feeding, we were getting five and six eggs a day, and in the last five days the same
lock of hens laid 150 eggs, almost an flock of hens laid 150 eggs, almost an
average of 31 each day, and those five average of 31 each day, and those five
days have been the coldest this winter. You can see results plainly in two or
three days after the use of "Royal Purthree days after the use of "Royal Pur-
ple," and the poultry have the pame ple, and he pountry have the same hustle and appearane
mer time. With cows and poultry, an using exactly the same feed and care as
before starting to feed "Royal Purple." before starting to feed stockal Purple.
When farmers and stot acken quainted with Royal Purple, it will have a greater demand than all other tonics $\begin{gathered}\text { and stock foods on the market combined. } \\ \text { Yours truly, ANDREW HICKS. }\end{gathered}$.

Aug. 28, 191 : W. A. Jenkins Mrg. Co., London, Ont.: Gentlemen, -Last Fall we had in our

stables a young mare belonging to Miss
(louston, of Montreal. We could Clouston, of Montreal. We could not
feed her uny bran on account of causing
violent scouring. consequently to hecome w.ak and thin. We com-
menced using your hoyal Purple Stock Specific, using yhe reur resultsal Purple Stock wonderful.
After using it three weeks, could feed the animal bran or any other
coll soft feed without scouring her, and shit
actually took on in this time twenty-five pounds of desh, we working her at the
same same time through the hunt. I can
heartily recommend your Stock Specific. TOM SMITH,
Trainer for the Hon. Adam Beck
 Royal Iurle Gull Cure.............. ${ }^{255}$. 25 c
Royal Purple Sw'at Liniment..... 50 .
nary-fod alvers are magic." For Poultry


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covering the lines manuarured.
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cutomers have produced this result.

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GRAY-CAMPBELL
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C. WILSON \& Toront 78 Esplamade Streot E.


Beed Grealio fox malo Seed oats (white). Crown Jewel variety, early and
good yielder. Mandxchuri barley, as good sample

 Aridrew SInclair, McIntyre, Ontario. Early Amber Susar-cane Seed and White
Cap rellow Dent Corn for sale. Buy capn on cow dend string as as guarantet of
quality and vitaly. My corn is well
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satisfactorily.
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Every Fruit-grower Should Have an Hydrometer to Test His Spray. - We will mail to any Beaume and specific gravity reading. bEAN SPRAY Pigh - harge capacity with high pressure. Let us prove this to you. Send for illustrated catalogue. NIAGARA BRAND FACTORIES:

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vol. xLVI.

## EDITORIAL.

## The man who lives for money lives in vain

The soil and the seed is the practical problem of the hour.

Read and re-read the masterly contributions in Read issue relating to seeding operations, by J. H Grisdale and L. S. Klinck

The application of the principles involved in The questions introduced in the last issue of "The Farmer's Advocate," in relation to soil culture and seeding, would. in the opinion of Pror. J. H Grisdale, of the Central Experimental Farm, lutionize Canadian agriculture.

One good result to date of the reciprocity issu is that it has to some extent diverted the attention of American newspapers and magazines from their persistent prattle about the Latin repu their of Central and South America, and rossed theion vision upon the nascent, sel-gor of North spread across the.

The present Government of Canada has paid out $\$ 16,315,862$ in iron and steel bounties, $\$ 1,-$ 580,703 in lead bouncies, 2105 , fibre bounties, and $\$ 1,888,195$ which these aggreties. Twenty million dollars, which these nursing gate, is quite a tidy sum to spend on a nursing bottle. There is no reason why the iron and steel bounties should be renewed.

That 2,200 people own half the land of Engand, is the rather startling statement accredited by our Finglish correspondent to Professor Macgregor, of Leeds University. The number of persons owning over one acre is said to be not more han 250,000 . This is concentration with a ven geance, and goes to explain popular
tion with the land system. C. Turnor, of Lintion with the land system. Problems.," which has caused considerable discusior in Encland, believes that land reform wil sior in England, believes years, and that the development of small holdings lies at the root of such reform. True to his convictions, he 4,000 nounced an auction sale of his estate of 4,000 acres.
Rural Canada is strewn with neglected opportunities. Crops which might be grown with large profit are ignored, or prode that they make too much work. This point is very much over wrought. In determining what lines of agricul ture to engage in, the questist work, but what what crop will make ample wages for the labor
will repay the most ample that is employed? The answer, orces, but, tak vary with concitions and arm, a studious farmer of our acquaintance contends it is within the inark to say that one-tenth of the arable acreage should be in alfalfa, one-sixth to one-fifth in corn, and one-quarter to one-third in clover These crops make work, but they make the money estimaters is decidedly too low, it is the estimate allowed for alfalfa. Remember that alfalfa an clover incrase the capital or producing value
the land.

LONDON, ONTARIO MARCH 16, 1911

Training Agpicultural Teachers A professor in a leading American College of Agriculture stated to one of the editors of "The a serious handicap in his work through the lack of a mera thorough preliminary education. A young man of good, reselute parts, well versed in the technical knowledge of his department an its practical bearings, he was not likely to rea content under such limitations, but would resor to special means of self-improvement, in order improve his vocabulary, his art of expression an methods of teaching. When we remember the large number of colleges and sed with experts in ture that have ha bor surrecent years, il is and themselves in prise that predicament. To have knowledge is ch thing to possess the quickening genius of one thing, Kite another. Knowledge is power when it means an endowment of faculties equipped for service. To teach effectually, in the true sense of the word, is one of the greatest of al vocational achievements, and few there be that find its talisman. Schoors and colteges of agh culture will increase in numbers. Hore agrical tural teachers will be required, and more teachers equipped with knowleage of agrol life for the elementary sur shey which inctude the High senool teching? The to be trained for the work of cecourses in The inadequacy of the Normi teachers for the rural tario to prople suppubic schoois is con the Arricultural College, plementary cou the local exigencies of politics, Trol school in conjunction with that instituaraight have proved a valuable and unique agency in the teacher-training outfit of the Provagency in turth-year graduates of the college are drafted directly into the position of County Representatives of the Provincial Department of Agriculture, and a part of their work is to organize and teach agricultural classes in the local High Schools. They have, no doubt, found great er and more immediate encouragen und fines of work, such as special short corrontration ing schools, orchard meotigs, the organiza work, school-garden cond the Corn-growerg' As tion of farmers cluns, math work is steadily sociation but the olthe pepartmental pelicy, we Judged by the remarkable progress o public and private agricultural schools, and the growth of agricultural classes in regular High Schools across the line, an increasing demand for teachers trained in the pedagogic use of agricul tural knowledge may be expected. The outcome of the work of the Royal Commission, Rotertson, on Technical Education and Industria Training, will give added stimulus to that typ of teaching
Agriculture is hoth a science and an art -inseparably so-and there is a science of farming itself distinct from the groap of natural sciences, such as botany, entomogla the the istry, that relate to it. Gective provision to seem goou reason elective subject in connec pedagogy, say as an ears' course of agricultural tion wince teaching involves not only colleges. Subjects, but of the personality knowiedse and a bringing of the two to those tainch trauning would undoubtedly be source of great strengeth to the graduates of those institutions, in whatever capacity, public or private, they might be called to serve.

In the Daipyman's Interest.
Western and dairy form at the subject fron long experien, has no hesitation in expressing to "The Farmer's Advocate" his trons approbation of the reciprocity arrangement. The vastly-increased demand will prove stimulative to the trade in dairy products, and, in his sudgment, tend to a levelling up of prices. The recent shading down of American prices for butter and eags is conceded to be the result of speculative dealings in these products forcing them to a point above legitimate values. The Now Yore Produce Review and American Creamery reaches the following conclusion. that the movement of dairy tril in either direction under realize seasonable difficient to do more than eque distinct advanferences, being to the affing productive tage, and withou that, notinterests. withstanding the and private individuals, in both by Goverice and the Antipodes, production Europe, America, with the increasing demand is not keeph products, as has often been prefor milk ane by. One need only consider dicted in of milk as a food, the teaching of modern medical science in support of its more moneral use, and the enormous growth of urban population, daily crying out for milk and cream and butter, to understand how difficult it is, with a highly-organized and skill-demanding industry like dairying, to keep up a sufficient supply. If markets could be restricted to one o, products, and be kept by The Trado in cortain limitedechannels, it might be possinle to corner prices down a notch or the becomes more and lessened tarim restrions, suppose that, with the more difficult. One mig of United States dairy characteristio.ould peep pace with, if not overdo men, theystry ; but not so. A recent study of the situation in New York State, where so many conditions favor dairy cattle, proved that, even with greatly advanced prices, the requisite dairy cows are not forthcoming. In Ontario we have a similar state of affairs, and reciprocity will probably send buyers abroad in this Prors recruit the big dairy herds of the and add emphasis to the counsel give raising columns, to make mori al a dairy heifers. A decided impetus to the business may be looked of reciprocity.
The inability of United States dairymen to keep up sufficient supplies of butter, even at enhanced prices, led is estimated as having gone on cream, which is estimated as across the or the year ending March 31st, 1911 ons constituting a raw material for the Amer an creameries. It was a necessary and sagacious move, and could only have been checkmated by imposing a heavy export Canadian duty on cream, which nobody in this country seriously thought of proposing. Other things boing equal, and butco now being on the free list, it whl be deckell better to have that cream convartod ino buth in Canadian factories already equipped for the purpose, retaining, also, ther prices for and other dairy supplies. Last years pres our cheese were not alogether branch of the indusfactory patrons, and to by American trade, try, accs where the superiorlace for itself, as it has in

## Farming and Teaching Tablets.

## the Farmer's Advocate

and Home Magazine. the leadivg agricultural if He poblisied werkly by
THE WLLLIAM WELD COMPANY (LIMTED). John weld, managrr.
Agonts tor "The Farmers Advocate
the farmer's advocate and home magatine It publibed overy Thurader.








2. Whan ini.


12. Wi idirion hoid give thi




Address-THE FARMER'S ADVOCATE, or
THE WILLIAM WELD COMPANY (LMITED),
London, Cavada.
the British market, will assuredly have a wholethe British market,
some effect. Caunda has a great deal now at
and some in the dairy industry, and when the in-
stake in the creased cost of cows, sidered, all tending to advance the outlay of pro duction, it would surely prove a boon to permit those engaged in the additional market.

Good Wages and Yearly Employ ment.
-mphasizing the desirability of Western farnd ers employing help the year round, a correspond ent: styling himself "Arce and Home Journal," of Winnipeg, holding up as an example a certain Eastern farmer. He says, in part: in the East-one of the younger generation of Ontario Farmers, and a son of a particular friend of mine. He says
year at $\$ 300$. Now, this looks like big wages for hired help, when board and washing are considered. In fact, when I served my country in the capacity of hired man, wages we nown tolerhalf that sum, or even less.
ably strong and sensible chaps to put in seven months in the summer, when farm work was more laborious than it is at present, at $\$ 100$ or less, aund
if $a$ man got over $\$ 20$ a month, he was thought
to be something of a marvelut this young friends letter is that he says it pays himi to keep thi
man at these semingly high wages. He fed bunch of steers, but they were sold in January Since then. time has been put in painting sleighs chinery, and attending to the hundr
odd things that have to be attended
Ontario farm, as well as those thines that
the hustle of spring seeding. Just think at the rate of $\$ 300$ a year, and good
man for putting in time at such work
" Inadequate methods of agriculture are funda mentally wasteful. "The farm is to be idealized as a mode
social life." social life," living without a corresponding power to make life "worthe ardent curiosity of youth is,
more alert than in the realm of nature." "What is wanted in our High Schools is not elementary agriculture, but elemental, fundan
agriculture." agriculture. " we recognize agriculture as both a
science and an art, we shall go amiss in developing methods for its instruction. Agriculture is the basic industry of human life," "The demand that will bring the schools near er to the life or the people is insistent, and io " If agricultural education simply encourages the yourc to regard scientific and economical
merhods of husbandry as a means of increasing his possibilitities." "Agricultural teaching is nature study which articulates with the adne "Knowledge is necessary to a just apprecia-
tion of other people and their professions and mode of life." ". Through contact with an agricultural course back to nature, and become a successful farmer whereas he might otherwise have become a petty fogging lawyer or a quack doctor. and the art of agriculture may be as truly educative as any of
the regular High-school courses." "We protest against the proposal to tack the science and practice of agriculture to the various
sciences of the High School as a sort of appendage." "Teaching agriculture is more than teaching a conglomeration of
sciences." "The nature of the learner is the fundamental
"The consideration in the method of teaching
"In agriculture, the first articles to be se
lected for study are those with which the average "pupil is most farmiliar." is "The object of agriculture produce professional agriculturists, but to teach the scientine pral culture."
culture as part of general
" In teaching agriculture, the economic approach and sanction appeal to a very strong instinct in the youth, Information is useful in making the activi ties of the individual more intelligent.
"The function of a book is to express to other minds, in terms of printed language, the
information which a mind has acquired by contact "with the original subject itself." ". The mind of the learner must be brought in
contact with the real thing. It is not sumficient ence it." Information, ability to do, and good habits are the primary elements in the educational pro grainme "Bushels of happiness " are about as easentia as bushels of wheat." "Ideals are the silken threads of consistency upon whe
strung."
"Too many men make the mistake of thinkin that one or two trials are conclusive proof,
" Unless the ability to do is acquired by in dividuals before the age of adolescence is entirely past, the world will never, except in rare cases,
secure marked service from them." " Habits are the crystallization of mental and physical experience by repetition in arving a turkey at a social dinner may be as essential to a young man perience related to this great art of food produc tion. the pupil gradually acquires a sympathetic
attitude to it and to those engaged in its pur sur in studying life and the conditions of growth

Advertisers Should Give County May make a suggestion to advertisers in
.. The Farmer's Adocate ",? Many of them aive
$\qquad$
$\qquad$
Would Eive the counts, ws whe
would dad to the Hini itiov if singestion. some edvert isers, in

## Britisher Wants Brown Bread.

The supply of bread made from whole meal for the villagers on the estate of Sir Oswald Mosley has aroused an interest which can on hae betingly orously discussed by the press, and it really looks as if we were at the beginning of a new era in discarding the white loaf for a whole-meal loaf, and a number of prominent physicians have issued a. manifesto recommending what is termed "standard "bread. such wheat flour, containing at at least 80 per cent. of the whole wheat, including the germ and semolina. Standard bread is said to contain almost four times as much of both
phosphoric acid and iron as bread made from fine One prominent doctor says that better teeth, stronger bones, steadier nerves, and greater ingeneration if whole-meal bread is used in place of the usual white loaf. There is a large " demand
for "standard" flour and "standard bread from every section of the community, and millers loaves. Liverpool is greatest milling center, and the millers report a big demand for the new "standard " flour. One prominent miller states
that, if the public desire brown bread, the mills can readily be adapted to secure the supply. This demand for a bread with a higher niwill tell largely in favor of the rich Manitoba and Russian grains, and against the starchy Sout American and Australian wheat. in Scientific opin 1on, upon the whole, seems in favor of the
"s standard ") bread as being more nutritious White bread seems to be better absorbed by the digestive system, but it is so refined that there i a lack of stimulus to the intestinal tract, and
constipation frequently follows. It is claimed constipation frequently follows. It is claimed
that the "standard" bread provides a mild stimulant, and is less clogging and starchy. The day of the extremely white loaf seems to be pass
ing in Britain.
F. DEWHIRST.

The Sun Will Still Shine.

## rar he to

I am glad to see the stand you take upon the question of reciprocity, and I feel sure that the itself to the great majority of Canadian farmer We hear a great deal of hysterical outcry again The very fact that the press is being flooded with advertising matter against reciprocity, and hat, according to the testimony of an editor being offered double the ordinary advertising ates if they will insert anti-reciprocity article without marking them as advertisements$t$ the back of the campaign are most wisely left unexpressed. The vested interests are fighting, ooth and nail, to prevent any withdrawal of the secial privileges which they have been enjoying nost emphatic way the truth of Lord Rosebery's indictment. Here is his statement: "Under the baneful shadow of protection there grows up corruption You may, after a little trial of protection, wish to retrace your steps, and go back cannot. The moment you try it, a hundred iants spring up behind you to bar your pathgiants, or trade interests that have become giants by no means shall you ever be allowed to return is obvious. Under protection, every protected trade becomes a vested interest, and defends itself by the methods which are known to vested inter-
ests. If they are threatened, they combine in trusts. They fight every election, political or municipal. They haunt the lobbies ,of our Pariiament, and corrupt our legislators."
Have we not seen the truth of this indictment Have we not seen the the the recent history of Canada and the United States? A protective tariff establishes a condition in which the various industries depend upon legislative favors, and no
condition could be more encouraging to all sorts condition could be more encouraging to all sorts
of political corruption. And now, when the reciprocity agreement threatens the downfall of prolike water, in what is, I hope, a vain attempt to hlock the movement for freer trade. Reciprocal rree trade between Canada and the United Stated
has every reason of common sense in its favor and rural Ontario, which, during the last twenty years, has suffered depopulation to the extent of
almost a hundred thousand, in order to build up
urent cities wherein are bred millionaires and

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ent with the before-mentioned require-
The value of Shire stallions and mares has
enormously increased in the last It was formerlya very rare occurrence for a sta- there buying mares to mates (673), in order to until after the formation of the studbook that oreed ince, he was taken with Lincolnshire
prices began to increase. Since that time, it has
not been a very uncommon thing for stallions to
Lad, and, having bought him, he sent him into
make up to 2,000 guineas, and mares up to 1,000 make up to 2,000 guineas, and mares up to 1,000
Derbyshire, where he became the sire of many
guineas. This is due, to a very great extent, to
the fact that registration enables breeders to know
thanals, but the most important of
his sons was Lincolnshire Lad II, the chief of which animals. It is only by these means that
best anima3), which was one of the grandest and most
breeders are enabled to ascertain with any degree
impressive sires of the breed in his day. of certainty which animals will likely reproduce
themselves. We may confidently expect that, as the breeders of Shire horses have now agreed as
to what the type of the Shire should be,the improvement which has taken place in the breed in the pionship. He was again champion in 1895 and
last twenty-five years will be as nothing to what 1896 ; and Markeaton Royal Harold (15225), an-
will be seen in years to come. Thirty years other descendant, was champion in 1897. This
ago, it would not have been believed that such wonderful horse, Harold, was the sire, between perfection and early maturity as is seen in ani- 1893 and 1900, of more winners in stallions and
mals now exhibited could have been arrived at in mares than any others. Perhaps his best son
the time. The agricultural shows of England, especially $\begin{gathered}\text { Another horse of great quality was William } \\ \text { the Shire Horse Society, held in London each } \\ \text { year during the months of February or March; Conqueror, In one year he was the sire of of }\end{gathered}$ Lord Wantage's Prince William (3956) and Lord and the Royal and County Shows, have had a Rosedale's Hitchin Conqueror (4458), two of the
great intluence on the advancement of the Shire
horse, but perhaps nothing has done more in this inost successful and impressive stallions of the
direction than the Foal Shows held in different Hitchin Conqueror is said to have been
dhe sire of more sound progeny than any other parts of the country. Noticing what poor use pacities of their mares, which in many cases were Driving.
many of the best Shire horses were, and had
been for a considerable time, bred by small farm-
ers, these foal shows were started in the autumn
observation, very what one can glean from casual
ortle attention is paid in rural months each year, and by this means many foals districts, to the manner in which horses are driv-
have been sold by small tenant-farmers at from en. In fact, the subject is treated as one upon


## LIVE STOCK.

footed; but they are, and such an attribute can The lower part of the right hand may rest up only be explained by referring it to the nervous
organization of the individual. Analogies of this sort could still be further given, but we are not so much concerned in ex-
plaining the causes of certain aptitudes as we are in eudeavoring to
faults in driving.
The differences between good and bad driving The differences between goo handling of work
are not so apparent in the hat
horses as in those used for faster work, but even horses as in those used for faster wo
in them faulty handling shows itself.
The slipshod driver is very much in evidence behind work horses. You see them driving a pair with one horse ahead of the other; he is simply no attempt to keep the draft of both horses even; he does not feel th
ected and balanced.
Whether a horse is pulling a load or going be-
a "foolspace," he should be kept "colyond a "Poolspace," he should be kept "coland does not fatigue so easil. A horse is "collected " when his head is kept in a state of contraction. When a man is running or walking fast, he closes his hands by conorder to keep himself collected. If he did not do so, propulsion would cause him greater effort.
So with the horse, if he is exerting himself either in travelling or in pulling a heavy load, light but steady pressure on the bit assists him in keepin
collected and balanced.
mouth ; they encourage bad carriage of the head and neck, and are apt to spoil his, gait by getting
aim into the habit of " hitching." him into the habit of collected and balanced, the fore legs are not so apt to suffer from the ill
eflects of concussion and strain. If the head is kept up and nose in, in travel-
ling, the fore legs are relieved to some extent, ling, the fore legs are relieved then thrown on the hind ex tremities. Heary-handed drivers also inflict much injury on a horse, and cause him much discomfort. Thev are apt to make his monection with that organ, such as side-lining, pulling, tongue
etc., and cause him to mix his gaits. driver's aim should be to manipulate reins with a light, but firm and steady hand.
It is usually necessary to exert more force manipulating the reins in speeding a horse, in order to steady him, but injury to the mouth ortable bit.
The skillunl driver is always careful observe if the bit is in the proper position in the mouth
of the horse he is driving. If it is too low, he of the horse he is driving. If it is too low, he tongue over it. If it is too high, he will not
readily respond to the pressure of it, and consequently he is apt to pull, cross
month, and project his tongue.
Placing a bit too high in the mouth is a very fertile cause of getting a horse into bad habits in connection with the morriage of his head and neck.
The manner of holding the reins and whip, and the posture of the driver, are of much moment in
skillful driving. It has been found out by experience and study in a certain way in order to contribute to the ease, grace, safety and
Some drivers, who have not been taught this way of driving, in their youth, find it hard to adopt it in late life, and scoff at the idea of there
being a ". "best way," as they get along, very well in the way they picked up themselves," but great deal of difference between the manner of
holding the reins when driving trotters and orused and style is sought for. titude and holds the reins in a manner so tha he can exert all his force in contrang he braces himself, with legs stretched forward and arms extonded, with a rein running
over the palm of either hand, and grasped firmly over the palm of either hand, and grasped firmly
with the fingers, with the straight whip carried In ordinary driving, especially when a curb-bit
is used, the reins should be separated with the first two fingers of the left hand, the ends passing
out of the lower part of it. The thumb should out of the be held the point upwards, not pressing down firmly upon the reins. The wrist should be bent, so that the knuckles are turned towards the waist,
and the elbow is bent at the left side. The hand and the elbow is a height approximately opposite the waistband.
The right hand holds the whip, at about ten
inches from the end, the lash-end of it is directed inches from the end, the lash-end of it is directed
upwards, forwards, and towards the left. Nothing looks more unworkmanlike th
whip at or near the extreme en
same position; but the right one, besides holdin!
steadying the tension of the reins, also in turning or guiding it may be userting traction, the righ placed in front, and dividing the reins by the two middle fingers, may assist it; and also, in short ening the reins, the right hand pushes them back
between the fingers of the left. The near rein is always held uppermost, pass-
ing over the index finger of the left hand, while the off-rein passes between the second and third fingers.
The position of the driver should be easy and unconstrained, but approximately erect, with arms dropping along the sides, and elbows squared at the waist. The legs, from the knees downwards,
should slant slightly backwards, and the driver should not sit too far back in his se

## New Enpland Hopse Market.

Rather striking support of the view that it is etter for the average net interest of producer and consumer to have horses exchanged freely be pensive long-distance transportation by means of opposing tariff barriers, is furnished by the interview with Geo. Climie, one of the largest horsedealers of Montreal, published on the market page of " The Farmer's Advocate last week. Mr. Climie is of the opimion that reciprocity but may reduce prices of horses to the producer, but may be benefited, he thinks, by the opening up of wider markets and additional opportunities all round. While anticipating that Montreal dealers may lose expects they would do a large business with the States of New York, Maine, New Hampshire and Vermont.
Confir
Confirmation of this view is furnished by a
perusal of quotations in Eastern cities. Through perusal of quotations in Eastern cities.
the kindness of Prof. McLean, recently
Farmer's Advocate " staff, now of Massachusetts we have been supplied with these figures, from
recent issue of the American Cultivator, an old and recent issue of the American agricultural journal, published in Boston. On February 25th, 1911, they quot their Boaton horse market as follows (we hav condensed this a little) : "Horsee weighing from
1,650 to $1,800, \$ 300$ to $\$ 400$; those having ex tra weight and quality, $\$ 400$ to $\$ 425$. Mediumweight horses, $\$ 225$ to $\$ 300$; expressers and
general delivery, $\$ 185$ to $\$ 225$; chunks, $\$ 100$ and generaccording to quality and size. ," February 12th, 1909.-Horses from 1,650 to 1,900 pounds, were quoted at $\$ 325$ to $\$ 450$ medium-weight horses, $\$ 280$ to $\$ 325$; expressers
and general-purpose, $\$ 150$ to $\$ 225$; first-cless and general-purpose,
drivers, $\$ 300$ to $\$ 700$.
" September 5 th, 1908.-Horses from 1,500
 weight, $\$ 375$ to $\$ 450$; chunks and expressers,
$\$ 200$ to $\$ 225$; roadsters and drivers, $\$ 800$ and

## Money in Drafters Like These.

 Another lot of slashing big, high-quality draftgeldings, twenty in number, and ranging in age irom five to seven years old, excepting one colt Vancouver or Wednesday, March 8th. These horses are the kind that are a credit to the Province which produced them, and very profitable
to their breeders. They are, without exception, " all horse," put up on approved draft lines from head to croup, and from feet to back. Rough,
curly hair and coarseness is conspicuous by its
absence throughout the lot. They would range absence throughout the lot. They would range
in weight from about 1,650 for the colt, up to
1,800 or thereabouts-possibly a little more. 1,800 or thereabouts-possibly a little more.
Several of them should tip the beam around the
latter figure. They have been picked up in Westlatter figure. They have been picked up in West-
ern Ontario during the past few weeks by W.m. rn Ontarin during the past few weeks by W.m.
Wallace, whose card, has been appearing in "The Farmer's Advocate," and go forward to J. H.
Brooks, of Vancouver. 'They are about as fine a Brooks, of Vancouver. They are about as fine a gether, and, by the way horses are selling, must
have cost a princely price. These are the kind

## A gentleman driving on the street the other

 day, gave a young man a ride. Asked if he wereattending school, the reply was that he was taking a Commercial College course. He explained railway offices, but found out that, in order to advancement, he must have more education, and
was allowed off on furlough for six month. "I
attended the city Collegiate Institute," he added, "b but didn't look at study seriously, simply fooled away the time, and now I have found out what
mistake I made.". Nowadays, the business


## THE FARM.

The Soil and the Seed.
Soils and crops are inseparable. Crop yields are deterrinined by the amount and availability of the plant food in the soil as much as they are in-
fluenced by the character and quality of the seed sown. The maintenance of fertility, the preserv-
ing of cood physical conditions, the conservation of soil moisture, and the use of high-quality seed, of any grain crop.
All cereals are soil exhausters ; all legumes are aoil enrichers. Therefore, in any permanent system of successful cropping, the culture of clovers
and closely-allied species must have a place. The and closely-allied species must have a piace. The
frequent growing of these crops will maintain the productive capacity of our soils so far as the most expensive element of plant food-nitrogen-is con
cerned. As for the other elements most likely to cerned. As for the other elements most likely to
be present in the soil in limited quantities, the be present in the soil in limited quantities, the
feeding of all roughage and concentrates, and the
return to the land, without needless loss, of the return to the land, without needless loss, of the
manure thus produced, is, perhaps, the most ef manure thus produced, is, perhaps, the all farms except those where the most intensive systems o cropping are followed the sowing of small grains is the preceding fall With but few exceptions, fall plowing has prove better than spring plowing. Fall plowing pre
vents the seeding of weeds, makes conditions more favorable for the absorption and retention of rain favorable for the absorption holds injurious insects in check, equalizes farm labor, facilitates the pulverizing action of frost, and
much earlier in spring.
much earrier in spring. should be cultivated in the spring as early as it
can be worked without injuring its mechanical can be worked without injuring its mechanical
condition. The amount of cultivation depends
wholly upon the land and the season. Deep culcondition. The ano and the season. Deep cul-
wholly upon the land and
tivation is generally preferable to shallow, pro tivation is generally preferable to shallow, pro-
viding sufficient top-working is given to firm the tate the rise of moisture by capillarity. If the area to be seeded is so large that the
land cannot be sown as rapidly as the ground land cannot be sown as rapidly as the ground
becomes fit, it is good practice to harrow it. Harbecomes fit, it is good pracuse and forms a dust blanket for the retention of soil moisture. This point, which is of such great practical value, is
tenerally overlooked because so few realize the generally overlooked because so few ebing grain crops to maturity. For every ton of dry matter produced, wheat requires 350 tons of water; oats,
375 tons; and corn, when the amount lost in 375 tons; and corn, when the amount
evaporation is included, requires 570 tons for every ton of air-dried fodder. The average rain-
fall during the growing period is, therefore, inHdequate to meet the needs of the crops, hence vation, the soil water resulting from fall rains $\underset{\text { Failure to get }}{\text { and winter }}$ of grasses and clovers is frequently attributed to of
a lack of fertility, whereas, in many cases, the
loss is directly attributable to an insufficient supcoss is directly attributable to an insufficient sup-
ply of soil moisture. In such cases, moisture not fertility, is the limiting factor in crop pro-
duction.
Results obtained at many experiment stations, and on thousands. of Ontario farms. where comarative tests have been conducted hy members
of the Experimental Union, have emphasized the importance of growing only those varieties which quirements of local conditions.
strain, as well as the class of al, and cannot safely careful experimental work with a number of vari-
eties of barley and oats, without change of seed, has proven that. under Guelph conditions, these
rrains have not only not deteriorated, but have actually increased materially in vield. Several
of the leadina varieties now under test at Ste. Anne came from this stock. We have acted on
the principle that prains, grown under reasonably favorable conditions, it properly screened and
fanned, will not run Experiments ar are, with the eeceetion of the
that all small grain,
field pea, should be seeded in the spring as early as the ground can be worked to whantage. In
conducting this experiment. tive seedines were made with each class of grain. and, as the seed
ings were one week apart. the fith soeding was our years' work are striking and sugenstith
Spring wheat, seeded as early as the sromul conl be worked, without injuring its physical whin
lition, averaged : $: 8.12$ bushels per arre. whilu and


All classes of grains experimented with showed
a gradual decrease in yield as the time of seeding was delayed, except barley and peas. To iavertrate: The first seeding of wheat geve the second 29.69 bushels, and the fifth 19.63 bushels-a strong argument in avor of early seeding.
On land in good tilt
On land in good tilth, and in a good state of
fertility, two bushels of wheat per acre has proved most profitable. The same rate has proven best with six-rowed barley. Rearults obs,
tained with oats, based upon four years with duplicate tests, would indicate the advisa-
bility of sowing slighly more than two bushels per acre.
I.arge, plump seeds have given, on an average higher yield than the same number of medium or
small-sized grains. While this is true, it does not necessarily follow that, because a man sows only the largest and best-developed kernels, that he can therefore, afford to sow a less quantity by meas, grarled seed will, because of the larger number of grains it contains, generally give a greater yield
than a pound of seed composed of nothing but the largest and hest-developed grains.
Grains sown mixed give a larger yield per acre han grains sown singly, providing two highielding varieties which ripen at the same time
are sown in proper proportions. So far, one and are sown in proper proportions. So barley and one bushel of Daubeney oats has given the most satisfactory Prurns. $\quad$ Drilling is to be preferred to broadcasting. The extra yield, however, aside from the case of peas, is, in the average season, and on well-prepared and, not great. Drilling distributes the seed depth. As a result, germination is more prompt and uniform, and a less quantity of seed is re-
quired quired. Weeds are less troublesome on drilled than on broadcast land. Barley and oats, drilled,
are much more liable to be injured by smut than when broadcasted. In dry seasons, grains should be rolled immeIn dry seasons, grains should be rolled imme-
diately after seeding. Rolling brings the soil in diately after seeding. Rolling brings the soil in
close contact with the seed, thus hastening germination. A light harrow or weeder should follow the roller to re-establish the dust blanket and onserve moisture.
While all grain crops, with the exception of
peas, might profitably be seeded down with clover peas, might profitably be seeded down with clover,
this practice is by no means general. When grass or clover seeds are not sown with the grain,
stroke or two with a light harrow or weeder after the grain is three or four inches high will prove of great benefit. This is especially true if weeds. such as mustard, are present, as the harserious injury to the crop. The few grain plants which are pulled out will be amply compensated or by the extra tillering induced by the harrowing in those that remain.
Grain-growing is not an exact science. Important as are principles, the prime factor in the
entire situation is the grower himself. He must have a first-hand knowledge of his soil, born of a work
ing acquaintance with it. He must be a man who studies the likes and dislikes of his crops. He must know the "how." He must practice
what he knows. The necessity of exercising fine what he knows. The necessity of exercising fine
judgment in many points, which are all too frenever be overlooked. Here, as elsewhere, applied Mawledge of detail

Soil-moisture Control and Short Rotations
Editor "The Farmer's Advocate":
The questions you raise for discussion are most
timely, and concern matters a proper consideratimely, and concern matters a proper considera-
tion of which, and the careful application of
available information, would certainly work a revolution in Canadian agriculture.
In my experience, however, the most difficult In my experience, however, the most diflicult
part is not the learning how, or knowing when,
where and how to do things, but rather the acwhere and how to do things, but rather the ac-
tual
toing of them. On the Experimental Farm operations in the very best way, and exactly the
right moment is exceedingly difficult. I am. right moment is exceeding it must be very
therefore, quite conscious that it must
difficult indeed for the average farmer to di everything at the right time and in the right, way
according to his best knowledge. Ilowever, ther is nu. denying that the only way of keeping th
immortance of good methods and prompt operation
in mind is to discuss the same, and then inculcat There practice The farmer's life certain seasons is a strenu Cus ho worll all the enthusiasm, energs and when whith it is pinssible for him to


prompt in the performance of operations, are ruly marvellous, especially if with these impor-
tant points be combined the growing of the right rops, in the right fields, on the right farms. In other words, the following of proper rotations
and of a line of farming suited to the district. and of a line of farming suited to the district.
As an example, taking the average crops in Ontario at average market prices, it would be
quite possible to more than double the value the crops in this Province in three or four years, were our farmers able to even fairly well comply
with the general suggestions given above. Entering slightly into the detail of the matter, and following to a certain extent the line of discussion suggested, I might say that we have not ound any advantage here, in my division, at
least, from the changing of seed. I believe, in the case of potatoes, an exception must be made, since the use of seed grown in the East has provfound that certain varieties are much more profit able than others. In our field operations here, no variety of oats has yet been found to surpass
the Banner, although many other varieties have been offered and tried. At other farms of our
system, however, some new varieties of have been found to be considerably superior to the older varieties, as, for instance, Marquis has other advantages over Red Fife and other varieties grown in the West.
The selection of seed from the varieties comstraw, size of plant, and prolificacy of the same, has shown quite marked results on the farm here.
Seed from such selected plants has yielded much as 20 per cent. more than the average run of seed. Variety, selection, change of seed, etc., may Variety, selection, change of seed, etc., may
undoubtedly have some influence upon the average returns, but in my personal experience, ac-
cording to my observations made throughout Canada, and according to the conclusions $I$ am factor making for increase in crop production o ialling of in yield is MOISTURE CONTROL. In other words, the hetter the cultivation of the soil
the greater are the returns likely to be, since cul tivation of the soil means nothing more nor less
than the contren than the control oi soil moisture. Once a good
variety of crop grown has been fixed upon, care should, of course, be taken, year by year, to make a fairly good selection of seed therefrom, and to
see that same is free from weed seeds and impurities. This being done, the farmer may safely
neglect the seed ouestion and devote his energies to the proper cultivation of his soil and to care iul consideration of his rotation. To enter into a discussion of cultural methods and crop rota-
tions would prohably be inopportune. I cannot refrain, however, from urging upon farmers the
inportance of following a short rotation, leaving the fields down to hay or pasture but, a short time. the growing of no grain crop or hoed crop
two years in succession. One vear grain at a two years in succession. One year grain at a
time is enough, and if one wishes to keep his fields in good physical condition, the growing at short intervals of some hoed or cultivated crop.
Our experience here might be summed up in the Our experience here might be summed up in the
sentence or statement, "the shorter the rotation, the "reater the net profit." however much greater
the cost of cultivation and all other expenses, seed included, at the end of the year. The long ro-
tation is the rotation that impoverishes the farm tation is the rotation that impoverishes the farm
and the farmer ; the short rotation, with good
cultivation is and makes, hanpy the farmer.
As indicated athove, I am not a faddist on seed, As indicated a hove, I am not a faddist on seed,
but I must admit that certain precautions are necbut I must, admit that certain precautions are nec-
essary, and that certain points should be observed
in the selection of the seed for certain crops. For instance, we have always found it advantageors buying. We have never had a failure in our
corn crop. due in some measure, at least, to the
quality of seed employed. Undoubterly, the best blan is to buy on the cob and shell at home. can he elimated int the shelling or process. Further, ficiency of seed when planting corn. It may cost a dollar or so more for seed in the year, but it
certainly saves cach year many dollars' worth of silage at the harvest time.
it is also, we find, very important to secure pood root and clover seeds, and to sow a suf-
ficiency of the same. Light seeding of roots and clevers, as well as arasses, are unsatisfactory. The using of poor seed of clovers and grasses is
ruinous. The extra cost is, no doubt, tie detrring influence to heavy seeding and tise use of o sue and compare the results from the different hee will appreciate and never forget the truth
that I hate just stated, that a large supply of
irsi clace soeit is Wrawe crops. When sowing corn in rows, we hcre. When planting in hills, about 20 pounds of
dent and 18 pounds of flint woll be found to be
sufficient. In sowing turnips


THE FARMER'S ADVOCATE

The Closet on the Farm
Editor " The Farmer's Advocate . While the question of the closet or outhcuse is
w one on which delicacy prevents a great deal being said, it is. nevertheless, a vital one, and a care
ful observer cannot but note the extent of carelessness and negligence in regard to the im portantead.
In many instances the farmer has a comfort able house. and his stables and sheds are ideal in every respect; also, his fences, etc., are in perfect ises, as well as a menace to the health of any which contain the stock, and even the sheds which house the farm implements, are warm und carefully boarded, in order to protect their contents from the weather; while the closet, which must
be used every day by the members the family, is too frequently a ramshackle aftair which is tle better than no shetter a a most exposed posi-
Generally, it is also in a mor tion, often minus a door or several ance, with a roof hanging by one corner and sleet, \&like, are whirled mercilessly upon anyone who may ke withthink, the danger of such conditions could not but be apparent. Where adults only are conwithin a warm house, are exposed, if for only a ew minutes, in such a place, they run grave
chances of contracting severe cold, if, indeed, suffering no more dire consequences. minus and the only resort is the stable or shed minus, and the only resort is the stable or shed.
Now, where the male members of the family only are concerned, this may be of small consequence, but the feelings of the female inmates of the house posure. can better be imagined than described. sider that outsiders may rate his standard as a details? Moreoker, this is a condition in which the cost necessary to remedy matters connot be
used as an excuse for neglect. A completelyused as an excuse for neglect. A completely-
furnished lavatory may now be placed in the
home at a very moderate cost; but even this exhome at a very moderate cost; but even this ex-
pense is not necessary, as a few boards and a few sheets of building paper which can be purchase
for 50 cents a roll, coupled with a little use of a


 " hope that these few hints may erse to the grea
profit of a multitude of childrea and others.

## A Positive Help

## 

$\qquad$
mers in Middlosex County sowing an
How
thing useful came of the experiment, corded in these columns.-Editor.]

Likes P. E. Island Seed Oats.
ditor "' The Parmer's Advocate ':
 on the same field, ; and if the home-grown seed
is cleaned, which in all cases it should be, there is no danger of introducing new weed seeds. In
my opinion, if a change is required, we get the best results from Prince Edward Island seed White Russian seems to be the best yielder on
all kinds of soil, but some who have dry, sandy
, with soil have good success with Red Fife, and, as it
kives better-qual ity flour, some will grow it at the sacrifice of a few bushels, as we take our
wheat to mill and receive our own flour. My only trial of new varieties was with Pres-
con, but as I did not get flour of good quality, ton, but as 1 did not get flour of good quality,
stopped blaning the miller, and grew Fife. Ancentive to grow better wheat, as on
for cleaning by receiving better flour.

## In writing

seed wheat Iter flour. ing for smut plays a very important part, as
nothing is so disagreeable as black, foul-smelling dour. In the West, we use the pickler, but her
where only a few acres are sown to wheat,
 substitute. Althoulgh formaldehyde is said to be
the best. I never saw much smut after vitriol the best,
(bluestone)
White Banner oats are the all-round oats for
his country althoumh some his country, although some grow black oats, as
they claim they are best for horses, but the Banher gives the best yields. Some of my neighbors grow a few of the larger-kerneltect ans would not
hibition purposes, but all say they pass over Banner for their main crop. Seed oats are almost all secured on Prince Edward Island, as they seem, to give good sat isfaction. Prince Ed ward Island clover seed is the best we can get, and comes higher in price than Onario sead
Right here a question arises for Westmoreland armers: If they on Prince Edward Island can
trow better seed than Ontario, why can not we, with the same climate and almost the same soil ? Let each farmer sow a piece of land to clover,
without any timothy; then, next year, lot the hildren pull the weeds, and try to get our own clover seed in the future.
Will someone please enlighten us as to the cost of clover mill, as ". A." in articie on alsike Growing timothy is another question. When cradle and scythe, they no doubt thought, if they cratle and scytune then no doubt thought, in ung
could ride around on their binder and bind up their seed, with so little trouble, there would b
a lot exported But now, since the old cradle has gone, our farmers are buying almost all thei
timothy seed While we can grow almost all kinds of grain, our roots and potatoes must be our chief boast.
Nowhere have I seen as good potatoes as are grown along the shores of New 'Brunswick and
Prince Edward I Island, both in quality and in quantity, We have large crops, almost entirely free from scab. The McIntyre is the favorite for that it staps solid and good in summer, when other potatoes, get soft and strong, The Silver
Dollar is the best yielder, though the deep evea make it less desirable for a table potato. The old Carly Rose is still my Pavorite early potato, though Mountain, and stray Beauty, A neighbor has
Mrown one kind of potato (a large, deepeyed red)
 every year, and he aways un out in our soil. As
Potatooes do not sem to run out in
experience has taught me that there is no feed any better than boiled potatoes and barley chop for
iattening turkeys and hoss, the potato holds
ind iattening turkeys estimation; and when it sellss
high place in my er
for 50 cents a bushel, at now, the farmer may well take notice hhout his crop. We found Carman
No. A yery poor-quality potato, as it was so
wet. A new variety was developed a few years ago from seed, and is yaining popularity very fast.
Some of ouror ontario farmers lould do worse
than try this new potato. It is known as Tomthan try this new potato. It is known as the man who started it.
mie T. Trom then
In the solection on garden seed it has always
 sible for myself. so in the fall, I chose the
inestshapeal turrips, beets, etc., and put in cellar
lest that
 We in Westmoreland hnow very ntute about seed
corne as we do not frow much. It chiefly
grown by farmers. who have large dairy herds, an fed to covss when pastures are short. It is sel-
flom ripened here, as our springs are too late, sunmer too damp and cool, and it takes more
Inbor than the uverace farmer has time to give Inoor than the average farmer has time to give
an absolute necessity, the wet seasons of tata when pasture is good and corn is poor, is making
the corn less every year. Brunswick farmers should grow, more seed of their own, and by puttin! the money they spend in buy-
ing imporeul seedi into labor of cleaning, growing
ind and gatheringe, I believe we would have bot
seed, fewer weeds, and, therefore, hetter crops. spected seeds, even at a few cents' extra cost. [Note.-The clover hullers used in Ontario are moderately expensive machines, and are run with
the steari engines used for threshing grain, as hey require considerable power. An idea of rices may (ent ire of manufacturers: Huller with ordinary carriers 12 to 16 feet long, $\$ 500$ with stacker, $\$ 750$; with self-feeder, $\$ 200$ extra.
This company makes only one size of machine,

## Ordering Seed Through the

 Farmers' Institute.Corn has proved such a failure here on the Isers grow it, and half of those only on a veryshat the chief reason of the failure here in corn
that solthat the it is planted too deeply. Just what effecta change of seed has on the yield it is difficult tosay, yet Ifind it generally pays well to change
sced irequently, although I contend, if a farmeris particular with his own seed to keep it pureand well cleaned, separating all somal a and imper-

$$
\begin{aligned}
& \text { fect prains from that which he intend to sow } \\
& \text { for seed, } \text {, cannot see any necessity for a chang }
\end{aligned}
$$

$$
\begin{aligned}
& \text { chane of seed, it is best to get that seed from a } \\
& \text { farmer as near his own land as possible. }
\end{aligned}
$$

prove this, from experience, I may say that grain

$$
\begin{aligned}
& \text { hrought here from Ontario and sown will produce } \\
& \text { bron }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a ver infirior crop the first year, bu } \\
& \text { prove as the grain becomes acclimated. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I cannot see much advantage in introducing to } \\
& \text { In any new varieties. } \\
& \text { me have now as good as }
\end{aligned}
$$

$$
\begin{aligned}
& \text { lection of the best of the varieteres now grown to } \\
& \text { quality can be kept up to a high stand } \\
& \text { quar }
\end{aligned}
$$

$$
\begin{aligned}
& \text { grain, but a person only has to visit our annual } \\
& \text { seed fair to see distinct improvement from hand }
\end{aligned}
$$ To my mind tillage plays a most important part in regard to the yield of a crop. It is said onat tillage is manure. Moisture is also manure,

that oil. With a root or corn crop on good rich soil, without sufficient tillage, we will have an unsatisfactory crop. On the other hand, the same yop, on a full crop, particularly in a dry season. The land on which potatoes, turnips and corn are grown needs the surface soil stirred frequently hot sun from forming a crust on the surface soil. With grain crops, the conditions for tillage are quite different. It is highly important to have a in seding, we should have an aim, either to produce a fair crop of grain and secure a good catch
of clover for a good crop of hay the noxt of cover for a good crop or hay the next year
or to seel hearier to grain, thus producing
better yield, at the expense better yield, at the expense of the clover crop
the following year it being smot the following year, it being smothered by the
thick grain, and the plants that do get a star
being being too weak and puny to stand the long sum-
mer drouth. I Itid the disk harrow an excellent
implement on the farm to work implement on the farm to work up a good seed-
bed, but I find the tendency is to use only two bed, but Ifind the tendency is to use only two
horses on it this machine needs three horses,
with a 160 -pound man on it; ; pull back the lever with a and opund man on it, pull back the tever who plow their fields in lands, I find this harrow rows. For levelling, I prefer the in-throw style.
As very littlo sead corn is wed here, we are exporters, seed corn is used here, and as
rathan importers, of sed
rainer principally oats, the question of securing zrain, principally oats, the question of securing,
supplies of seed grain does not trouble us; but, with regard to timothy and clover seeds, our farmers find the best way of securing seed is through
our local Institutes clubbing together and ordering from some reliable seed firm. I might say
just here hist here that, before farmers took this matter in
hand we wee imposed upon, and the Maritime provinces were simply a dumping ground where the seedsmen disposed of all their trash and weed seeds, and it will now require years of persistent
toil to ril our farms of the baid weds that have
ont by far too firm a foothold here. And to remedy this evil we have now hot a law, the
seed Control Act. and all seed now offered be sale by our merchants and dealers has first to
be inspected by the Government official: and now the farmer knows just what per cent. of weed
seeds he is buyins the name or names such weed seeds ward Island to tuke two crons of oats in succession from the same field, and either seed out hay on the oat stubes, turnips and mangels-and possibly a little corn. This is generally followed by wheat and seeded out to hay. Hay is cut one or two years; pasture about the same, aifent then begin over again. But some have a : Sod,
rotation from this already given, as follows: oats, roots (manured), wheat, clover, and, instead of pasturing the second crop of clover, plow it
under for manure, adding humus to the soil; then ander for manure, adding hamus But I would not, oats or somd circumstances, take more than two
under any crops of oats in succession from for roots the fol-
and unless the field is intended for and
lowing year. I would rather seed oats on sod, ond crop of oats. This has been our aim for number of years, cither to roots or both Th crop of oats, or manure for roots, or hich do you
ruestion might here be asked, "On which do you prefer to grow your root crop, on bod or stub hle ?" I prefer a stubble field every time. While better, in sod, turnips will not, and the extra lator in cultivating and keeping the sod fied
clean. especially if there is couch grass or weeds in it, will not pay for the extra potatoes grown turnips do much better on stubble land; neve krow turnins the second year on the same land.

Keep Sap Cool; Boil Fast; Sell Quickly.
Ealtor we fine maple bush of twent and tap about a thousand trees, if we can ge help enough. We use a modern everator pan and spouts, and a he stred gallons and the gath tank holds sixteen hundred gallons, and the gat in a day with sap from 700 trees. We make 20 gallons a day if we have sap enough to keep at $\$ 1.50$ a gallon, and we can't make enough. We gathcr the sap every day, and sometime. twice a day, if necessary. Out anveray is littler higher than the storage the it is on the north side of suyar-house, so as to keep the sal as cool as possible. It is very important to boil flavor an'l bright color. We provide a year's supply of wood ahead in ar big woonshed
nished with a track and car, so as to carry the wood right where we want it weather is favor-
We alwass start as soon as wer ble, with two men and a team, and all other hg order, then one boils constantly, two gather with team, and it keeps me busy to sell, so wee
never have more syrup at home than from a day's boiling; the people get the syrup fresh and pure. ae use a relt strainer. so no particle of er to in-
we asses into syrup.
We also use a teater. to

Sound Advice on Soil and Seed. Preliminary to a discussion on seeds, address
ing an audience on the M. .. R. Better-farming
Special, Anson Groh, of Waterlon Count., Ont.. Special, Anson Groh, of waterloo county, Ont.. aving stress upon drainage, fertility and tillage mon the start it gets tice rech targety depends and a lamb, a calf, or a mav to warm, it mult be well drained. It takes

THE FARMiER'S ADVOCATE


Salt and Land Plaster for Barley
 Is whlue as a fertilizer for barley, whic other
disholioved in its oflicace has been shown to be an


Fresh vs. Rotted Manure

THE DAIRY.

## From Cow to Consumer

 Hoose Jaw, Sask., which should have special interest for dairy farmers in the Eastern crovwatched by them. This is an up-to-date dairy business, on a 480 -acre farm three miles out o he city. At prcsent there are 90 cows in the nerd, but it is intended that the number shall be In the management of this dairy herd, there are several features of interest, but the one whose working out wistern milk producers is that the soiling system is to be practiced for summer
feeding date 120 cows, the animals will stay winter and summer, except that they will be let out occasion-
ally in winter, and more frequently in summer, tor exercise. A
this purpose.
The company was organized in the spring of

- 910 , but the business of putting up buildings, :910, but the and otherwise preparing for carry ing on a city milk trade, occupied the summer
season, so that it is only a few months since season, so that ity is and For the present win ter, the feed consists principally of oat sheaves, middlings and "red dog ", (low-grade flour) mixed in the proportion of three parts of bran
and middlings to one of flour. For summer feedand middlings to one of aur. peas, corn, alfalfa etc.. Will be grown. These will be cut green and
hauled into the barn. It is the intention to hauled into the barn. It is the intention to Many Eastern dairymen practice a partial scil ing system profitably at present, and many others are in a convinced that the theory wili really work out in practice, to adopt be successful, there seems every reason to believe
that farther East, where labor is cheaper and land less plentiful, soiling nught Mr. Boyd, the prime mover in this westation milk-cupply company, has hit upon a ventiation svstem adapted
situation. Fresh air enters from the hay chutes in the ceiling above the feeding alleys, and the walls, starting at the ceiling, and extending some outlets aro turned in towards the roof, so that the wind may hlow from any direction
checking the upward current. The present herd was purchased in Wisconsin
and Ontario, and consists of Jersevs and Holsteins in almost equal numbers. The herd bull
is Holstein. and comes from a noted milking familv. Selecting heifer calves from the best milkers, and weighing each cow's milk daily, are the means emploved to bring the herd up to a higher average "Cleanliness"" is to be the watchword all through the process of procucing milk on the
farm. Fach man has firtern cows to look after. and each cow is well hrushed and curried every
dlay. The milk is drawn into sanitary milk pails, house. Fere it is cooled at once to a tempera-
ture of from 40 to 45 dearees. nut into a bottlethen into a cool room, ready for delixery. and city are willing to ne nav for quarite in milk, en cents a quart. and that the demand has been

I caw a query about creamy buttermilk by A. F. H.," and if you will allow my experience. we wot a separator I had that trouble. and found Wut cream in cream can for a day before churning uld not very much, and cream in fhimed in the latter part of the after evening thefore. I I makie a good deal of butter

-     -         -             -                 - 


## THE FARMER'S ADVOCATE

## Lincoln Red Hepd Buill Up by Milk Records

Attention has been arawn before the marks, owned by John Evens, of Burton, England. Mr. Evens began weighing the milk from his cows as far back as
since, so the extra work must have paid. In the first year of these averaged 740 gallons. cows the past year, 51 cows were in the herd,
During the ner cow. This is a high average, and far above the general average of the country. Mr. Evens highest record was in last year's records, the highest individual yield was 12,213 pounds. This

## 

 the year. 'To show how well Mr. Evens' system enables hirn to breed from heavy milkers, it maybe noted that 12 of the cows were first calvers, milk for the year. This emphasizes the fact which has been so often insisted upon, that the keeping of systensatio prefarde milkers, and dairymate the "boarders," which are the bane o elimmany dairy herds.
so maen writer has frequently seen Mr. Evens' cows
The at leading shows, and always they for the breed upon to take the leading prizes paid Mr. Even well, and would pay every other dairyman o
and over again for the extra labor.
F. DEWHIRST.

## Co-operative Milk Depots in

 England.In a country like England, where the grea bulk of the milk produced is sold directly for use
in cities and towns, the question of the disposal
dither of the surplus milk during the heavy summer flow is a serious onc. It is not an easy matter to
solve. as the surplus of an individual farmer is solve. large enough to warrant him putting in not large en cheese making apparatus. In the win
buttur or ter time there is no surplus
rather the opposite rather the opposite be provided, it is hoped, by
A solution may
me co-operative milk depots, and the farmers of win
shire have combined and erected a fine factory,
costing costing $\dot{L} 10,000$, at Chipperham. The factory
can handle 10,000 pounds of milk per day. Instead of iarmers shipping milk individually to the
towns, it will go to the central plant, and be liandled in the most approved fashion, and then son, any milk not disposed of will be made into better shape from it central depot, and middle-
nien's prolits will be eliminated-and these cer tainly take a considerable share of the profits.
As to the future, it is largely a loyalty annongst those contributing milk. doubt efforts will be made by the present by tem
to prevent the success of the new concern by pay.
pay oflering more money than the factory wh
F. DEWiHIRST.

Allows Sale of Skim Milk and Buttermilk.

 Suner. of the Good Cheese Factories. lerrel

## APIARY.

The Habitation of the Bee

## Honeyheos cannot ive solitary life Essen

 tially social in their habits, they live together in colonies or families composed of the mother queen and her chaldren. Each colony occuples an en closed home called a "hive." This may be a natural cavity in tree, rock, or other place, which ing which contriving man has made to keep them par him. In either case they make their own interior furnishing. The artificial hive may hav frames and be the bees themselves. This


White Lake Cheese Factory.

- the comb they use for the storing of provisions
and as cradles for the young.
COMB.
for more. In temperate climates, cool nights delay the secretion and manipulation of wax and increase the loss of time, while the nectar in the
blossoms is wasting for want of being gathered. blossoms is was the owner of a maple grove waited
It is as though
until sap weather in spring, then sent his men to nanufacture wooden buckets for the sap while he sriles onto the ground. Add to this the discontent caused by the delay in the hive, and the ercrowding of fielders waiting to unioad, yreat y increasing the tendency toney production is so much more expensive than extracted honey, when the empty combs are returned the hives an be It is valuable to note, also, the conditions These may be roughly classilied or followe f: start building worker comb.

2. So long as the queen's egg-laying, keeps pace with the comb-building, worker cells are 3. As soon as the queen lags behind and is
unahle to deposit an egg in each cell as it is unahle to deposit an egg in each cell as it is
built, the workers change over to the building of drone cells. But if they get these filled with
honey, so that the queen overtakes them again, they may change back into the making of worker
comb. This explains how it is we find such a mixno artificial foundation has been used. any part of the comb is removed, the bees nearly alwoys build drone comb. It will be seen by these general statements that the workers seem to show deference to the
wishes of the queen, for they build worker comb eggs ; otherwise, they
OMB FOUNDATION

A study of these statements; coupled with the fact that drones are undesirable in honey-produc ing colonies, will show that it is not practical un depend on the hees to buita the ther would be altogether too much drone comb 'and too many drones. This difficulty ha been overcome by the invention of $J$ ohannes Meh ring, of Germany, of a process of manufacturing
an artificial comb foundation which bees will read ily accept and build into nice straight, all-worker comb. It is simply pure beeswax rolled in thin each side. These sheets are placed in the hives and used by the workers as foundation of comb. home can be bought, considered more prof-
table to send the wax to a specialist o be made up at so Except in certain special cases, it is lways an advantage sheets of foundation sheets of foundation for comb-building, into build it to suit
themselves. By its themselves. By its
use, every comb is use, every comb as a
built straight as
board, and is interboard, and is inter-
changeable with every changeable with every
other comb in the apiary. The combs
are entirely worker are entirely worker comb, with the ex-
ception of occasional drone cells, the bees will work in at edges
or corners. All the or corners. All the
wax produced by the
bees and gathered by bees and gathered by
the apiarist from scraps, old combs, or
cuppings, can be recuppings, can be re-
turned to the bees in walls of the same material. Wach cell of the this shape, and can be rencered a crowdell arainst it, the sides flatten, and it be- . The apiary business is devolving more and
crom inch, and drone cells are about one-fourth inch in more crood has played its part, for the beekeepe diameter. The same comb may be built partly tion down the middle of the comb, formed by the bottoms of the cells on each side, is called the The cost of comb-building depends on the time and material used Bees only hind teing handled in the
ecline to prepare Not only every apiarist, but every student of t only every apiarist, but every student of
al history, will be interested in Mr. Pettit's natural history, winne interested in Mr. Pette on
uticles on the first one, on
the
$54+2=4=4$

## POULTRY

## Soft-shelled Eggs.

Fditor "The Farmer's Advocate":

1. Hens have been laying since early in January. Lately, many of the eggs hav. have lost a great so much so that they break; h coarse sand, also many that way. Keep lime and coarse sam, barley, wheat, corn, oats, alfalfa and clover, steamed one day; boiled potatoes, wangels hung up chop, next day. around pen; plenty or ance a day. Is there anything I could give them to prevent eggs being so ? Do not feed heavy.
so ? Do not feed heary.
2. Also, a number seem to get powerless, seem dumpy, cannot get on roost, sit around for a few days, then get betence of information as to variety of fowls and their age, I surmise that the of
are one oi the utility class. If so, the cause of are one oi the utility class.
the eggs with soft shells is an overfat condition
Themedy is to the eggs with solch laid them. The remedy is to
of the fowls which of tuce the rations, dropping the corn altogether.
The weather is becoming too springlike for corn,
The which should be very sparingly used, inty of green
the case of heavy breeds. Give plenty the case of heavy breeds. the litter on the floor, to incite to exercise, which may have been too little indulged in. The steamed
alfalfa will do splendidly, if hens will eat it; if alfalfa will do splendidy, hens have been too well treated.
treated.
2
The trouble was due to inflammation of the lower intestines, due to a long-continued feeding
of the samn diet, without change, and mayhap of the samn diet, without change, Change
the too generous feeding of the same. Chang the too generous feeding ous hens run outside. It is quite possible that when the rations are re-
duce the fowls may stop laying. However, they duced, the fowls may stop laying. However, the

Prof. Graham's New Poultry House Illustrated on this page is the style of poultry house recio Arricultural College
the Ontario Agricultural college. ${ }^{\frac{1}{3}}$ feet high at
This house is 20 feet square, the north side, and $3 \frac{1}{\frac{1}{2}}$ feet at the south, and rough lumber, and the cracks are battened. The feet wide the entire length of the building (Fig. 1). A window, $4 \times 5$ feet, is placed in the west end (Fig. 2), and the door is in . The roosts are scantling, and consist of three parallel rows running along the
north side, about two feet from the ground (Fig. north side, about two feet from the ground (raw
4). Litter, consisting of straw and shavings, is kept on the ground for the hens to scratch in.
There has been a flock of 100 hens of mixed breeding, such as is found on the average farm in Ontario, in this house all winter. These hens have
rarely shown any signs of discomfort, and have rarely shown any signs or
given results which compared very favorably with
those obtained from other pens. The lowest temperature recorded on the outside of the pen was
15 degrees below zero, while it fell to 3 degrees below inside the pen, and the hens aid that only on some three or four days did they seem at alt
too cold. For such extreme days, he thousht it might be well to have a curtain which could be
dropied oner the front; but if this was not well looked anter, the house wo house completed is
without it. The cost of the ho
about $\$ 60$. The house is remarkably free from drafts, which are so disastrous to poultry.
The followine is the number of egys produced sumed by them:
 Month. laid. shem. hames wats Rence Nam an in in


 4- -2.42


ground and work it in with the cultivator
disk harrow. If there is no manure available

 for that, is plowed under as shas
From fifteen to twenty two-horse loads per acre From fifteen to twenty two-horse loads per acre
are applied. Scarcely anything has been done as yet with artificial fertilizers.
Before sowing, which is done as early as the
cound is dry enough to work well, by means of ground is dry enough to work well, by means of
cultivator, disk and harrow, the surface is brought cultivator, disk and harrow, the surface is brought
to a very fine tilth, and then levelled and smoothed with a plank float.
Seed is sown at the rate of four pounds per Seed is sown at the rate of four pounds per
The depth aimed at is one inch, and the acre. The dirteen or fourteen inches apart. In three days or less after sowing the wire
weeder is started. This implement can be best
described by saying that it almost exactly reweeter is started.
described by saying that it almost exactly re-
sembles an ordinary breed weeder, except that the sembles an ordinary Breed weeder, except that the
teeth are of wire, about No. 9 thickness, placed teeth are of wire, about No. Some use a wire weeder eight
an inch apart.
or ten feet in width, hauled by a horse, but more or ten feet in width, have them but four feet wide, attached to the handles of a wheeled hoe, and
propelled by hand. This implement is used propelled by hand. This implement is used
every few days until the plants are about four every high. Its use is discontinued by some for
inches his a few days after the loops or they straighten out. pear above the weeder is run chiefly across the rows, but it is also run anglewise, lengthwise, and, indeed,
" any old way." The teeth being so find, scarcely any damage is done to the plants, and the labor of weeding is lessened or the cultivator, as the
The wheeled hoe, or Scotland men call it, is next started. The double wheeled style, straddling the row, is preferred for the first two or three cultivatings; afterwards, a
single-wheel implement, working between wws, is single-wheel implement, working between w.ws, is
used. At the first cultivating, the knives are set only three-fourths of an inch apart, if the rows are straight and the man careful, thus leaving very little weeding to be done by hand. The
more thoroughzoing farmers like to have the more thoroughroing farmers
onions hand weeded three times. Such men also practice thinning to a distance of two to two
pand a half inches apart. Thinning is done at the time of the frrst weeding, the plants not being knife. Wheel hoeing between rows is continued until the tops interfere and the ground becomes filled with reatifully clean.
When the crop begins to ripen, if ripening is uneven, an empty barrel is rolled over the field, uneven, a down the tops of two rows at a time.
breaking,
Harvesting, which comes next, is begun by another use of the two-wheel cultivator, but with the douhle knives taken off, and a single strong knife put, in, instead. This knife is the row of to go deepest under
onions. and to rise out of the ground a few inched
on leaves the onions on either side or apparenty undist cut and bulbs loosened, so that drying off begins at once. After a few days, six,
eight or even twelve rows are raked into a windlight or even an ordinary wooden rake, with extra teeth inserted, being used.
Topping is sometimes done in the field before the onions are gathered up, but more generally, perhaps, they are taken into the
dry, and topped when convenient. So far, this operation has been done by hand, the top being
either pulled off or cut off with a knife. A power either pulled off or cut off with a knite. A powe-
topper, driven by a gasoline engine, the whole being mounted on a wagon, so that it can be driven between the windrows, has been tried, but so far has proved a failure.
In the Scotland district it is the practice to grow onions on the same field year after year. been grown for twenty years in succession, a full
to coat of manure being applied each year, of course.
A feeling is growing, however, that that practice A feeling is growing, however, that that practios
has been overdone. Fred Smith, one of the most expert growers, helieves that there should be at leest two fields, used alternately. He cited an
instance of a crop being attacked by smut, which instance of a crop being attacked by smut, which
he believeri was due to onions having been grown he believeri was due to onions having been grown
exclusively for too great a length of time. exclusively for toen a good deal of trouble with
There has been onion seeci being of poor quality. In the past it has been procured principally from seed merchants
in our own cities, though a good deal has been in our own cities, though a good deal has beo
imported of late years from Ohio. The talk now
What little is of growers raising their own seed. What little has been done in this line gives great encourage-
ment to go further. Home-grown seed, on being
Honde ment to go further. Home-grown seed, on being
tested, showed 99 per cent. that germinated, while purchased seed has gone as low as 30 per cent. in come instances. The year 1911
large increase onges of the onion maggot were especialcravere heing destroved; but this is unusual, as there is seldom even 25 per cent. of a loss from
manerot. In 1910 the maggot did no damage to speak of. Some growers try to tempt the maghes
ante away from the onions by sowing radishes

GARDEN
Onion-growing, Scotland, Ont.

THE FARMER'S ADVOCATE

For ordinary work, the light, swivel-bladed work, and had ideas of rental value approaching pruning saws are excellent. Long-handled prun- the rate we paid, namely, $\$ 33$ ner acre. Now rule make close, smooth cuts. A good hand clipper is indiajensable.
In heading back a young tree, it is frequently desirable to cut to a particular bud, for the purpose of giving the young shoot the proper direc-
tion of growth. If this pruning is done early in the season. it is well not to cut close to the bud. Leave a stub, and remove the same at a subse-
quent pruning. If growth is about to start when quent pruning. If growth is about to start when
the cut is made, no harm will be done by cutting the cut is made, no harm will be done by cutting
close, but if drying-out takes place from the cut end of the branch before growth begins, the bud s likely t Pruning to increase vigor of growth may be necessary in the case of young sizees, can be best se-
cases the desired increase in sitan
cured by cultivation or fertilizing, or both. Wincured by cultivation or fertilizing, or both. Wird
ter pruning of young trees should not be carried ter pruning or young arseary in order to secure
farther than is necessary
proper form. It must be borne in mind that


The proper angle for mak- ing the cut. Leaves a small-

er wound, which heals more Impro
a lakese
ta takes.
heal. Lat. Leaves strong growth is opposed to fruit-bearing, severe winter pruning consequently tends to delay the fruiting period. As a ruse, early beale means short life, and, while it is not advisably not allow trees to bear too earis inases, to delay fruit bearing longer than is necessary. Spring pruning, as ordinariy practiced, doubtedly has the effect ol on have the effect of
physical vigor. It may also haver causing fruit to set. A well-cared-for tree nia produce too many fruit buds, in which case ex
large part of the energy of the tree may be expended in the seemingly A tree may actually exhaust itseli in this way to such an extent that setting of fruit is prevented. It is not generaty
recognized that large quantities of energy, in the recognized that, are given off in the process of un-
form of heat, folding leaves and blossoms, but observations have proven that such is the case. A thermometer
placed in the center of a tree in. full bloom will placed in the center of a tree in and higher than in calm weather register appreciaduantity of heat
one outside of the tree. The quand produced may in some cases be sufficient to pre-
vent frost injury to blossoms, or to confine the injury to the exterior portions of the tree. Certain Alpine plants are known to grow and bloom under the snow. The heat of growth is sufficient
 in spite of their icy environment. food material within their tissues, upon which they draw material (starch and sugar) is chemical panied by the evolution of heat. In certain
cases, therefore, spring pruning may mean simply cases, therefore, spring pruning may mean simply
the conservation of enery., and the tree may hav
onough food material left after blooming to en enoug
able
are fr
$\qquad$
Showed Up the Value of Orchards



 a quartette of wide-a
> n about 75 acres of orchartls . ave have alreaty been closed. Wher phan in rate of 810 to 815 per are per annu
the orchards being inisested lliknty
alue their orchards at an increased rate when rent and improve them, would not, if leit to themselves. make any more out of their Mre MrLenney admits that our articles were probably the
means of interesting him and his partners in the means of interesting thes are undertaking, so that, on he whole, they are probably under obligations

## Exporting Tomatoes Unprofitalole

# Interest in the question of the possibility of 

 rofitable trade being done in supplying Canadianomatoes to the markets of Great Britain has ever quite died out, and lately shows signs of It will be remembered that in 1897 a considerable quantity of tender fruits, including tomatoes,
was shipped by the Dairy and Cold-storage Branch was shipped by the Dairy and Cold-storage Bran London, Liverpool and Glasgow, with a view
testing the markets and determining the possibil testing the markets and determining the possibilifies of the trade. tomatoes could be landed, even with the facilities then available, in fairly good condition. Since that time, considerable progress has been mude in the knowlege pertaining to refrigeration,
tender fruit, and there would seem to be no diffi-
culty at present in placing Canadian tomatoes of culty at present in placing Canadian tomatoes of sound, marketable condition. But are the prices Canadian supply is available Co make shipments profitable? A satisfactory answer cannot time, there does not appear to be a very promising opening for Canadian tomatoes in
Great Britain. While it is true that English and Scotch to cell at high prices the greater part of the season it is to be remembered that abundant supplies come in from other countries. The Channel is which continues throughout the year: From No vember to June, greenhouse fruit; from July t October, grown outside. The season for Canar.
Island tomatoes is from November to May. But 1sland tomatoas is from November to May, besides these two sources of supply, there are Holland, Denmark and Spain, nearly all of whic come in during September and October, and, consequence. the price
Canadian tomatoes, if exported, would lan just when competition is keenest and prices at th lowest point. They would have to crance, selling a from 2 cents to $3 \frac{1}{2}$ cents per pound. At the higher figure, a 7 -pound case of Ontario tomatoes would make 25 cents. It is assumed they would have to be packed in single-layer cases holding from six to eight pounds each. On these, th Montreal, 4c. per case ; ocean ireight, 9 or 10
cents ; broker's charges for landing, delivering etc. 5 cents; commission, 1 cent -a total, say
of 19 cents per case. This leaves net proceed f 6 cents, f.o.b., packing-b It would seem. conciudes the circular issued by A. Ruddrck, Dairy and Cold-storage Commis
$\qquad$
THE FARM BULLETIN.
" Stuck" by Reciprocity.

The wheat prowers of the Northwest way
tittle more for their wheat for a short at litle more for their wheat The a shor anadian wheat
but even that is doubful. The Canal
will be milled in the States, instead of Can da, and exported from the States, and the Canallian armer will lobe the whe iruit growers will certainly
The vegetable and be hurt. Not only the United States, but all the nations in the favored nations treaty, will be able to un hile we will have to pay duty on our prod-
free, while uce going into all countries but the States? In
the face of all this, you say that reciprocity will thenefit the Canadian farmer. All I have to say is this, that, if reciprocicy goed and plenty-and
dian farmers will get stuck good serve therm right, too. The Canadian farmer is better off to-day than he has ever been, and this
has not been brought about by free trade, but by
F. C. PARKER. has not been brought about by free trace, but by
F. C. C. PARKER. Standing Field Crop, Sheaf and Grain Competitions
$r$ placed the estimates a grant of $\$ 7,500$ for Standing ield-crop Competitions, to be conducted under First.-Competition in each society limited to one crop. Field to be not less than 5 or mor mum plot to be one acre. Any staple crop produced for seed in Ontario may be chosen, such as spring or fall wheat, white oats, barley, rye, Latoes or beans
Second.-omly members of an Agricultural So and fields must not he more than fifteen miles
om headquarters. entering competition mus Third.-Societies entering competion not later than May 1 st Not less than ten entries in any Society accepted, plying.
Fourth.-Secretaries must forward all entries on or before May 25 th.
rifth...An entry fee of not more than $\$ 1.00$ may be charged by Directors of Societies. Each $\$ 12, \$ 10, \$ 8$ and $\$ 5$. Of this amount, the So-
$\$ 120$, 12 a grant from the Government.
For the first, second and third prizewinners in field competitions, there is a chance of winning in a Sheaf Exhibit, and also in exhibit of twobushel sacks of grain, at the Canadian National
Exhibition, Toronto. For these exhibits, the Province has been divided into three districts-
North, East, and West-and to each the same amount of prize-money is offered. First, second and third prizes are to be given in both exhibits,
for fall wheat, spring wheat, white oats and barTey Total prizes offered in sheaf exhibit, $\$ 228$; in exhibit of cleaned grain, $\$ 288$, Fairs, first, s.c-
At Ottawa and Guelph Winter ond and third prizewinners in field competition al seed-grain competition. All entries for sheaf and grain exhibits to be made to supt. I. Lockie Wilson. Parliament

o Better the Rural School. cural school board, in Ontario, should at once se-

cure, if they have not done so, from Prof. S. B.

The Sayings and Doings of "Donald Ban.
The Boy on the Farm-Farm vs Editor "The Farmer's Advocate":

Why weren't you in the village to-day ?' Donald Ban asked his son. He himself had just returned with laughter.

There was nothing to take me down there that I know of," replied his son.
" O, John, John! I am afraid you are neg lecting your opportunities as a farmer. You are not getting out of this
it."' " Why, what was

Why, what was going on ? there to-day, and you were not with them. I am
" Well was the matter? "Well, as nearly as I could make out, they
were having a meeting of the Kickers' Club or a
gathering of the Sore and Sorry Society. Any-
And and and and gathering of a new feature of country life, and
Way, it was
you were not taking part in it." John simply grinned and awaited develop-
ments. He knew that his father could not hold himself in very long. After feeding and
ing the old horse, Donald Ban resumed :
" All the prosperous young farmers in the country were there, and a few of the ore mave
like Bill Hyse and AI Ketchum. They were havlike Bill Hyse in the towh hall to make arrange-
ing a meeting in the
ments for hiring a good lawyer to fight the payment of their notes in the last stock game they got cauld have been worth the twenty-five dollars it cost to be a voting member,
been fine to listen to the talk.; "I am not sure, but I think it was something like a scheme for canning the waste sunshing,
Ontario and shipping it to the Old Country Ontario and shipping it
be used in scattering the fogs. The main thing be used in scattering the
about it was that it pay thirty per cent. dividends, and every farmer would have a canning
plant on his own farm. It is a funny thing to plant on farmers who save their money penny by penny, and wouldn't take a mortage at five per
cent. on the Bank of England without consulting a lawyer, will snap at any get-rich-quick schemer
that offers them thirty per cent. The promoter who goes around cates of that finds no trouble exchanging them for old-fashioned, handi-made ne country," as good as gold in any ${ }^{\text {Didn't you ever get caught, father." }}$
"Not since the stock game began. I cut my eye-teeth on what they used to call "Picter-ess
kwee Canad.," lightning-rods and tin squirtguns that were sold for force-pumps. I signed
one order for a force-pump, and it turned out to be an order for a crate of them. They sent me
thirty-six, and if you ever happen to be digging in the west corner of the barnyard, you may ind thirty-five of them, unless they are all $\begin{aligned} & \text { away by this time. I, knew I was caught, and } \\ & \text { and }\end{aligned}$ didn't squeal about it." great listening to those
"I tell you it was gey were
fellows at the post office to-day. They will fellows at the post office to-day. with fur col-
mostly fine-looking young fellows,
lars on their orercoats, and they talked loud about their troubles, as if they were business men spread out their shoulders, and talked about what
they would do to the agent if they ever caught him. I tell you it is a great thing to have whiskers like mine. You can listen to talk like
that without letting the fellows see that you are ". But, say, that gent must have been a pretty
slick one. AI Ketchum was telling how he was
miking
"Bill Hyse felt particularly sore. He had
started in by making up his mind that he would
have nothing to do with the scheme. He listened while the agent worked him up on his favorite subject, Shropshire sheep. They discussed the
best time in the winter for shearing them so that best time in the winter for shearing them so thow-
they would have the right kind of fleeces at showtime, and how to plump them just before they
were to be examined by the judges. Even when were to be examined-by the other weak point-and he switched to hens-Bill's other weak point-ans
told him that the ink the Chinese laundrymen use is better than any other kind for touching ap feathers that are off-color on Brahmas, Bill kept
on hardening his heart. But after the man left, on hardening his heart. But after the man leve got to thinking that he had thrown away a good
chance, and that night he went to the village chance, and that night he went to the vefore him, he had and looked him up. Get a nice certificate that he kent where he could take a look at it once in a
while, and even give the children a peep at it when Every one of the fellows had much the same kind of a story to tell. The agent had talked to them all on their hobbies, and made them swell out their chests and feel important, Judg
ing from what I heard, he must have been the ing from what I heard, he must have been tne wrong, or the editor of a farm paper who had
gone in for high finance." "If he had come here and told you a few
good stories, he would have got you, too," said $\stackrel{\text { goo }}{J}$ Perhaps so, but I have had so much fun with I have a bad name among fellows of that class. Someone must have to ever came after me." pedlars go by without calling to see you." pedlars "Now, don't start an argument about that,"
said Donald Ban, indignantly. "I have been taking care of my own health for the last fifty years, well as any doctor:" few grunts and grows, original theme.
'" I'm sure I I don't know what has got into the
Ihere isn't a farm in this part farmers, anyway. There isn't a farm in this part by needed improvements. They could re-invest
their profits in their land for many a year to come, and it would yield them many times what they can get out of it in the banks or in speculations. never fail to yield a good return on the ings never fail to yie a in a man is working his farm
money put in them if a man
as he should. Besides, when he invests his money as he should. he knows where it is. All the good investments in bush capital to control the whole thing from the start. The small investor cale, count himself lucky if he ever gets out whole,
leave alone making dividends. As far as I can leave alone making dividends. As far as way of
see, the stock investments that come the wre gold see, the stock investmine whether they are gold
us farmers are all alike, was
nines or industrial enterprises. Mark Twain deinines or industrial enterprises. Mark Twain de
scribed a mine as "A hole in the ground owned scribed a mine as, And a modern corporation has by a damner liar,' a body of men wholly surrounded by water.' We farmers need have nothing to do
with either so long as we have land that can be with either so long as we have cand thas now,
worked up to many times the value it has But if a man feels that he must invest, let a rea put his money in something sure that pays a rea sonable interest. A lawyer once told ne that
believe that he was right, that no investment the beleve tover five per cent. is really safe. Whe yielas over to go after more, you are speculating
you begin
and if you put your money into anything tha and if you put your money into anything tent., you are almost sure to
offers over ten per cent lose. Yet people grab at stock in scent., or eve
prophesy twenty-five or thirty per cer more. But there is no use tatho sort of thing
it. People have always done that sume it. People have they alway will, and the funny
e and I suppose the peole who go in for such
e thing is that the pave fool schemes the quickest are hardest and have saved it earned their monily. Still, John, I am sorry that you were not with the felly ins life would be good
day. Such a lesson early for you, and 1 am not sure but som good. It
fleecincs that farmers get do them fleecings
gets thern together to talk things over, and clubbinc together to fight swind ves of co-operation. in time teach a funny world we live in." He .igho ! It's a Heacheupon he put on his glasses and began to
Whereur read the flaring advertisements in his favorite
daily, which offered just such stocks as he was condemning; and, in all probability, he will keep
on reading them till some fine morning he sees on reading them appeals to him as being special
something that
and safe, and he will proceed to lose some money,

## I have seen so many articles in your paper egarding the extraordinary chances of the boy on

 he farm, and but lately have seen a comparison the the railroad word along this line.While I believe a few-probably ten per cent. farmers' sons have a good chance of a comfortable home of their own by the time they are 35 m . I wish to say that in many cases the boy taking up with railroad life wo
I can speak the truth about myself. I am 25 years old, and have almost nothing. I hav worked steadily on a I would yet have those years about wage of $\$ 250$ a $\$ 2,500$, to acre arm the facts concerning railroad life I would earn, if I were fireman, an average af $\$ 80$ a month, at least, on a railroad (allowing for no promotion and increase of salary up to $\$ 150$ a month), which would mean $\$ 960$ a year. Allowing expenses to the extent of $\$ 310$ for board and clothes, would leave $\$ 650$ clear, whin, in five years, would amount to $\$ 3,250$-just $\$ 750$ more in five years than
could save in ifk any fair-minded person would say Now, the comparison of wages and expenses just made favor the farm side, rather than the other as railroad fut I hear farmers say, "I wouldn't isk my ife two hours on a railroad, let alone two years. But do we not, as a Christian people, believe that while actively engaged in life's duties, the Al mighty calls each one away when He seas in one and, therefore, we are going
sphere of life as in another ? Others may say, who wish to uphold farm ore extreme, that you must a maintain however, that $I$ am in quite an equal, if not in a better position than thousands of farmers sons I am an only boy, and my father value. An of 1.10 acr will say, you must have been awfully waste other will
ful to have nothing at twenty-five years of age. I have been paid \$uld make no material difference to the comparison, as one would but have to start counting railroad earninga.
one was twenty-one years of age. I don't find by any means the chances that are talked of so often in papers a living else-
It means for them to either earn a where, or a chance to have a home ory map, lie hy the time they are in property at the death of their parents, which, to my mind, is a heathenish custom, often seen among farmers, especially. Now, this is a tough letter on farmers, permissible to publish such opinions (I doubt much if it would be considered correct in a farmers paper, which is often morem ; by this I mean not than for giving him wisdom, but all literature pertaining to farm matters), you may, and I hope that, instead of being another pebble on the sea shore, to cause boys to ly, to think a little more, and act, to lift farm life to a higher plane tha it has yet attained.
Dufferin Co., Ont.

At the New Brunswick Farmers' and Dairymen's meeting, adopted with regard to the Do minion grant of $\$ 50,000$ in aid of which has been coming this resolution set ơt that, in the opinion of the Association, much greater goor would accrue to the agricultural industry in those Provinces if a more even expenditare apthe grant were made ; and, therefore, that application be made
to change the present system of making the grant
to the Provinces once in four years, and, instead, to the Provinces once among them, paying $\$ 6,000$ to Nova Scotia, $\$ 6,000$ to New Brunswick, and $\$ 3,0$ on to Prince Edward Island, to be paid to
the Society holding the Provincial show each year. The meeting seems to have overlooked the
fact that the amount is $\$ 50$ oon
$\begin{array}{ll}\text { Christ } & \text { framed or of putting that visito } \\ \text { could } & \text { But, photographs so course it was too preciou } \\ \text { for the } & \text { he put it in his big red morocco } \\ \text { purse } & \text { no drawer of the bureau. And the }\end{array}$ purse
slick
bank.

## 

# The Tale of the <br> teacher, a graduate from a university in iand, received the salary of $\$ \check{ } 0$ per annum 



 evory story covered the same ground the wari-
ovary one began with a deseripion of of
 soventen weeks, and then went on to descrive the journey into the wilderness to the new home. jotail

 the hardships endured before the country was sel tied and ordinary convenienest coill were tocated Apparentlys. innecesirle praces, for in very crase the pioners had to carry their wheat, otton on
their bachs, from seven to torty miles to bob
to


 strange to say, the evidence tends to prove that
these terrurs were groundiess.
In his . Whanal
 sayd regarding the wolves. "We sometimes see
fin the newspaners accounts of attacks upon tray in the enespapers accounts of attacks upon trai eilers by these animalis, These are pure netion
That the Europenn woili, when pressed by hunger will sometimes attack a man, is no doubt true but so far there is no authentic case cutho The pioneer stories submitted in the competition bear out this statement. Although all of them speak of the oonstant howling of the wolves and The fears of the settlers, not one gives an mexaen wolves. Apprenty, the howl of the Canadian woit was much worse than his bite, It is ald cumstances and conditions occurring, perhaps, half a century ago, while correct in the main, may not always be mathematically accurate. No two persons will give a similar account of somethe their viewpoint, faculties of observation and memory do not curresponal. Peter Mearthur, with

 the stories were so simimiar in character and merte
til difered
in some
respects.
Each
contained some incilent or deseription that cast its oul peculiar light on the lives of the pioneers, in totable have been selecteces tor publicant ion. Taken together. they probably cast thore tirght on phoneer an. Here are a couple of characturistic stimpes Stratiford: : "OThe Eood manar at last tached a maple two


 tow play their part. Not many lorss were drawn when the yokee wrove The ver whe mate to take woult mane an thel owhilition to-the.
 Good many intemp ens the frither stucecerted in in


Thomas Adams, of Howlett, writes describing
journes into tine wilderness with his parents : ock by was called a horse-boat. It was nock by what was was a horso on it, hitched o a post. He stood on a large, flat wheel. When him degan to move, the whec that propelled the boat him. That was the power that propelled the boat Here is a memory of
' We had a neighbor ho was a captain of the militia. He was stopping with a company of men at a hotel on the
Lonewoods road, near where the Village of Chamesville now is. A small band of rebels anie there a little after dark and called the landord out. They wanted to hire him to take them Chatham. He went in and iont out alone. The leader was getting a drink at the pump, and the Captain went up and arrested him. He had a pistol, and shot Captain Carey; then they all
ran. Carey's men came out, but the rebels could not. Carey's men came out, The Captain died the
next morning. " Deer were very plentiful, and used to run " Deer were very plentiful, and used to
anong the cows. Mr. Fancher had an old horse, among the cows. Mr. F ancher hell on and ride in the woods after the cows. He always took his rifle with him, and put an old harness on the
horse and took a whifletree and chain. The deer being used to the bell, he could get up quite close, and he would shoot them from where he sat on he horse. I have seen him come home with trapped two wolves-a male and a female. He hilled the male woll, but the female he took home and put her in a hollow buttonwood log. Some
of these logs had a hollow as large as seven feet in diameter. He took one of these logs, about and had a ladder on the outside that he went up to let her feed down from young ones. Then he killed them all, and got the bounty of $\$ 7$ a head

Alice Gregory recounts this incident in the life of Roger Hartford, a pioneer of York County. He to Canada: gave one hundred acres of land to every British subject producing a certilicate which stated that
they had left England for no crime? This news gain revived their hopes, and they decided to later thes were on their journey. It was a long
tramp of soo miles over bad roads and rough country. Roger tooted it all the way, while his
wife and children took turns, sometimes walking wite and chimes riding in the wagon which convesed their gonds. Ackett's Harbor, seeing, on the
 rixcellencs the Governor for a grant of land, and miles from York,"
It is pleasant to record that this man "lived vated, and died at the age of ninety years, ha
 Mrs. M. Mcecelage, of nared somothine is show "Wer carlinst recollection of a marriage was
the wedding of it confle (now decmsom). The

The sketch of the experiences of Mrs. Thomas Hurnble, as told by Lizzie Humble Darling, of prinsley, Ont., is full of interesting details of here is a sketch of "Granny"; "The little, bent form in her shoulder shawl, black ruffled cap, a
few stray gray locks peeping under the ruffle, and she enjoying her pipe. ${ }^{\text {athe }}$ The onc-legged bed seems to be quite a novelty. Two poies, about four inches in diameter, the length and width of the bed, flattened the corner and into the one leg. Another pole was pinned to the logs at the back, so that poles
could be laid across and over these. Cedar and could be laid across and over these. Cedar and grown wheat to get straw. Homespun blankets covered the bed, and
after all. "A table on the same principle was made in sealy, made excellent chairs. Wooden pins were driven into the logs at a medium height, and shelves as were needed could be made, and these mane a very good cupboard. Underneath was a "Yeast was fermented from bran. About two quarts of boiling water was poured over one then it was strained. This was used until hops In closing her sketch, the writer touches on what was perhaps the greatest hardship endured by "Can we imagine the loneliness, weariness and homesickness that prevailed in the hearts of these
pioneers, so far from home and loved ones, startJames Dingwall, of Williamstown, Ont., writes: " The hay was cut with scythes, and shaken out with wooden hand-forks. As Aar back as
can remember, we would gather up the hay with vooden hand-forks and hand-rakes, an: coil it, and then stack it. The old barns were small,
and were frept to store away the grain, which was cut with sickles and bound into sheaves. The forget, when I was going to school, how I used to have to thresh with the flail morning and evening, and do chores. A great deal of the threshng was done by French-Canadians who came from
Lower Canada with their flails to thresh our Lrain and fan it with a hand fan for the tenth bushel. They came in the fore part of the winThen they came with their tranoes (sleighs) loaded with salt and fish, which they disposed of.
Then they would take home the toll of the grain Thomas Davidson, * * * Wingham, gives an idea of what the old-time hogs that ran wild in the ". A neighbor went to get a pig. He had two the herd. Thev formed a circle with heads out, mouths open, and a mane of bristles up the mid-
de of their backs. They defied the dogs. He te of their hacks. They defied the dogs. He Robert McLaren Millor, of Mt. St. Louis, gives and excellent account of the preparation of pioneer (hii) The first lumber that was cut in the Townhip of Medonte was done in the saw-pit. It was

$\qquad$

Sale of N. Dyment's Ayrshires.
This method of cutting lumber must have been strain of corn. with a history, that might be deased to some extent through the country, for thery
curtere saws made for forber this way.
They had a cross wooden handle at each end, and
The the teeth were like those of an ordinary rip-saw.

Describing the life of Mrs. Annie Bartlett Robinson, Mrs. J. H. Taylor, of Bobcaygeon this " MIrs. Robinson and he two brothers, boys of sikteen and ten, respectively, came to tor they to prepare
walked the whole way from Peterborough by route which must have been fully thirty math the suuch of the way a mere waded water for nearly bush, In one it remembered, each carried a load a milethes or provisions. Night overtook them in a big swamp, which they crossed by little dog. The writer knows logs, guided by an would not care to cross that sw daylight on fallen logs, and she does not
even ber at Mrs. Robinson's statement. I was
wonder and even
wonder at Mrs. Robinson's statement, It was
wet to the waist, my dear, from slipping off the met to the waist, me came to an old log shanty,
logs, and when wo
where you turn up to go home we were so thank-
隹
 shelter. I was too wited, but never would have found
down and slept,
without, the little dog. He scented hudown way without the little dog. He scented hu-
our what
man footstops ahead of us, and would run onl and whine unt
on again:
In telling the story of Dugald Fraser, J. E. ${ }_{l}^{\text {Mife }}$ in the lumber woods
"I've spent nigh forty winters in the bush
I went with a team at first, but after a while Iton to the broad-axe. Many's the year I've
torked for 'thirteen dollars a month and my worked and pork. If we wanted any tea, we had
bread and to buy it for ourselves. they say there is in the pie and doughnuts look our piece of bread and
shanty now. We took shank oi fat pork, and went and sat down in corner and in the spring good and fat, too."
come home in
attended to the work a home. the pioneer replied : "Oh, the old woman.
I've known her to do the chores for me and my brother Donald who was up to lift the water for me all winter' with a bucket and pole. Between times she would he spinning and weaving, an making clothes for myself and the youngsters. We
did not leat or wear much but what came off our did not eat or wear much but what came of
own farm, and I will often be thinking that the eating was as good, and the wearing was better,
than it is now. And it was not all for making money, eithor. We hat time for many a visit among th
The article submitted by Maud Benson, Picton,
Prince Eriward County, shows the hand of the Prince
skilled advard scmpathetic hostorian. From it we
select the description of the pioneer fireplace: "The fireplace was the center of not only the
fanily but. also of the social life of the people.
Its
great blazing fanily but. also of the social Ite great blazing
Heat and light it suppliid. Its.
tack-log and pine fore-sticks rendered dim and nconserfurnt the 'witch' rush-light or tallow dip. The great black throat was nect and hooks, and
crane, ornamented by trammels and dianer, pot or singing blackened kettle, and per-
hans flanted by bake-ketule and shining reflecturs. hans flanled by bake-ketlle and shining retiecturs.
Jealously was the altar-fire of the home guailel, and if the coverect fire in the fireplace proved to
be not all ine in the morning, the head of the house must. needs pack himself afoot to the near
est neighlior, perhaps a mile or so distant, to bor est neiphlor, perhaps a mile or so distant, to bor
row a few coals." Sandy Ferguson, whose life-story is told in an
interest in manner by Mrs. Robert White, of Clarendon station, Ont., used to emerge from the for est "t wice a year, spring and fall, at fair simer
and wout rade his potash for tea, cotton, sugar
and tubicco. He tanned deer skins and mad mits, and whcasins for himself and children fo
winter., mind would take what he did not need an winter, w.: would take what he did not need an
exchanter.: with the tanner for leather, and have
it mant.


Fonald Clarke, of Morriston, Ont., writes:
"Perhaps you would like to hear how we g
first fowl. Wy mother got Mr. Kennedy
to a man who kept fowl, and he happened
e a German, and could not understand a word ip on a stump and flapped his arms to his sides, no crowed, and by that the German knew what e wanted, and he came home with two hens and

## G. C. Caston, of Craighurst, gives many inter-

 esting reminiscences of pioneering in Simcoe alon A curious fact with respect to the settlers along the Penetang road was that very few ofthen had been farmers before coming here. My father was a carpenter : one of our near neigh father was a carpenter, one of our near neith
bors was an iron-moulder from Dundee a another
and a weaver from Glasgow, and so on; while many Iron Duke and had helped ,"t drive the armies

In the story by Mrs. Robert Milliken, of Lucas ville, there is a touch which shows that even in those ste
unknown
 -qreat strong fellows. MV father got brass
knobs and screwed them on their horns, they could not hook us., he said, but I often
thought it was to add to their fine looks, as he


Col. H. Montgomery Campbell.
$\qquad$
was proud of them. He made their yoke an was proud of them.
bent the wood for the bow, after steaming it over a large 'cooler ' or
boiled soap every spring
Mrs. William Ransom, of Fergus, tella, among other things, about how the pioneers wound
strips of basswood bark around their shoes to strips of basswoor bark also told about grind-
hold them together. She all hng wheat in a corfee mill to make coarse flour. It is a matter of regret that these interesting narratives could not be printed in full, for every-
thiny that pertains to Canada's First Brigade is of interest. This very appropriate name was
in
William Johnson, of St. applied to them by
Mary's, from whose poem
quote a couple of stanzas

- I dwelt with them in the lonely woods,

Where maples, beeches and cedars gr
nd the whip-poor-wil at evening, sten
To the dismal shades, wails notes of woe
"Think well of Canada's First Brigade,
Revere the spought, then breathe one thought
Right evelt they ion

G. G. Publow, Chief Dairy Instructor in Eastern Ontario, and for 16 years connected with the Sastern lairy school, at his has has at his own request, dve to ill-health, been relieved of the
aporintendency oi the school, in which capacity superintendency of the schon, in in . Instructor in
he is succeeded by i. A. Zufelt,
 starl and studints with a rold headed cane. H
still retains his position as Chief Instructor.
ment, of Cappison's, Ont., pul 30 head under the hammer at Hamilton, Ont.., March yth, as adver
tised ent. The local buyers allowed those from a dis tance to get most of the best offierings. Gee. Tisher, of Chatham, N. B.; Hector Gordon and buyers. On the cow Floss Morton there was some keen bidding, but Gordon laid claim to her from the first. Much of the stock was irom ine ord of Perrormance cows, or had reg stered inpe, and test. The animals were all true to type, and
were bred for business. The following is the list were bred for bus
of sales over $\$ 70$

| Fairy of Hickory Hill; M. Schwitzer, Empress; Hector Gordon, Howick, Que Jess Morton; Hector Gordon <br> Floss Morton; Hector $\begin{aligned} & \text { Gordon } \\ & \text { Duchess of Rockton ; P. }\end{aligned}$ D. McArthur, N. <br> Georgetown, Que. ... ......thau, N. B. <br> Queenie; Gen. E. Fisher,'G. Gordon <br> Pet of Hickory Hill ; P. D. McArthur <br> Flossie of Rambo Creek; R. R. Ness, Howick |  |
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|  |  | Duke of Hickory Hill: A. $\qquad$


| Duke of tichburg, Ont. .................................. \$ ${ }^{7} 5$ |
| :--- |
| 80 | Spry of Hickory Hill ; Geo. E. Fisher...... 80

Jupiter of Hickory Hill ; P. D. McArthr... 130 Twenty-nine head averaged $\$ 108$; seven bulls, one and two years old, averaged $\$ 62$; thirteon
cows and heiters averaged $\$ 163$; nine calves and vearling heifers averaged $\$ 64$.
S. J. McKnight's Shorthorn Sale. The auction sale or Shorthort cattie, property oth . very unfavorable condition of the roads. No fancy prices were realized, nor expected, and some
of the offering went at less than their value, but fair prices were received for the majority. The sale was well handled by auctioneers apowing is a list of sales of $\$ 75$ and upwards
females.
Blanche, 3 yrs. old; J. W. Patterson, $\$ 140$
 Crimson Maytower, 8 yrs.; Victor Bowes, Viola, 2 yrs.; Thos. Mercer, Markd.ale... Alice, 2 yrs.; V. John Jullan, Heathcote Roan Gem, 2 yrs.; F. Foster, Clarksburg. Claribelle, 2 yrs.; H. H. H. Thompson .......... Myles, Heathcote., Miss Eliza, 5or, 8 yrs.; Edward Fieghan,

 Gay Torrance, 3 yrs.; Thos. Mercer ............
Vera, 1 yr.; Fletcher
Foster, Clarksburg... Herna, 1 yr.; Thos. Mercer
Olga Gem, 2 yrs.; J. Myles Olga Gem, 2 yrs.;
Blushing Gem. 1 yr.; P. White, Heathcote... Blushing Gem, 1 yr.; P. White, Heathcote...
Coquete,
3
yrs.;
A.
 Miss Eliza ora, Bulls
Happy, 1 yr.; Thos. Mercer ...................... ${ }^{\$ 110}$ The Tranp, ${ }^{1}$ yr.; A. Knott, Epping
The Prodigal, 2 yrs.; Thos. Mercer ...

Movements of U. S. Cereals. The Crop-reporting Board of the Bureau of
Thited States
Department of Statistics of the Unted from reports of correspondents and agents, that the quantity of corr on Unitell States farms March 1st, ${ }^{1911, \text { was }}$ about $1,265,634,000$ bushets, or 40.0 per cent.
of the 1910 crop, arainst $1,050,865,000$ bushels, or 37.9 per cent., of the 1909 crop on farms March
1 st, 191 ; and $953,100,000$ bushels, or 888 per 1st, 1910; and $953,100,000$ bushels, or 38.3 per
cent., the averauce for the past ten yearr. The quantity of oats on farm March 1st, 1911, was the 1910 crop, against $363,159,000$ per cent. or
38.1 per cent., of the 1909 crop on farms March 1st, 1910 ; and $317,985,000$ bushels, or
cent., the average for the past ten years.

## Power for Farmers.

A bill to provide for the local distribution of electrical power has begislature by Hon. Adam Beck, with the purpose of providing that any one or more of the atepayers in a municipality that has not enter into a contract with the Hydro hectunicipal sion, may apply in writing to the municipal Comorssion to supply of electrical energy for the use f such ratepayers for lighting, heating and power pors request of the municipal corporation, the Commission shall furnish an estimate of the maximum cost per horse-power of
electrical current at the point of development, and an estimate of the cost of constructing and providing transmission lines. The commission the distribution lines to be built by the local corWoration. Within a month after the delivery of
such estimates, the council shall, at a special meeting, consider the statement and estimates furnished by the Commission, and, with the consent of the applicants, or such of them as may signify
their desire to enter into a contract, the council may, without any further formalities, pass a bylaw for entering into a contract with the Commission for the supply of the electrical power re quired by the applicants. from time to time, further suhscribers, and may provide for the issue of twenty-year debentures of the municipality to
meet the cost of construction and instalment. The meet the cost of construction and instalment. The
amount payable by the applicants in each year for the power supplied them shall be sufficient to re coup the municipality in full of its annual charge
and, in default of payment, any amount due the corporatiou shall be entered on the collector taxes. The trustees of a police village shall, for the purposes of the Act, be deemed a municipa corpor
power

## A New Record Jersey Cow.

 The authenticated year's record of the Jersey cow, Sophie 19th of Hood Farm 18948, Mass., has given her second place only to Jacoba Irene, andis claimed as a new record for a Jersey cow comis claimed as a new record for a Jersey cow com
menced when under five years old. This recor was begun January 1st, 1910, at the age of fou years and eleven months, after freshening on De cember 25th, 1909, and was authenticated by the
Massachusetts Agricultural Experiment Station at Mhree different times by three different supervisors throughoit the year, during which she produced
14,373 pounds 3 ounces milk, testing, on the 14,373 pnunds 3 ounces milk, testing, on the
average, ${ }_{5.986}$ per cent. fat, showing her fat average, 8.986 per cent. fat, shats 13.7 ounces, equivalent to allowing for all probable losses in creaming and allowing for all probale eclipsed by Jacoba Irene's 1,126 pounds. Now, at six years old, Sophie 19th has had three calves, and in the three milking periods her total productions are 31,348 fat, and 2,154 pounds estimated butter. An accurate account was kept of her feed for her last
year's record. and her milk, if sold at 10 cents
per quart, would have made a profit of $\$ 565.22$.

Friends at Cour
As illustrating the somewhat biased attitudd
on the tarif question of those members of Par liament who have stock in companies enjoying
tariff protection, Eurene Mason, speaking at Grange meeting in Lambton County, recalled the story of how one of Lincoln's clients escaped con-
viction for stealing a pig. As the jurymen filed viction for stealing a pig. As the jurymen filed
past the prisoner, the latter quietly remarked : acqu:ittal followed. "What did you mean by standing together, Lincoln asked the client after the case was over
" Fvery man of them had a piere of the pork, was the reply.
"that." added Mr. Mason, " is what is the
matter with the men who frame our tariff laws

 An Act has been introduced by be X. ......



Retirement of Dr. Wm. Saunders. Wm . Saunders from the directorship of the Do minion Fxperimental Farms marks the official close of a long, useful and honorable career in the pubric sertic the regime of Sir John Carling then Minister of Agriculture, the Experimental Farm system was practically the creation and crowning life-work of Dr. Saunders, who, during with recommendations, based on personal investigations in America and Europe. where he wa A native of Devonshire, Eng., where he was
born on Jan. $16 \mathrm{th}, 1836$, Dr. Saunders settled in the publishing place of "The Farmer's Advocate," London, Ont., in 1848, establishing a business as a chemist, but early turned his attentions to natural science, horticulture and agriculture. In
1882 he became Public Analyst for Western Ontario, and aided in founding the Ontario Entomo logical Society, of which he was president fo several terms, and editor of the Canad discerning
mologist for 13 years. Still further dis. the value of organized effort, he became a member and president of the Ontario Fruit-growers' Asso ciation, in which he rendered splendid service specialty, on his farm near London, about 1868. His knowledge of fruit led to his preparation o Canadian displays for international expositions mological researches, followed the publicatian of that standard work, "Insects Injurious to Fruits," which has gone through several editions. In 1880 he acted as one of the famous Ontario Agricultural Commission, which greatly extended his already accurate knowledge of conditions, and, as before stated, in . 1885

as commissioned to report on the subject of ex perimental farms for Canada, resulting in the esCarm, serving for Ontario and Quebec, at Ottawa, Provinces; one at Brandon, for Manitoba; at Indian Head. for the Northwest Territories; and
the fifth at Agassiz, for British Columbia. An ther in Saskatchewan, and wo in Alberta, have
since been started, each with a local superin-
 with a view to the improvement in quality, yield and earliness of cereal and other field crops, and
of fruits and tree culture, have been the outstanding features of the' remarkable development of these farms, which have become the admiration, quarters of the world. Indefatigable thoroughnes has distinguished all his work, and inspired the
able staff of specialists who have been associated able staff of specialists who have been associated
with him. Of late years, the work with cereals has been conducted by his son, Dr. Chas. E Saunders. A special outgrowth of the work has
been the distribution of information, by reports, been the distribution of information, by reports,
bulletins, and letters to the press, and of samples of improved secds to farmers, stimulating ex-
periment and fflorts at crop improvement in all and correspondence, he kept himself in close touch with the progress of the country, and in sympathy "ith its decelopment. His reports are rich i His. work has attracted attention throughout the "onld, any he was honored as a. ". Fllow ". and thenishel sumentic associations and societies



Quebec Stock-loreeders The seventeenth annual meeting of the
tock-breeders' Association of the Province hec, was held in Montreal on February 13 General Stock-breeders' Association is a feduration of the following societies: The Sheep-brecders' Association, the Swine-breeders' Association, the the French-Canadian Cattle Breeders' Association. In addition to prominent agriculturists, some 80 members were present. The report of the secreamounted to $\$ 9,647.62$, and expenditure $\$ 7,531.64$, leaving a balance of $\$ 2,115.98$. will be done at the Experimental Farms which his Department bought lately in the Province of
Quebec. The Ste. Anne's farm will serve to demonstrate how worthless land can be made pro-
ductive. The Cap-Rouge farm, near Quebec City, ductive. The Cap-Rouge farm, near Quebec City, will be used to make all kinds of experiments
which may be of interest to that section of the country. It will also serve to demonstrate the profitableness of the French-Canadian cow as a chean butter producer for the ordinary farmer. rent year: President, Hon. N. Garneau, Quebec; 1st Vice-president, Thos. Drysdale, Allan's Cor1.ers ; 2nd Vice-President, Arsene Denis, St. Nor-French-Canadian Horse Breeders' Assuciation held its annual meeting on 14th February
last, at the Queen's Hotel, Montreal. Robt. Nfss last, at the Queen's Hotel, Montreal. Robt. N^ss
was in the chair, and Dr. J. A. Couture acted as was in the chair, and Dr. for French-Canadian horses is very good; the fact is, that it exceeds the supply. Consequently, the prices are very re-
munerative. Steps are being taken by the execumunerative. Steps are being taken by he execu-
tive to gather in two or three districts, especially tive to gather in of Joliette, Berthier and St. Hyacinthe, as many mares as possible, so as to make these counties the principal
for that class of horses. The following officers were elected for the cur
rent year: President, Joseph Deland, L'Acadie rent year: President, Joseph Deland, L'Acadie ;
Vice-President, Robert Ness, Howick; Secretary, The French-Canadian Cattle Breeders' Association held its annual meeting on the 14th February last, at the Queen's Hotel, Montrea. There were the chair, and Dr. J. A. Couture acted as secre tary. The secretary read a letter from the Chie stating that a herd of rench-Canadian cattle had were doing very well, indeed; that the people thought they would be the best cattle for that
country, and there would soon be a good demand for them.
Officers.-President, Arsene Denis, St. Norbert Oficers.-President, Arsene Denis, St. Norbert
Station; Vice-President, T. B. Macaulay, Mont-
real ; Secretary, Dr. J. A. Couture, Quebec.

## Organizing Local Granges.

The farmers' delegation to Ottawa, emphasizhas, as it did, the importance of organized effort, ing is a brief report of last week's work, supplied ing is a brief report. of last week's work, supplied
by W. L. Smith J . C. Dixon, of Maryboro, suc-
ceeded in ceeded in organizing two Granges in Grey County, at Boothville, with 17 members. W. C. Good has organized a Grange at Mt. Pleasant, with 21
charter members. Arrangements are being made for meetings in Dufferin County this week, to be addressen by steps were also taken, looking to the organization of a Grange at Holstein.

In the Canadian Senate, on Wédnesday last, In the Canadian Senate, on Wednesday last lator bill. The clause providing that the Com Arthur was approved. It was explained, in answer to some objections, that the Commissioners had power to sit anywhere, but that, as they had oint was the only one at which improper practices in mixing grain had apparently been carried

The Grain-growers' Guide advises farmers to iop marleting their grain. The price of wheat
 wrind had dropped in price 3㚆 cents. There has prices was due to manipulation by grain-dealers, at, whether that is the case or not, the paper would pay farmers who can do so to hold
form




Paying store accounts periodically by cheque is safer than paying cash for each purchase. Handling cash is always attended with a certain amount of risk. The use of cheques avoids this and besides puts your home accounts on a business basis.
TRADERS TBANE

MARKETS
Toronto.
 1,198 sheep and lambs, 27 calves, 63
horses.
Quality of cattle was generally




 and $\$ 6.75$
review of last week's markets The total receipts of live stock at the
City and Union Stock-yards were as tol-
 The total receipts of live stock at
two yards tor the corresponding week of
辛 1910 were as follows.

THE FARMER'S ADVOCATE


## Buffalo.

Veals. $-\$ 7$ to
Hogs,- Heavy,
$\$ 7.20 .40$.
s. pigs, 87.45 to $87.70 ;$ roughs, 88.50 to
86.65 , 8 tags, $\$ 5$ to $\$ 5.50$ dairtos, 87.25 8.8.
or $8 . .65$.
sheep

Sheep and Lembs.-Heary la
$8 ;$ handy lambs, 85 to $\$ 6.85$
British Cattle Mapkets.
John Rogers ${ }^{\&}$ Co., Liverpon, cable
States and Canadian steers from 12tc. to 13zc. per pound

## BOOK REVIEW.

GAME AND FISHERIES,
rom
the Minister of Public Works,
onto, comes a copy of the tourth annual report of the Provincial Game and Fish eries Department, which everyone int or
ested in the subbect, from economic or esporting motives, should secure. It contains a wealth of information, and is ad mirably printed and illustrata, ent he color papes This handsome volume proves that "blue books" can be mado tascinating a nimal husbandry literature. A reterence book, of service to students
and teachers of animal husbandry, has ben compiled and published by Prof.
Charles S . Plumb, of the State Colloge Akriculture, Columbus, ohlo. It gives the titles of books, bulletins and reports, grouped alphabetically under such sub-
locts as beet production, calves, breeds of jects as beef production, calves, bread of
animals, diseases, milk and butter producanimals, diseases, milk and butter produch
tion, feeds and feoding, heredity, and
ans tion, Redss and
the diferent classes of live stock. A Alist
The book claims to of authors is given. The . Thor cianims
be but a "partial index." though cover
 are ief, so that onthe the omission of refer-
ten in. We motice tion ence to several admirable publications,
such as those on Swine Husbandry, by Trof. G. E. Day, and Canadian Dalirying, by Prof. H. H. . Dean, of the ontario
Agricultural College, and those by as. B. Spencer. of the Department of Agri-
culture, Ottawa, on Beef Catle, the Sheop Industry, and the Bacon Hog Industry of Denmark and Great Britain, which hhould
be included in the text of tuture edtions.
"But," protested the wayward gon,
'you should make allowance for the tollies Houth. . Hrowled the old man. "If it it
wasn't for the allowance you get theréd


Selections from Eminent Writers.
Ca
(From
Burroughs.) Birch," by " The Maine (canoe) birch is turned to so many accounts that it may region. Uncle Nathan, our guide, said it was made especially for the camper-out ; yes, and for the woodman and frontiersman generally. It is a magazine, a furnishing store set
up in the wilderness, whose goods up in the wilderness, whose goods
are free to every comer. The whole equipment of the camp lies folded in
it, and comes forth at the beck of it, and comes forth at the beck of
the woodman's axe; tent, waterproof roof, boat, camp utensils, buckets, cups, plates, spoons, napkins, table cloths, paper for letters or your journal, torches, candles, kindling
wood, and fuel. The canoe-birch yields you its vestments with the utmost liberality. Ask for its coat and it gives you. its waistcoat also
Its bark seems wrapped about it layer upon layer, and comes off with great ease. We saw many rude structures and cabins shingled and sided with it, and haystacks capped
with it. Near a maple-sugar camp Where was a large pile of birch-bar sap buckets,-each bucket made of piece of bark about a yard square
folded up as the tinman folds up sheet of tin to make a square vessel the corners bent around against the sides and hela whe wooden pin by a shower in travelling through the 'woods, our guide quickly stripped large sheets of the bark from a near
tree, and we had each a perfect um tree, and we had each a perfect
brella as by magic. When the rain was over, and we moved on, I wrapped mine about me like a large leather apron, and it shielded my
clothes from the wet bushes. When clothes from the wet bushes. When would have a birch-bark cup ready before any of us could get a tin one
out of his knapsack, and I think water never tasted so sweet as from wae of these bark cups. It is exact ly the thing. It just fits the mouth
and it seems to give new virtue to the water.. It makes me thirsty now when 1 think of it. In our camp at Moxie we made a large birch-bark box to keep the butter in; and the
butter in this box, covered with some leafy boughs, I think improved in flavor day by day. Maine butter needs something to mollify and
sweeten it a little, and I think birchsweeten it a little, and I think birch-
bark will do it. In camp Uncle Nathan often drank his tea, and coffee from a bark cup; the china closet in
the birch tree was always handy. the birch tree was always handy.
and our vulgar tinware was generally and our vulpar tinware was generahy
a good deal mixed, and the kitchen-
maid not at all particular about maid not at all particular abol
dish-washing. We all tried the oa these dishes, and the stewed mout tain cranberries, using a hirch-bar
spoon, and never found service bet spor, Uncle Nathan declared he coult boil potatoes in a hark kettle, and
did not doubt him. Instead sending our soiled napkins and tathe
spreads to the wash, we rolled the up into candles and torches, and
drew daily upon our stores in the forest for new ones.
But the great triumph of the birch is of course the bark canoe. When
Incle Nathan took us out under his little woodshed, and showed us, or his nearly finished canoe, it was lik known genius of the woods or
streains. It sat there on the chips
and shavings and frarments of bark it is handmade and homemade, or, and the man seemed born of the like some shy, delicate creature just rather, wood-made, in a sense that, and and trapper for over forty years; some wild flower just opened. It was it suggests a taste and a reincmen ripened and matured there, and everythe first boat of the kind had eve that reme The design of a savage, it thing about him was as if the spirit seen, and it filled my eye comp, and yet looks like the thought of a poet, of the woods had make-up was in a what a wild, free life, sylvan life it and its grace and fitness haunt the it in and subdued key, like the promised! It had such a fresh, imagination. I suppose its pro- moss and lichens, or like the protecaboriginal look as I had never be- duction was the inevitaburroundings, tive coloring of the game everything Its clear yellow-red color would have but that does not detract from its but his quick sense and penetrative become the cheek of an Indian maid- beauty. It is, indeed, one of the glance. ge wis ; his sensibilities were en. Then, its supple curves and fairest flowers the thor, as I have in- like plants that grow in the shade. swells, its sinewy stays and thwarts, ever bore. our canoe, as
its bow-like contour, its tomahawk timated, was not yet finished when The woods and the solitudes had stem and stern rising quickly and we first saw it, nor yet when we touched him with influence; had indeed sharply from its frame, were all took it up, with its architect, upon shed upon his soil of life a rich, deep


Canoe Birch
shed upon his soil of life a rich, deep
leaf-mould that was delightful, and that nursed, half-concealed, the ten-
derest and wildest growths. There werest and writ enough back of and beneath was grit enough back of and beneath
it all, but he presented none of the rough and repellant traits of character of the conventional backwoods-
man. In the spring he was a driver of logs on the Kennebec, usually hav ing charge of a large gang of men ; in the winter he was a solitary trap

The Windrow
The noted scientist, M. Edmond Perrier, of the Academie des Sciences et besides Farth which is inhabited et besides Earth whilar to' human beings phas colla Dr. Alfred Wallace, who was colla of his work, has, at the age of 88 published a book, "The world o
Life," which is attracting inuch at tention
circles. A memorial tablet to Goldwin Smith will be erected in the beauti Cornell campus by direction of the board of trustees of Cornell University. The tablet will commemo rate the distinguished savant's git placed in the entrance hall, not far from the busts of Dr. Smith and his wife. On it will be inscribed these words, from Dr. Smith's will: give, devise and bequeath to Cor nell University, in the State of Ne
York, United States of America. In confirming this bequest, my de sire is to show my attachment to
the University in the foundation of which I had the honor of taking part to pay respect to the memory Ezra Cornell, and to show my attachment as an Englishman to the
union of the two branches of our race on this continent with each other, and with the common mother."

## Glad Heart.

## To hear her lauch you'd think the ear

 Held nowhere sadness, only mirth.It had been such a weary day;
The sullen skies were wan and The rain sobbed wist fully, and wept
The cold wind-life was sorrow-swept Tntil she came. Oh, all the birds
sang in her voice; and strove for words The in her voice, and strove for The subtle music of my dreams The subtle music of my dreams
(ame true, and life was good and fair The rain waxed beautiful, the air
Was fillod with flow'r-scent-so Was filled with flow'r-scent-so my view Calmed to the miagnet sound, and
Calm serene and sane anew.
which it cance th old Indian had to the wools. It lacked part of the
 Out wit the boat before us. Uncle reached our destination. thi, mountains, looking for a suitable the birch tree for our guide, Uncle
trow, and had worked moarly a week Nathan, as he was known in all the

 bo the matme a cance, hesides the him a lapg, part of his thition, and


yarch i6, 1911
THE FARMER'S ADVOCATE.
"Manners Makyth Man. " Neither a Bore nor a Boor, but andebted to a very dear friend 1 mine, the mother of sons of whom any Canadian parent might well be proud, for permission to quote freely from a lit course of a conversa to read in the topic which has headed my last three articles, "Manners Makyth Man." The letter written by an elder brother to a successful career at our public schools and university, by holding more than one prominent position ; neting for three scholarships, having just entered upon university life in one of the large cities of the Dominion. Naturaly,
to be very restricted, and so must be
my words of commendation, lest it should invade the privacy and betray the identity oradian manhood, but I mels of that my quotations will not
believe
be without their significance, as be without their significance, as
showing the brighter side of the showng the bere; as giving proof of
shield, as it wise use what home influence and a wise use
of the educational advantages our country offers, and of what a bounteous harvest may be expected from
foed sown in good soil.
The good seed so
letter begins
" Dear free night I have had for weeks and weeks, I am going to write you about your University Course-about
both your work and your general life both your work and your general hite
there. First, about your University life, apart from your work: "You have already made a start,
so that it is useless for me to give you any advice about your conduct earlier, I should have warned you to
lie low and say nothing for some lie low and say nothing fing a so-
time. You are now enter ciety of 2,000 students, hardly any
of whom know you, and hardly any of whom you know, Your reputation with them is therefore in your
own hands; see that it is a good one much admiration for a brilliant man as they have for a man of strong
character : a decent man, who is white through and through, a man who is straight, clean and mana, do his share and more, without talk,
when it comes to action; a man When it comes to action; a man
who has every other man sized up
in in his own mind, but who never, on
any condition, says an unkind, un
gant generous or unthinking thing about
another man : works another man; a man who works
hard, and has the force of will to hard, and has the force of wile
stick to it, in spite of blandishments
or or temptations; a man who always
sets his tace against any proposal which is the least bit crooked or
tricky or underhand a man who

He had more monev than the vast but he'd never sny or do an ungenermajority of us, yet he spent less than ous thing against the other side. most. He never preached to the Above all, he was absoruty drail; he swear or tell a smutty story; he played the game from start to finish. never soiled his own lips with them. He never smoked, as far as I can re-
member, and certainly he never drank anything. He was friends with
everyone, with men of all parties and everyone, with men of all parties and
classes, and I I don't think anyone classes, and 1 don't think anyone a soul. He had little to say, but he was always ready for fun. As a
freshman he laid low, and did what freshman he laid low, and did what and with the best of humor : as a sophmore, he treated freshmen with more consideration than any sophomore had ever treated him; as a
senior, he saw to it that the sophosenior, he that day acted fairly towards those below him. He was one of the most silent men in the University, and when he spoke he versation was getting awkward or undesirable, he would in his quiel
way turn it into a better channel. I the conduct or character of zome man. was being discussed, he was the first to suggest a favorable explana he was a charitable view. Of course as well as an association player, A quarter-back of the First Fifteen, he was naturally an idol of the whole university, but his popularit existed long before he became quar
ter-back. On the football field $h$ never played for his own glory, but always for the glory of his side. He would pass the ball to a man in a better position, even though he ha
a chance to make a brilliant run. He a chance to make a brilliant run. He
worked hard for the Athletic Asso-ciation-work that is laborious, but not showy. He was content io do the work and let the other fellow
have the honor. In spite of his have the honor. In spite of
prominence on the football field and in various student societies, he was perhaps the most modeat man in our class. He did no spouting at meet
ings, though he would work like a Trojan at committee meetings. He seemed to have a poorer opinion of seemelf than anybody else had of
himself
him. him. In spite of his quietness, no
one would ever have mistaken him one would ever have mistaken him
for a stick. He was full of funinnocent, $\begin{gathered}\text { irresponsible, bubbling } \\ \text { hamor. }\end{gathered}$ When it came to a political

kindness and hospitality. That is rule which no gentleman ever negtice always to pick out and associate with the nicest people. I don' want you to be a snob; but, aite all, hreeding does count, and people who are always meeting gent whil become gentemen always meeting ordihary people, become ordinary. choose your friends, when you
choose, from among the men of goo choose, from among the men of good family. In that way you willy, and your connection will be far better than it otherwise would be. And, from the first, when you are neeting is the most cultured, and :nake him your model. Choose an Oxford man
it may be Prof. D. or Mr. B., or Mr it may be Prof. D. Mr. M.- the very best type of Oxford man with whom you come in contact-and do your very hest to acquire his refnemer still thought and mative stage; your char-
in the imitat acter is still in process of formation; see to it that you develop into the best possible man and the most culcan easily beat you at slang; drop can easily beat you at slang,
all efforts to rival them; try, all efforts to rival them; tlang is an abomination and with whom culture counts for everything. "And here let me say that the
great secret of gentlemanliness is great secret of getrumanimesan is
unselfishness. The true gentleman the man who is always thinking of others. Cultivate this. Ald comthink how you can adid or pleasure of those with whom you come in contact. You will then give up your seat to a lady or an older man in a street car ; you will turn the conversation at dinner other diners; you will encourage people to talk about themselves, rather than
about you : you will think more of about you; you wilt think more of getting passing thems you the salt; you will notice that they are tired or worried
or indisposed : you will be generous or indisposed; you will be generous
in action and accommodating in disin action and accommodare the price cussion; you wilwaysure putting other people at their ease. in a a boor you will never be a You will always be a gentleman.
That is the greatest secret of lifeUnselfishness
N.S. mind, and minds his own business
a man who is companionable, acom
modating and clubable ' a ma Who is always ready to help a chum
either in his Latin prose, or in fight with the police; a man who i
absolutely sincere, in word and deed and who never tries to run with the hares and hunt with the hounds; man who never exaggerates, and who
is alwass inclined to understate rather than overstate his case; man who always does the decent
thing: a man who puts on no side a man whe is a sport, and a clean
one ; a man who plays the game, first, Ind all the time. That is
the surt man I want your 2,000 compran to find in my brother. In
popul. at Varsity, the most
knew was H. J, yet I neve
on do anything to see populact. He was a Y. M. C.
man means

Hope's Quiet Hour
God's Little Childpen. It is not the will of your Father which
Is in heaven, that one of these little ones Is in heaven, that one of these little ones
should perish.-St. Matt. xviii.: 14. Yesterday I had the great pleasure of
being present at the annual meeting of being present at the annual meeting of
the Children's Aid Society, of Toronto.
the meetinc was held in The Children's The meeting was held in The Children's
Shelter, Simcoe street, and many interesting diddresses were given by Bishop Sweeney, the Lieutenant-Governor, the
Mayor, and others. The children marched
in and sang patriotic songs with great Mayor, and others. The cong with great
in and sang patriotic songs wit good to see
energy. It did one's heart gith cleanliness energy. It did one's heart good to se
the happy faces, shining with cleanliness and beautiful with health. Many
were quite tiny tots, almost babies. Both boys and girls were, dressed in white, but
there was no stifness in uniform, for the mime same pattern,
bright neckties
were invited to $\qquad$ were
the bo
variou
pect the it was a great pleasure the building, and it was a great pleasure to peep into the
dormitories with their little white beds each with its dainty white pillow-sham,
feather - stitched in red-and the white feather - stitched in red-and
cribs for the very little children. We also had a glimpse of the schoolroom, whe
each child was sitting in front of his lit tle desk, and atterwards the little one trooped into the dining-room for tea,
which was evidently very enjeyable-if on which was evidenty
might judze from thetr emiling faces. Some of the children in the institution
are sent there by the Children's Court,
 misery and neglect. I should like to
quote part of the Report of the Board o Management, which was put into our
Mands yesterday. "In presenting the Nineteenth Annual
Report of the Society, the Board would place on record its deep sense of the good-
ness of God manitested in the kind Yrovidence which has guided the hand of Board
and workers alike in carrying on the and workers alike in carrying on the
work of the year. There has been much that calls for devout thankfulness-the
work is ours, but the blessing is His-to wim be the glory, for without Him $t$
builders labor in vain. . . . . . task is not an easy one, and calls tor ffrort. The workers, by the blessing of God, have had much to encourage them,
eor some hundreds of children, now growing up into manhood and womanhood, in
good foster homes, are furnishing evidence of their becoming good citizens, and thus
fulfilling the aim and hope of the Society -and what a contrast-some six hundred
boys and girls in comfortable foster homes, with every chance for useful,
happy lives, instead of, as in many cases, they would have become members of the
reminal class. Thus, through the agency criminal class. Thus, through the agency trom ruinous influences, trained for a time
in sell-restraint and discipline, and helped in self-restraint and discipline, and helped
to lives of sell-respect and usefulness. . life in the country has missed much, and
his development is likely to have been onesided. Last year, through the large
hearted liberality and Christian kindness of Mr. William Thomson, a holiday outng weeks for the girls, and another five weeks Por the boys, was greaty enjoyed, the
children having a good time, and many of them a new experience. The place
selected for the Cump was upon Lake Belectediching, a few miles from Orillia, and
Coue Camp presented a very picturesque
the Cat appearance indeed, with its row of sumal
white tents supplied with comfortabl
beds, with a cottage for the starf and beds, with a cottage ror tent. Flag
ofticers, and a dining-room tent and
surmounted all the tents, and the nam chosen for the Camp 'Happiland.' Chilaren are very quick to receive in Looking at the sweet, innocent faces,
was hard to believe that those bon children had been rescued from evil su roundings. Evidently the love and
tience of those who now tenderly care dear children is already
$\qquad$ mentionad the tarmers. Who were earing
 Where the chiliden may be adopted and tees home, here is your chance to supply In the Book of Proverbs we read that
a child left to himself, bringeth his mother to shame." Of course, that is the natural result of neglect. You farmers don't expect much from a feeld that
is left to plow and sow and weed itsell. It will only produce a crop of thistles and other weeds, when it might have pro-
with careful manageduced good frut with careetul marvangesuch a case of neglect by man?) When our Lord was asked the question: heaven?" He said that the path to
greatness was open to those who should greatness was themselves and become like little children. Then He proclaimed the wonderful tidings: "Whoso shall receive one
such little child in My Name, receiveth Me," offering to come and live with those who should open their homes to His chilof those who receive His children the miserable state of all who lead them into evil, explained-in the wonderful parable
of the lost sheep-that His love for each of the lost sheep-that His love for each
could never be dimmed, and ended this children's gospel with the words I have chosen for our text: "Even so it is not the will of your Father which is in
heaven, that one of these little ones heaven, perish.".
God's litle children! Let us remember that all children belong to the King of
Kings. Those who injure them by neg Kings. Those who injure them by neg
lect or cruelty, or who defile the spotless innocence of their white souls, must face the wrath of One Who has said
"Whoso shall cause one of these little ones to stumble, it is profitable for him
that a great millstone should be hange that a great millstone should be hanged
about his neck, and that he should be
sunk in the depth of the sea.".(S. Matt. sunk in the depth of the sea."-(S. Matt
xviii.: $6, \mathrm{R}$. V.) ject, which shows more clearly the bright-
ness of the other side. Think of the blessedness of those who are patiently and tenderly caring for the children of the
King. There is an old saying: "God could not be everywhere, so He made
cothers." But is it not rather true that God is everywhere, and that He is touching His children through the hands of
mothers, and of those with mother In all God's Garden ef earth, there i no lovelier flower than the little children Was it any wonder that our Master lifted
them in His arms and pressed them against His heart? Is it any wonder arms to be trained and perfected in th sunny fildd of Paradise ? God loves His
little children, and He sends them dow little children, and He sends them dow
to aarth to cheer the heavy-hearted, bless and purify the homes of rich and
poor, and to lead His older childrea poor, and to lead His older children
nearer to Himself. This world would be a very dreary place, and men and wome
would grow very hard and selfish, if were not for the dear, troublesome, gladheartere He sends us babies every year. Any kindness shown to them is repaid
hundreds of times over by their Father Our Lord has said: "Whosoever shall
give to drink unto one of these little ones a disciple, verily I say unto you, he shall
in no wise lose his reward." We all can do as much as that-or more.
DORA FARNCOMB
 me lesters, valcntines, ctc. It is always
a pleasure to hear from our readers-even when they write to say they disagree
with me. We can't always think alike, To Those Who Sent Literature for Iam sure you would here amply repaid.
"Inasmuch as ye have done it unto one
of the least of these my brethren, ye
have done it. unto Me."-Mathew 25: 40 . Study IV.
JACOB MATTHIAS.
Uffington, Muskoka, Ont.
A Blessing for the Blessed
When the sun has left the hill-top,
And the daisy-fringe is furled,
When the birds from wood and meadow
In their hidden nests are curled,
Then I think of all the babies
That are sleeping in the world . . .
There are babies in the high lands
And babies in the low,
There are pale ones wrapped in furry skins
On the margin of the snow,
And brown ones naked in the isles
Where all the spices grow.
And some are in the palace
On a white and downy bed,
And some are in the garret
With a clout beneath their head, Study IV.-" Write a Character were "Scottie," Glengarry Co.,
E. Oill, Welland Co., Ont.; Extra $\underset{\text { awards }}{\text { Exight }}$ were Friend," Prince Edward Co., (Int., and
Fawcett Eaton, Wentworth Co During the judging there was sit. cussion as to whether an essay on "A Country Church" might be considered a character sketch, but as, in the competiregard to subject, the emphasis in marking being placed especially upon literary quality, it was decided that the disputed the church was, to some extent, personified, and that human characters were realwrote on "character" in the abstract, but
clearly this was not what was required.
Very excellent essays were also writen J. W. Thompson; A. M. Freeborne; N. B.": "A Maid"; "Forget-me-not",
Constant Reader," and "Larry Larkins."
little men and women,
Dear flowers yet unblown
little kings and beggars
Of the pageant yet unshown !
Sleep soft and dream pale dreams now,
To-morrow is your own.
Though some shall walk in darkness,
And others in the light,
though some shall smile and others weep
In the slitence ouched with many hues
Your souls now clear and white :
od save you, little children
And make your eyes to see
And make your eyes to see
His fingers pointing in the dark
Whatever you may be,

March
bluebird flew from the sunny South.
A buebird flew from the sunny sound,
Ere the winter's snows had fled, He thought that he could be fed:
And why he came till he surely knev
That meads were green and the heavens blue ?
But the bluebird slept where the woods
And the dry barberries hang, And $\qquad$
$\qquad$



And the crystal skies turned gray. larch,
And the world rejoiced, for 10 ? 'twas
March.

Mary's Costly Clothes.


Essay I.
Country Chu
It was not a striking specimen of cclesiastical architecture either externally or internally. Like most of its neigh-
bors, it was but a white-painted, squarehors, it was but a white-painted, square-
walled building, unornamented save for walled tapering steeple, which pointed "The land that is fairer than day,
Which, by faith, we can see from afar." Ranged in front of the double-doored Ranged in front of the double-doored ous maples, stretching their leafy heads
over the sharp-pointed pickets, and the little gate that fastened with a hook in yard hugged the foundations of the
church as if the two were good friends; to the east stood the sheds, with the sorrel horse. Take it all in all, it was
indeed a homely church-old age and summer rains and winter snows, had covered the paint-streaked clapboards with a net-
work of wrinkles, and even a bit of gray showed here and there. The belfry, with
its tiny window-eyes partly closed, was sound asleep the day I wandered to the many a long year had "played the sexton's part," had just finished his weekly
sweeping of the aisles open. Dear-n-me-the same old knob that always creaked so in prayer time 1 The
same capacious woodbox in the corner of the anteroom; the same what ! crimson
cushions on the seats ? carets on the cushions on the seats? carpets on the
floor? matting in the aisles? a new railing in front of the communion table ?and even a new pulpit had introduced
self, displacing the high old box stall of my remembrance, which hid from view all
but the head and shoulders of the preacher. The Iconoclast had created say
havoc. The disappearance of the collection bags attached to long poles, and
high-backed family seat in the right-hand corner where Deacon B- sat for twenty
years' of Sundays, and half as many dence of it But it only needed a mo dence of it. But it ony needio a
mentary flight of the imagination to
store the former landmarks and repeople the old-fashioned seats with the religious
stalwarts of thirty or. forty years ago stalwarts of thirty or. Morty years ager was "In Memoriam" to some departed
saint. It only needed the birth of the thought to place mother in the pew under
the large window nearest the organ, and to put in the rack her Bible with the
brass clasps, and her black-bound hymnbook, with a cross pencilled opposite each hymn whenever it was sung. What an
array of pencilled stars surrounded "Rock of Ages," and "Nearer My God to Thee It only needed the merry twittering of sparrow on the window-sill to lead me to
lean over the ledge and peer through the lean over the ledge and peer through the
branches of the wild rosebush that clung fiectionately to the wall, to the marble-
lined streets beyond, and to mother's

book on't.". When last I seen and chat- "The Farmer's Advocate" prosperity was masing upon them, for
they had a "wee bit hoose at fity a year, a coo and calf, and a pig in the
HONOR BRIGHT $\stackrel{\text { sty.". }}{\text { Halton }}$ Co.

Seed for School Children. The work of the Schools Division of the 'Ontario Experimental Union has
proved so successful, that this year it is to be materially extended. Last year, children, and about 180 schools co-operated in the work, the seeds being sown and the work carried on either in the
school garden or at the homes of the school en, but under supervision of the
child teacher. For all particulars, write at once to the "Schools Division of the
Agricultural and Experimental Union,"
O.
 course, be sent only to sc sc.
Iren within the Province.
an tmportant question
Protessor McCready, B. A..., Protessor
Botany and Nature Study, O. A. Guelph, and one of the promoters of the
Experimental Union above referred to, ia Experimental Union above referred to, is
strongly of the opinion that we should
 have especials. We quote trom his report
rural schools.
for 1910 : "Why cannot we have our
 Rural School reacers
as the teachers who ore
teting experience
to so that they may take positions in the
so thws, not as the teachers who have towns, not as the teachers who have
failed in the towns and sought oblivion in the country, not as teachers who may
be hired at a low salary-but as experit be hired at a low salary-but as exper
enced, progressive, successful, well - paid teachers, who are permanently secured a teachers specially siutitd to work amongs iife there for themselves, their pupils an Their perents.
IIn this
t.
"In this connection, an endeavor was
made at Tor Toront last spring to bring
 oot the Public School Teachers' Depart-
ont of the Ontario Educational Associament ot While the oroposal found support
tion.
tron the teanhers of rural schools pres from the teachers of the teachers presentwho were un. Such an organization
neasure down

will come tater. when the work of the country school is seen to require a teache | of even greater gitts and equipment than |
| :--- |
| is required in the graded urban schools |


 with their 250,000 country school chil
den..".
Since the above words were written b Prof. MzCready, events have moved on
ward enough to show that he is no false
 prophet. beginning to demand
argricultural
aualifications arericultural qualifications te te
schools. Several advertisements effect have been noted in the "Treachers
Wanted" column of the daily press dur Wanted" columns of the
ing the past few months.

Old Maids

## The true "old maid," like the tre poet, is born, not made, old maidisthe

 peing a question of innate charecterrather than of incidental condition

 batten upon detuil, and abite in the nur-
rowest of narrow ruts.
lo o we not all rowest of narrow ruts with large taunilies
know married women with who are, nevertheless, old manids to the
backbone, iust as as know adtoratle backbone, just as an whe now
elderly spinsters who have the mintly of
 gind we not also know numbers of the (sit
dolled) stronger sex whose anbsorption
coll


## trade topic

## dictionary.-Every home should p

 sens a dilctionary, A new one very complete in all resppects, und in type that is
5 hy The Mucurillan Con conpany, St. Martin by The Macmillan Company, st. Mrice, only


6908 Child's French Dress


6956 Child's Bishop Dress with Straight L.ower Edg


$$
\begin{aligned}
& 695 \text { Childs Bislap Dress, } \\
& 6 \text { monthis, } 1,2 \text { and } 4 \text { years. }
\end{aligned}
$$



Please order by number, giving age, and


The Ingle Nook.

-FOUNDE1 1866







 "bond", was much tho largest present, sot was very nuct
woman present.












 have even been to town to thind out whai
as beins .shown this soason.
And so
 this yer? And what aree
 thin and sher materials overywnorer
There anco foulerd silks and tosca silks.













 skirt, extending up over the waist. Here
and there, too, -quite generally favored, and there, too,-quite generally favored,
indeed, -the high waist-line obtains, but
the tight princesse is as extinct as the the tight princesse is as extinct as the
dodo, and the strictly hobble skirt is fast

$\qquad$ give directions for making a pastry bag gest a good-paying occupation for a young girl of rather limited means, who
wishes to soon earn her own living I I
io not wish to do housework or n a factory. $\begin{gathered}\text { WILDFLOWER. } \\ \text { make two small }\end{gathered}$ Have your tinsmith make two small
tubes about two inches long, somewat
funnel-shaped, annel-shaped, one about threeeighths of an inch in diameter at the smaller end,
the other half an inch across. It does
not matter particularly about size of the

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mente mhich aro eo healing to the membranees
Other preparations will not worl in this lor



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| :--- |

Winter is Hard on the Complexion!
$\underset{\substack{\mathrm{It} \\ \mathrm{i} \text { ious }}}{\substack{ \\\hline}}$
5


S.ond complexion.
She guarditagainst
the se changes by
$\substack{\text { thesese cha } \\ \text { using }}$ Princess Skin Food





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 et " F " and sample skin food manted free. Hiscott Dermatological Institu 61 College St., Toront

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most fun to work it. Makes clothes spot


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shaped
ing
the
tube ne ube. Do small end. to opdit
tube, simply Yue, simply slip the latter in when re-
quired; it the opening in the bag is nough, the tube will stay in place while you are piping the mixture through. When
Ceady to use, put the mixture in the bag eady to use, put nough, twisting into whatever ornaemental shapes you please.
eve to boil the bag alter each using. sure to boil the bag after each using.
your occupation must depend upon your
out talents, of which we know nothing. There
 Writing, bookkeeping, nursing, millinery,
drosemaking, and
clerkling.
In
some dresesaking, and clerking. In some to be had, but librarians are beginning to demand assistants who have attended
 think out what you are best fitted for then specialize with all your heart.

Garden Matters
Dear Dame Durden, - My father has taken your paper for some time. I always en Ioy the Home Dopartent very much.
Iam writing to see it any of the cliat terers could tell me if it would be sat
to plant a garden on a pieco of new lan to plant a garden on a piece or new land
which was cleared and onow with pota-
toes last year.
The wireworm almost dostroyed the potato crop. Do you think
they would anfect garden vegetanlesp they would affect garden vegetables?
We have a great many dahia bulbs. Do you think it wo planted them in a box in you collar they would grow? We have
hot-water turnace, and cellar is quitedry hot-water furnace, and cellar is quite dry.
Have any of the chaterers grown dahias Have any of the chatterers grown dahias
from seed ? MISS M. E. J? Wireworms are likely to be destructive on aworms aro grovin things, particularly so
perhaps on root crops in the garden. perhaps on root crops in the garden.
However, it late fall plowing was done
to done to break up the pupwo and cells of the
beeteles that produce these worms
lend bethes that produce these worms, your
land wilf not likely be infested so much
this year. Wireworms are numerar. in in sod land that has asually most meent
brokon the broken up. Persistent plowing in lat
fall is the best remedy.
Dahlia bulbs may be Dania bulbs may be started in a box
in the house, but do not keep them in
the cellor the cellar after the frst sprout appears;
bring them to a window, and keep in a
temperatur temperature warm enough to keep them
growing slowly growing
enough
spindly.

House Decoration Dear Dame Durden,-Am writing to ask you atew questions on furnishing a par
lor. The room is very large, eighteen by twenty-one, and ten fee high. There are
three large windows, two facing the south, three large windows, wo tacing the son the
and the other facing the west. In
center of the outside wall is a freplace. What color would you suggest painting
the woodwork ? Would a carpet look the woodwork? Would a carpet look
better than a, rug in a large room like
this? Also, what color should the car-
 pet and wall paper be ? What kind
curtains would $y$ yuigest lace madras, or both you wuggest a rape, sten-
cilled to blend with the other colors of The rom, be all righ for the mantel
above the fireplace? above the fireplace? What kind of ma-
terial would you advise for stencilling? Thanking you in advance. SALLY. you might have the woodwork white, You might have the woodwork whitu,
you might have it stained in any woo
That Personally, I shoul
tint that suits you.
ike a large $9 \times 12$ rug-I do not like car like a large $9 \times 12$ rug-I do not like car
pets at all-but this is merely a matter
Re taste. Rugs are often made of strip of taste. Ruys are otten made of strips
of carpet, with a border all round, and
and are consern one piece. The colur of
those woven in ond
rug und wall paper must depend upon your


CYCLONE ORVAMENTAL AND FARM GAIES


wapch 16, 1911
tains, are good, if well chosen; also, pon
gee, with hace insertion, and net outside curtains next the glass. Drapes for mantele are seldom used now. If you want
to do some stencilling, better use it on cushions, or on curtains for living-room
or bodroom windows. Serim is a splen or bodroom windeos. did curtain material for stencilling; burlap and crash are very good for cushion-com
era, etc.

Soap from Goose Oil. Dear Dame. Durden, -I have often thought would of writing letters when one is always
husy. I am always intersested in your busp. Ant, I get so many useful hints trom it-your own, as well as all the
other chatterers, are so helptul. I
notited Nan's inquiry for a recipe for making soap from goose oin, so Ithought I my own laundry soap, and I use duck
oil, or dripping, which, I suppose, is about the same as goose oil. I use any
nutho or beef tallow I have with it: you know there is always some you don't use for cooking, especially after killing at ing all the year, and make my soap every winter. 1 have enough left that $I$ made ler, so I don't need to use the new till
 be all right by itsell, but it Nan would
 apound. Now I get Gillott's or Diguan's lye, and to enalf pounds of grease There are aways directions around the tins, and il Nan will read them carefully, and follow them precisely, I am sure she will have
fust as nice soap as I always have. gins to look creamy, or, as the directions says till it is of the consistency of honey,
else the elise the lye and grease will separate
hope this will be of some help to Nan
 Many thanks, Primrose.

## When the Fruit Runs

 Shopt.When the sealers are empty in the spring,

$$
\begin{aligned}
& \text { it is well to know a variety of ways of } \\
& \text { preparing the dried fruits apricots, prunes } \\
& \text { pren }
\end{aligned}
$$

$$
\begin{aligned}
& \text { preparing the dried fruits, apricots, prunes } \\
& \text { and fiss, also such fresh fruits as may be } \\
& \text { in season, e. g., oranges and bananas. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { in season, e. g., oranges and bananas } \\
& \text { Stewed Dried } \\
& \text { Fruit.-Wash the friu }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Stewew Dried Fruit. - Wash the fruit } \\
& \text { well, soak over night in warm water, then } \\
& \text { simmer in the same water until very ten- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { simmer in the same water until very ten- } \\
& \text { der. When nearly done, add a very little } \\
& \text { sugar.. Serve alone, or with whipped } \\
& \text { cream. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Apricot Sponge. - Soak } \frac{1}{\frac{1}{2}} \mathrm{lb} \text {. dried apri- } \\
& \text { cots over night, then cook until teuder. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cots over night, then cook until teuder } \\
& \text { Meanwhile, soak ounce gelatine in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Meanwhile, soak ounce gelatine In } \\
& \text { cup cold water for hall an hour. Drain } \\
& \text { the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the apricots, save the juice, and press the } \\
& \text { pulp through a potatoricer or colander }
\end{aligned}
$$

## MUSICIANS ADMIRE THIS

 SHERIOCK.MANNING
ORGAN
 May w send you full
details?
SHERLOCK - MANNING
PIANO AND ORGAN COMPANY LONDON, CANADA.


The Student Enjoys Life at ALMA COLLEGE

## because she studies in the atmosphere of a triue home, where he

 ecants are developed without forcing-where her education is mental, spiritual and physical, according to her needs. She has the advantage of individual instructiond an abundance of good and well served. She lives in desirable social surroundings. Her training at Alma helps to fit her for any pur suit in life-for home responsibinties. Sy course. Send fo ensive grounds. Tuition low, prospectus and terms. Alma means above all, character d.A., D.D St. Thomas, OntarioFOUNDEI

474



 BARRED ROCKS CANADA'S CHAMPIONS. PIVE-DOLLE WR COCRERERELS






 Bard


 Prizewiolaer
Port Artur
Artur


















THE FARMER'S ADVOCATE






 $\frac{\text { s. A. Hemmel, Box }}{\text { S. G. HANSON'S STANDARD }}$ WHITE LEGHORNS
Tho breding hens for tho season 1911
are part of the fookk of top pullets which
in January, Fobruary and March estab-

 nested hens with Individual reords in
heir pullot yoar of 200 eggs and over.
 aptionally $\frac{\text { good }}{\text { ond }}$ ress for hatching eggs well in advanco
ord

EGGS FOR HATCHING
March and Aprl1- $\$ 3.00$ per 15; $\$ 15.00$
May- $\$ 2.50$ per $15, \$ 12.50$ per 100.
$\$ 20$ per $15, \$ 10.00$ per 100 .
Prices of day-old chicks on application.
s. Hanson, Hillcrest Poultry Farm,
Box 147, Duncan, B.


## GOSSIP

BTRMINGHAM SHORTHOLN SALE.
At the Birmingham Shorthor Show and
Sales, March 1.3. there were 646 en-
the tries, and trate was fairly good. The
sensation of the sales was the purchase,
Wy
Wm.
 hass for bulls between 10 and 21 months
ld 250 guineas was the seond highest
hen The class between 18 and 21 months old,
Cunthorpe Model, contributed by Mrs. Chas, H. Dixon, Oakham; 240 gulneas,
was paid by Sir A. Henerson for C. E. was paid by Sir A. Henderson Yor Courth
Gunthers Tongswoon Hope, placed forth
in the class between 21 and 30 months. The same price was paid by Mr. Stewart,
Th English breeder, for the Hon. Wr. F .
and an English breeder, for the Hon. in the
D. Smith's Earl of Yowon, seond ind
class between 18 and 21 months old. Class between rie for a temale was 71
The highest priter the the seond-prize yearguineas,
ling heiter.
ayrshire club organized. The Ayrshire breeders of the Counties
Hastings, Prince Edward.
Northumber land and Durham and Peterboro, met in
Campbellitord on Tuesday, Ferruary 7 th and organized a local club of Ayrshire
The purpose of this club is In the main, to foster the interests Ayrhires in the counties named, ado
courage bereders more geneally to to
to
 locally in marketing their cattile and and gen-
produce to the best advantage, and erally to promote ecte bereres acquainted
reeders, and to become better The organization, as
one with another. The known as the "Menie Dis.
 mitcers
Honorary
President, Wm. Stewart
 resident, John McCubbin, Warkwrorth
Secretasy
$\qquad$ Trised to learn that there were so many other brother breders being some seventy local ece. In deciding upon a name for
or more. In Che .ocal organization, the members chose they took advantago of the reputation
$\qquad$
$\qquad$ from the start, which otherwise wo
take some time and much expense to
london hackney show.
The 27 th annual show of the Hackney Horse Society was hald at Islington, Lon-
don, the last week in February, and the





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

March 1 st, the 46 head sold
4 average price of $\$ 80$. The thy op price of the sale, and a yearlume the brought $\$ 300$.
Thomas, Jri, at Hopectarerons, III,
27 th, the 20 head
offered 

| ed mat. |
| :---: |
| $\$ 1,100$ |

Volume 28 of the Hackney Stuatoore
Great Britain and Ireland, has bea
It reat Britain and Ireland, has been
issued drom the press, and a copy rey
ceived at this orice, thanks to Seeretary
Euren, 12 Hanover $S$ Suare
Frank F. Furen, 12 Hanover square,
London, w.
This volume containg 475
pages, and pedigree records of stallions
mares numbering from 21160 to 21786 , a
mares of 982, together with rules od entry
-
We call the attention or storturn
reeders and farmers generally, to the
sale of Wm. Hamilton, of Bright, Ont.,
which is to take place on the 29 th of
March, at his farm, two miles from
Bright, G. T. R., and four miles trom
Inerkip, C. P. R., main line. ${ }^{\text {Thems }}$ Teams
will meet the morning trains at both sta-
will meet the morning trains at both sta-
tions. The Shorthorns are mostly of the
Cruickshank Buckingham strain, and con-
sists of a choice lot of cors and heilers,
sists of a choice lot of cows and heifers,
(mostly in calf) that are old enough to
rread. More notice will be given next
wreek. Meanwhile, make a note of the
, plo
donald ferguson's sale, short-
HORNS AND CLYDESDALES.
Pure - bred Shorthorns, Clydeadales,
Shropshire sheep and Yorkshire swine,
Shropshire sheep and Yorkshire swine,
the property of Donald Ferguson, Glan-
the property of Donald Ferguson, clan-
worth, Ont., will be sold by auction on
March 28th, as advertised in this issue.
By way of description, the Shorthorns
have chiefly been bred on the farm, al-
been added, as the proprietor has seen
Ait. Among the families included are
Kinellar Minas Bruce Rosebuds and Sit
tyton Village Blossoms and Duchess of
Glosters. The cows have been hand-
milked, and mostly used for combined
dairy

ten young bulls of serviceable age, which
should com
should command tho attention of pur
chasers.
The imported Clydesalale etal
chasers. Aorne Princo [4995](12230), is an
lion, Ltorn
excontionly well-bred horse, combining
exceptionally well-bred horse, combining
as he does, the blood of Prince of A1

has proved a good and sure stock-getter
and, as he is rising nine, ho has many
and, as he is rising nine, he has many
years of usefulness betore him. Severa
years, of usefuness berore him: Sever
likely, good young mares are also included
together with purarebed Shropshire shee
and Yorkshire swine, the whole torming
and Yorkshire swine, the whole eorming
and
particularly
attractive sale.
Intendin
a particularly attractive sale. Intending
purchasers will be met at Glanworth Stas.
trade topic
Two valuable books, one called "Point.
ors or Inventors,", and the onther "Point-
ss tor Patentess," are about to be pub-

lished the empst deang with metho saise inventors to raise
cessfuly employ thy
money to patent their invention, and the
money to patent their invention, and the
second dealing with the methods sucecesl


ents. Copies of these books can be ob-
taind at the nominal charge of 25 cents

They had reached the outer portals of
the front door, and were there going
through the process of parting, very lin-
through the process of parting, very lin-
geringle
(When II I say good - night to you this


hand?")" she sighed, sortly, as she laid



## How do you judge fencing?

Are you an expert? Do you know a good piece of fencing when you examine it? Or do you judge a certain make of fencing from the records it has made with your neighbors?

No matter how you judge fencing, you'll find the quality of the Leader fance fully up to your standard. It's a fence you can purchase with confidence, for our name stands high in the estimation of fence buyers. Our long experience and our reputation are a guarantee that Leader fence is top-notch in every respect.

Built throughout of No. clear and interesting
hard steel wire, with a double-grip lock, and galvanized according to our own specifications, the Leader fence will give you lasting service. It is built to stand the severe extremes of the Canadian climate. You cannot buy more value for your money. If you pay less than the Leader price you simply get lower quality

Send for our booklet. It contains fence facts you will be glad to know. It describes the Leader fence and the double-grip lock in a
clear and interesting man ner. It is a booklet you ought to have in your hand this very minute. We will also send a Leader fence lock free, if you'll ask us for one Tell us if you are ambi tious to become an agent for a complete line of farm and ornamental fence and gates. We've a good proposition for unrepresented districts. Leader fence is a wonderful seller, and we heartily co operate with our agents in securing sales.
Frame \& Hay Fence Co., Ltud. stratford, ontario


## Leader Fencel

 as compared with an average of $£ 534 \mathrm{~s}$. In 190. The total number, male and
inmale. 482, sold ot the 1911 event. mad an average of $£ 39$ he., as compared with
£ 48 2s., for 387 head, in 1910. The highest price for a bull at the 1911 sale
was 720 guineas $(\$ 3,775)$ The Was roan, King George, calved January 23rd $^{\text {Kand }}$, $\$ 3,775$ ), for the red 1910, first in his class (senior yearling).
bred by the Hon. Sir James Sivewrint, of Tulliallan, sired by the Saphock-bred bull, Broadhooks Earl (101655), and pur
chased by Mr chased by Mr. Rodgers, Manchester. Sec
ond in the same class was the red-roan Findon Beau Ideal, calved January Sth.
1910, bred by P. B. McIntyre Findo 1910, bred by P. B. McIntyre, Findo
Mains, sired by Findon Ventrilouis Mains, sired by Findon Ventriloquis
(102229), dam Butterfly of Findon, sols for 180 guineas, to C. Alberta, Canada.
Favorite, first in Favorite, frst in
class, calved March
w (84420), Bold to Lord Proud Favorite guineas. The second-prize winner in th same class, Proud Major, calved March
27th, 1910, bred by Jas. McWilliam, Mabel VI., by Bacchus of Dalmeny, sol


At the Aberden Shorthorn Sale, the
tolow ing day, the average tor 221 bulls





 Lyan, Alidert, seaured the third.prize esenior
yearing at Perth tor 80 QUESTIONS AND ANSWERS Miscellaneous.

INDIGESTION.
$\qquad$ after eating his meals. He eats well, but
does not put on any flesh, and is dull. Havo worked him but very little since
last fall. What would be good for him? Ans.-Your horse has weakness of the digestive organs. Be careful about mak-
ing any sudden change in his food. Give two drams each of gentian and ginger, REARRANGING STABLE. My barn is $60 \times 90$; stands east and
west, with drive in east end, and stone stabling, with entrance from barnyard on
the west. Have $16-\mathrm{ft}$. root cellar at east end all the way across stable. Horses
stand along the north side, and cattle on south, with two short rows about 18 feet
running from west end. Also have well
in stable; wis. in stable; water pumped by windmill to
trough in yard at west end. This leave much more room than is required for feed roorm. Can you tell me how 1 can re
arrange stables to hold, say 10 horses, diagram of present stables. Ans.-Without disturbing present rangement, would it not be possible
have another row of cattle extending from the end of south short row as far east as desirable. By having a five - foot feed
passage between heads of cattle, and al-
lowing seven and six feet for for sutter and manure pas-
sage, there would bo meta men Poot feed passage in front of horses.
Narrow passages behind the cattle involo Narrow passages behind the cattle invol
wheeling out the manure with a barro
or hauling out with a one-horse rig.

## MARCL 16, 1911

 GOSSIP. Thooe desirous of ottalining a Arst-telase importod Shorthorn bull woula do well co bull, Benenchio $=6955=$, oferod by Goo don, Aberdenssire, has just turred four years old, and is trom one of the best
cows in one of the best herds in Scotcoms in one of the best herds in Soct
land, ase his dam, Beatrice 2 2nd, produceed Mandaster, a Arst-prizo winner at the the
Ropal Show, and sold tor too guineas. Roval Show, and
His sire, Scotisis Farmer, a grandson ot


 (imp.).

## springbank ayrshires



 mature cow in the herd that will not give
50 lbs. a day when at her best, and
several give over 60 lbs. a day, and up several give over 60 lbs . a day, and up
to 67 lbs., which great yield was given
by Flora, of Neidpath
 tewer of Neidpath, gave 64t lbs. Four-
termance, and ten the the Record of Per-
Core no
Canadian Princes test. Canadian Princess, the are in the
champion three -year-old, hat and los. of milk, testing 4.59 per cent.,
and 521 lbs. butter-fat, in 335 days, This cow has a bull calf, by the stock
bull, Imp. Pearlstone of Glenora, of the famous cow, Imp. Edith of son nessock, whose record at thirteen yeurs of
age is 13,000 lbs., testing 4 per age is
Another of the great Princess pamily, and a sister to the champion, is Scotland
Princess 2nd, whose four-year-old record Princess 2nd, whose four-year-old record
is 10,182 lbs. milk, and 461.2 lbs. butter-
fat. Another sister. Scotland Princess 3rd, is now in the test, and in seven
months gave 9,706 lbs. milk, that has never tested below 4 per cent. Jemima of Springbank has a two-year-old record
of 8,839 lbs. milk, and 395.3 lbs. butter tat, in 338 days. This, at the time it
was made, was a world's record for the breed at two years of age. A foughter
of hers, Jemima 2nd of Springbank hers, Jemima 2nd of Springbank, as a
threeyear-old, is giving 50 lbs. a da
She, too, has a bull call by She, too, has a bull call by the old stock
bull, as has also her dam. Here

 Seck of Spring counts for anything holds the world's
record for a two-year-old, of 10 ant testing slightly over-ord, of 10,354 per cent... and a
the end of her year's
 weeks, bringing torth a heifer cals strom
which great things are expected
of frem
 Get this Genuine Alectride Tool (Grinder on Free Trial
 FOR ITSELF
LET US SEND YOU ANY OF THESE SPRAYERS-to try for 10 days,
then if you buy, you can pay us cash or we'll wait till you sell your crop, then you can pay us out of the "extra profit." We pay freight. Wholesale dealers" prices.


## - Man-Power Potato and Orehard Spraven

$\qquad$








COUPON - FIII Oui and sond to-day Mita


samb.



Is There Any Money in Dairying I once heard a farmer say that if the cows paid their own way he had the
manure pile for his profit. EASLLY SATIFIED WASNT HE?
 Why plunge along in the dark? For all you know, instead of the
DAIRY MAKING MONE TO KEEP YOU, YOU ARE MAKING DAIRY MAKING MONEY TO
MONEY TO KEEP THE DAIRY.

QUESTIONS AND ANSWERS,
Miscellaneous.


CURES EOZEMA.
 pel Hands and Face.

 Nio have nid it.

Write for Free Sample
Reclosk 2c. stamp for postait
50 c . a Box at all dealers or upon receipt of price irom
THE ELECTRIG BEAN OHEMIGAL CO.. Lto., OTTAWA.


0

QUESTIONS AND ANSWERS. miscellaneous.
a repaiting account

 downe and also to erect same. 1 prid him tor his work when he had finished. He has now sent in an account tor ree pairing root there
out.
Who sho should pay hime the one trom out who shout payl, or mysell? Nhom Ontario.
Ans-Whicherere employed him to do KNEESPRUNG Horse.


BRUCE'S BIG FOUR FIELD ROOT SPEGIALTIES



 Cibl


John A. Bruce \& Co., Ltd., Eamilton, Ontario.

ASK US ABOUT THE

## Simplex

 Link Blade SeparatorFor Simplicity, Perfect Skimming,
Easy Running,
Large Capacity, Durability,
Under a wide range of conditions.
We carry a full line of Dairy Supplies at
lowest prices. Write for our Catalogue
No. 5, and full information about our 1910 lowest price
No. 5 , and
machines.

Co., Head Office and Works, Brockville, Ont WeStern branch:
G. A. Gillespie, I4I Simcoe Street, Peterboro, Ont.

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Start a bank account for your boy. Let him form the savings habit while young, and there is little likelihood he will turn out a spendthrift later on. We pay $3 \frac{1}{2} \%$ interest, according to agreement, and offer you $\$ 2,000,000$ assets as security
3 $1 / 2 \%$ Agricultural Savings \& Loan Co. 3 , tratn of Longtelow is

D. Derbyshire \& Co.

FARMERS! GARDENERS!
You NeED THIS BOOK


|  |
| :---: |
| - |
| L | 8 to 16 ft . long, 10 in. and up diameter the bradiey co., hamilion, ont For Sale: Beautifully markect and fichly 1911, sire Mercena Mechthilde Prince sot of tild

Abbekerk Merce
 price \$60. with reg gistered pedigeree. O. A. C. NO. 21 gefd BARLEY and Shor Want and For Sale column if you want a supply of
the best barley ever grown in Ontario. It is as chea

 and an extra dark red calf
Jno. Eider $\&$ Son. Hensall, 0 ont Reglstered Canadlan-bred Clydesdales
 Columbus, Ont. Brooklin, G. T.R.; Myrte,C.P.R Corn That Will Grow $\begin{gathered}\text { Comptons } \\ \text { Early }\end{gathered}$ An early variete and arge ariter W. B. ROBERTS. SPARTA, ONT "My hardest work," replied Senator Sorghum, "Is trying to look like my
potograph and talk Mlke my epeecheis
whon I get back to my home town."


## AMERICAN FENCE



Heavy Fence Means Long Life Put the fence you buy on the scales. Any American Fence
dealer will be glad to do this for you because he is proud of the amount of steel he can give for the money American Fence is a heavy fence. The gauge of the wire is larger. Compare with any other fence.
is easily deceived on the size of the wire, so put on is easily deceived on the size of the wire, so put the roll convince you that the fence
the scales and weigh it. This test will coll the scates ant was cheap is most expensive when pounds of steel are
you thought wand
considered. Weight in fence means strength and durability, and our years of experience have taught us that the heavier
the better. No argument for light fences can dispute this American Fence is made of hard, stiff steel. It is made of a quality largest manufacturers of wire in the world Galvanized atest improved processes,
of years has taught. Built on the elastic hinged-joint (pat ented) principle, which effectually protects the stay or uprig
wires from breaking under hard usage.

The Canadian Steel \& Wire Co., Limited HAMILTON, ONT. WINNIPEG, MAN.



WHEN WRITING ADVERTISERS MENTION THE FARMER'S ADVOCATE

OUESTIONS AND ANSWERS Miscellaneous.
WARTS. A heifer has large, flat warts, as large
How can I as an egg, a
remove them? Ans.-Try rubbing with castor oil every
day. If that doos not remove the warts,
dress them once daily with butter of andress them once daily with butter of an-
timony, applied carefully with a feather. This will effect a cure in time.
EMMER VS. SPELT
s emmer or spelt "a proftable crop
w? Which of the two is the best? 2. Are they good to seed clover With
We have a very good piece of sandy loam, We have a ery gerished, we wish to get
but rather impover
into clover, but with oats it is a sure failure. Have heard that spelt would do
well on poor soil, and make a fine nurse well on poor soin, and $\quad$ S. A. O.
crop for cluver. other, but emmer is much the better
yielder. yielder. Both are really types of wheat
in which the chaff cannot be removed from
and in which the Chamer is grown largely in
the grain. Emmer
Switzerland, on comparatively poor soil, where other spring grains do not do well.
2. Either one would be a good nurs 2. Either one would be a good nurse
crop for clover. Spelt has yielded but
poorly poorly on the experimental plots at
Guelph. while emmer equals the best varie ties of oats or barley in weight of grain GREASE-OPHTHALMIA leg, principally around fetlock joint. Skin
is rough and scabby, and, when scab is
broken, seems to be moist, and hair comes
bomes out easily. Has been led clover hay, raw
oats in morning, scalded chop at noon and boiled oats at night, one gallon each
time. 2. Same horse had sore eyes last spring
one of the eyes is somewhat smoky one of the eyes is some. What could be
I think sight is affected.
done for this trouble?
H. C. Ans.-This is evidently grease, an ail
ment that is not easily cured, and re quires persistent attention. Treatmen
consists in first giving a purgative ball made up of 8 drams aloes and 2 drams
ginger, feeding bran mashes until purged
Follow up with 1 tounces Fowler's SoluFollow up with 1t ounces Fowler's Soly
tion of Arsenic twice daily for a week. Apply warm poultices of linseed meal,
with a little powdered charcoal every six or seven hours for a couple of days and
nights, and then apply, three times daily nights, and then apply, three times dally,
a lotion of lead and sulphate of zinc,
and 2 drams carbolic acid to a pint of water. Feed lightly, and give regular but gentle, exercise.
2. Bathe the eyes well and often with
warm water three times a day, and after warm water three times a day, and awter
bathing put a few drops of the following
lotion into each eye, viz.: Sulphate of zinc 10 grains, fluid extract of belladon
20 drops, distilled water 2 ounces. METHOD OF FEEDING STEER - CAROLINA POPLAR. . Have a man feeding cattle for me. He is feeding about a bushel of chaff and 30 lbs. of silage at noon, and a large morning. Steers leave about half their
hay in their stalls. I have been telling
 says that he has had a lot of experience,
and that he is feeding properly. and that he is feeding properly. Is
feeding them right? corn for the silo in Kent County, Ont.?
3. Is the Carolina poplar a good tree
o plant for windbreaks? o plant for windbreaks? fering a great
Ans.-1. Your man is feeding
deal too much at one time in the noon feed. If it is desirable to give so much
chaff and silage in one day, it would be
much better as you surpest, to divide into Nun WATERPROOP Clothing Made for hard service and suaranteed waterproof. TOWER CANADIAN OILED
CLOTHING CO., LTD. - Torento, Canad.
$\qquad$


FOR OUT DOOR WORK IN WET WEATHER rower's号 TSEB BRNID
If you doif you ver hant fish or
 Mount Birds s,
 Porinulity but write today for froo book and
full wer bult send to every man, woman FREE BOOK

nature lover should get these bopks without deay. so33 Elwood Bldg., Omaha, Nob.


LET THE WIND WORK FOR YOU Cut all your straw, grind all your feed, and
pump ail sour water at absolutely no exCANADIAN AIRMOTOR We mean it. We guarantee every wind
engine fe tintall to grive te maximum
power. for the size of wheel installed A A A Canadian Airmotor will run feed grinders,
strav cutters or pump as desired All
have to do is to throw a lever which puts the whee is gear. The wind Joes the rest.
thou should know what this means to you. Write for new catalof ue.
The Ontario Wind Engine \&. Pump Co. (Limited

OUT DOOR WORK

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$\qquad$

THE FARMER'S ADVOCATE.

MARCI 16. 1911
GOSSIP.
Young Aberdeen-Angus bulls, of service able age, also cows and heifers of the same popular breed, are advertised for
sale by James Sharp. Rockside, Ont., Sheltenham Station, C. P. R.
A big Selection of shorthorns. Robert Nichol, of Hagersville, Ont., G. T. R. and M. C. R., is one of the most extensive breeders of Shorthorn cattle in Western Ontario, as well as quite an extensive breeder of Clydesdale horses. The herd of Shorthorns number 64 head, among them being cows that year adter year are good for 60 lbs . of milk a dat, this, with a 4 -per-cent. butce 24 lbs . of butter in seven days. The foundation of butter in seven days. The foundation of
the herd, established many years ago the herd, estabished (imp.), by Snowball traced =, and Imp. Roan Duchess. On these were used Earl of Howard $=29986=$,
the Patriot (imp.), a son of a Mina, and The Patriot (imp.), a son of
Imp. Patience 31st (the majority of the
31 Imp. Patience s sere the get of this bull),
younger females wate
and Prince Misty $=65949=$, a Roan Duchand Prince Misty $=65949=$ a Roan Duch-
ess-bred son of Imp. Prince William. All the yearlings and young bulls were got by this bull, thus giving them a double-
cross of Shorthorn dairy blood. present stock bull is Duke of Clarence
10th $=80096=$ a 10th $=80096=$, a Melody-bred son of
Stamp's Guardian. It is unnecessary to Stamp's Guardian.
say, that in a herd of this size many
choice things can be singled out, low, and choice things can be singled out, low, and
deep-fieshed in type, and intensely bred on mill-producing lines. For sale are of
males of all ages, and about and males of all ages, and about a dozen
young bulls from six to firteen months of age, one of them out of Fortuna 13th,
that is good for 60 lbs. of milk a day on ordinary feed at every freshening. Many
of these young bulls are exceptionally well-fleshed, and good on their lines. They
are not held at extortionate prices, and are not held at extortionate prices, and
their breeding is the kind that is in great demand.
the hillview ayrshire sale. The catalogue of the Hillview herd of
high-class registered Ayrshire cattle, property of A. Kennedy $\&$ Son, of Vernon,
Carleton Co., Ont. (Winchester Station, C. P. R.), to be dispersed by auction, on
Wednesday. March 22nd, shows that the cattle are bred on heavy milk-produching
lines, first-class sires, imported or do lines, first-class sires, imported or do
scended directly from imported stock, having been used. The bull now at head of
the herd, Glenhurst Mains $-29903-$, coming two years old next month, included
in the sale, is a strong, large animal for his age, a son of imported Drongan
Mains, sold for $\$ \$ 00$ last spring, and out of Ada 2 2nd of Glenhurst, the best pro-
G ducing cow in the Benning herd, which
made such a splendid average when the herd was dispersed last year. Among the
cows in this sale is Flora of Hillview, in her fiveyear-old form, with a a record, of
65 lbs . milk in one day, and a prizewin ner at the Ottawa and oother a shows. She
is due to calve this month to the stock
is bull. Queen of Hillview, five years old,
by a son of the renowned Napoleon
St by a son of the renowned Napoleon o
St. Annes, and out of Flossy, by Victo of Maple Cliff, is one of the showiest cows
in the herd, large, smooth, and with well-halanced udder and good-sized teats
well placed. Violet of Hillview, elght
years old, is a large cow with larte years old, is a large cow, with large
teats, a heavy milker, sired by White
Prince, dam Mary motion (imp.). She is half - sister to Maud of Hipllview, that won first place a
the Ottawa Dairy Show in 1906. Lassi
of Hillvinus. the Citawa Dairy Show in 1906. Lassi
of Hillvinw, a four-year-old full sister to
Maud, Nove mentioned, which gave ove
9,000 , ha ideal dairy cow in every respect, and ha hal
a well-shaped udder and good teats. Poll
of Hill inv, hy the noted Glenora, by Come noted Corade's Heir
a very : rarlang, (imperge four-year-old mat ${ }^{2}$ promise oor-bear-old cow, heavy
milker. Her dam was a Dairy Show winmilker. Her dam was a Dairy Show win-
ner nt awa and Guelph shows, giving
day. These are representative
day in the sale, while a fine lot. day. These are representative

- in the sale, while a fine lot
r-old and yearling heifer calves,
of these and others in the herd these and others in the herd.
acter. make up a very desir-
, which should attract breed-
rymen in these prosperous

It's Easy To Get Good Results With gUnNS PRAIRIE STATE INCUBATOR

The novice at poultry raising finds no trouble in getting big hatches of strong, healthy chicks with the "Prairie State" Incubator.

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 and cleanes the eystem, wryit tor coughn condanteed to put your horse in
contion one
nost dealers. or Palmer Medical Co., Windsor, Ont.

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By It Neat Appearance you knowit is Frost Fence



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## LARGE CLEARING AUCTION SALE

Clydesdale Horses, Shorthorn Cattle, Oxford and Shropshire Sheep And other farm stock, property of John and Welley Wise, at the farm, one
mile west of Traction Station 84, two miles south of St. Thomas, Ont., on TUESDAY, MARCH 21ST.
$26{ }^{\text {HEAD of registered Shorthorns ; deep-milking strain ; } 23 \text { females and }}$ bulls. Also 20 head of high-grade cows, heifers and sters.
Clydestale
and Clydesdale mares and
oxford and Shropshire sheep. Sale to commence at i p. m. oxtard gue address :
cata
Locke \& melaughlin. JOHN \& WESLEY WISE, Props st Thomas. $\begin{gathered}\text { Auctioneers. } \\ \text { Ontarlo }\end{gathered}$
R. R. 4, St. Thomas, Ontario

## DISPERSION SALE

 40 shortitrom crictle 40 also HEAVY HORSES Reslistered Shropshire Sheep and Yorkshire Swine
 Tuesday, March 28th, 1911 COMPRISING: 14 COWS, 16 HEIFERS, 10 BULLS.
 $\qquad$ Also cott ann rites.
 DONALD FERGUSON, GLANWORTH, ONTARIO

AUCTION SALE $\mathbb{Z} \mathbf{O}$ HIGH - CLASS Registered Ayrshires WEDNESDAY, MARCH 22, 1911, AT 1,30 P. M, AT HILLVIE由 FARM, VERNON. ONT., WINCHESTER STATION. C. P. R Conveyance will meet morning trains. To be sold, without reserve, the
entire herd, wonsisting of 20 females either in milk or in calf, to heifers. from
 thos. Ruving
A. KENNEDY \& SON, VERNON, ONT.

## IMPORTANT AUCTION SALE Wednesday, March 29th, 1911 <br> Scotch - bred Shorthorn Cattle   <br> Capt t. E. Robson. London, W/m. Hamilton, Bright, Ont., Prop

## NORTHWEST FARM LANDS

cially selected in the most fertile districts.
Write now for particulars as to prices and location
STEWART \& MATHEWS CO., LIMITED Galt, Ontario.

## la. on ch ch $c$ 9 <br> \section*{class and first. fore

}
## GOSSIP. THE LONDON SHIRE

 The LoNDon Shire show.At the Annual Spring Shire Horse At the Annual Spring Shire Horse
Show, held in oondon, England, the thir
week in February, the total number of Show, held in London,
week in February, the total number of
entries was 641 . In a large class of 'wo-
 rist, with Marden Forest King, w os ord
Lockine Forest King Second was Lord
Middeteton's Birdsall Forest King. In a
 and E. . Winneran's Warton Draughts-
and
E. man seoond. The Duke of Westminster
was third with Eaton Nonsuch
Four-year-old stallions were led by last year's
junior champion, Sir Berkeley Sheflield's
Sinioton King, which held the same place In est King, by Lockinge
of the same age ove class for big horses 16.2 hands, Mr.
Grandage's champion of last year, Conqueror, by Montlord Jupiter, dam by
Blaisdon Conqueror, was easily first, and
and was also supreme champion as best stal-
lion, any age. The cup for the best stal-
lion, not over three years, went to Nulli
Secundus the leading three year-old, and Secur was reserve champion. The junior
he whe
champion mare
chas
shown by
shansmo Chessie, shown by Sir W. Greenwell, and the
grand champion mare was Pailton Sorais,
m. M. Michael's first-prize winner in the class
for mares over $16 \frac{1}{2}$ hands, a seven-year
oid daughter of Lockinge Forest King.




$\qquad$
$\qquad$
 subjecting the substances which go
make up sapphire and ruby in electric
furnaces. The resulting product was n gems, but what is declared to be mo
valuable a substance next to the dia
mond in hardness. This material is no noy
used by the Harman Supply Co. 610.61
Yonge street, Toronto, in the Harm Yonge street, Toronto, in the Harman
Grinder, for farm use. A limited num-
ber of these implements are to be se SMALL FLOUR MiLLS-Since the in
troduction of the roller process for grin





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Cured Her Husband of Drinking.
Wrile Her Today and She WIII Eladly Tell You How She Did It.



Not Your Home-but Is Yours Protected? U"iy don't you do something to pron
tect our home? hhousand and

thousands of homes are made safe by THE DODD SYSTEM | $\mathrm{C} \sum \mathrm{B}$ |
| :---: |
| r | Wet Dodd, orithatate of the Dodd sstum

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| Pine |
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## ${ }_{4}{ }^{4} 5$



MR. FARMER!
We want to get in touch with good, live, hustiong
barcu-a
"GALT" Galvanized Steel Shingle

 $\underset{\substack{\text { Kame } \\ \text { P. } \mathrm{O}}}{\substack{\text {. } \\ \hline}}$
Tho eatt Art Metal Co., Lid., Galt, Ont.

## march 16, 1911

DRUGGIST PRALSES D.D. D.
 Soid satitacton witht our elustomerss. about treere years, and nothing I Tried


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 matter what it is.
Write to-day for free trial bottle to the Write to-day for free trial bottle
D. D. Laboratories, Dept. A.,
borne street, Toronto.
(For sale by all Druggists.)

the : sutricient indignity;

THE FARMER'S ADVOCATE
QUESTIONS AND answers Miscellaneous.

## PIGS DYING

 Sow has ten pigs which seemed weak,and are dying off one after the other. Sow has been wintered on turnips and
mangels. Would the feeding of these
roots cause the above? Ans.-From such meagre information, it Ans.-From such meagre information, it
is impossible to diagnose positively, but
it may be stated with assurance that your sows were not well fed during the
winter. Roots are suitable as part, but winter. Roots are suitable
not all of a sow's rations.
RETENTION OF PLACENTA. Two cows have trouble in cleaning after-
pirth, and seem to have no appetite. They are both good cows, and never were
like this before. Ans,-It is a practice with some to give
cows, for a few days before calving, a pound of oil cake, pight and morning.
Many stock-owners place dependence on this as an aid to easy parturition and
natural removal of the afterbirth. Some natural removal of the arterbirth. Some
claim that flaxseed is better, and it looks
reasonable, though we have never tried it for this purpose ourselves. Only a limit-
ed quantity should be fed to cattle not used to it. The experience of readers on
this point is requested. LAND PLASTER FOR ALFALFA. 1. I have six acres of alfalfa on light,
gravelly soil. Weuld it be advisable to sow land plaster on it in the spring
2. Is plaster used as much now as was some years ago ? A. L. McK. Ans. -1 . We are not an experiment. It might prove beneficial, and we should like
to see it tried. If you do so, kindly re to see it tried. If you do so,
port results, whether negative or positive p. We believe not, though as a stable
absorbent it absorbent it might conceivasy prove plaster
profitable. For some reason, land
has been known to produce remarkable re has been
sults with clover, when applied on virgin soils: Subsequently, the effect of repeat-
ed applications seems greatly diminished MOTOR CYCLE DEALERS-COLT
DOES NOT THRIVE. - DOLS 1. Would you please publish the ad-
dresses of the different motor cycle com-
panies, as I am in need of a vehicle to dresses or I am in need of a vehicle to
panies, as ther
get over the road? 2. Have a suckling colt that does not
thrive well, and is in very poor condition thrive well, and is in very poor condition
ever since being weaned. I had him run-
ning with a sick ning with a sick beast after he was
weanned that was bothered with old age
Would Would he get the same disease from the
older beast Ans. 1 . For obvious reasons of business policy, we are unable to publish busi-
ness addresses of firms in our editorial columns.
2. If disaase, the colt might get the same
trouble, but such is not likely to be the case. It will, of course, contract old age
in time. Try feeding the colt a little bran and oats mixed, in addition to hay, DISK VS. SPRING-TOOTH CUL TIVATOR-WHEN PLOW SOD 1. For general tillage, which is the
more valuable implement, the disk harrow or the spring-tooth cultivator?
2. Should sod, which is being manured this winter in preparation for corn, be
plowed early in spring, or left until a couple of weeks before time to plant corn?
What depth should it be plowed?
Give general tillage to follow before planting.
W. S. McI. Ans.-1. That question can scarcely be
answered. The disk is much the better for
sod, and for finely pulverizing other land sod, and for finely pulverizing other land,
but for spring cultivation in preparation
for Por spring grain on land other than that
prowed out of sod, the spring-tooth is not
only better, but a great deal more speedy only better, but a great deal more speedy.
2. The plowing of sod manured for corn
had better had better be delerred until a short time
before planting. The rank growth of
grass which will grass which will have sprung up will act
as green manure, and have a good me
chanical chanical action on the soil. Agriculturist
Grisdale, of Ottawa, advises plowing not more than four inches deep. We confess
that we would go an inch or two deper.
Tillage before planting should be thor. Hage before planting should be thor
ough. Use disk or cultivator, harrow
and roller until surface is fine and vacant any culvert can serve.

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This picture is from a photo of a wash-
out fourteen feet deep in the Township of Darlington, caused by use of cement tile for drainage purposes,
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Here you see the Pedlar Culver Here you see the Pedar Culvert
doing its work of drainage twentyfive minutes after being put in place.
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last far longer and give no furthër last far longer and
trouble of any kind.


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to place, shows the immense strength and rigidity of these Culverts. Though forty feet long with a bearing of only a few feet at the centreit does not give
one-sixteenth of an inch. See how oeasily Pedlar Culvert can be lowered into place. No skill needed

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Heart Trouble Cansed Dtaxiness, Weriness and smothoring spolle.

Trough one cevep or amoletal aryo -ringh with ormo formof thet troulh Whene theop wo pickt Peyo with Hil will bo found to bo tho moit hotivo modicine on the martoct
Mr. I. Lealie Cuts. 114 Bid Ave, revtert of plopauro 1 wate Jen ctation
 Dend greathy from boart trento wich Codicine but received no bon ot A tried advied mo to bur a boor of your
pimh which bodid Itininut recommend theng tro boxin 1 Hithy reoommend theon pull to any
 so ealers, of meiled diroot by 4 the $T$. MT

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After Thirty Years' Experience I Have Produced An Appliance for Men, omen or Children That ures Rupture. I Send it On Trial
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trent
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The above is C . E. Brooks, of Marshall, Mich
who has been curing Rupture for over who has been curing, Ruptare for ov
$\mathbf{3 0}$ years. If ruptured write and I will gend you free my ulustrated book on
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showing my Appliance and giving you pricese and names ot many people
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Percheron, Belgian, Shire and Hackney Stallions and Mares. As 6ine a lot as
old with lots of
 ew W. Cochran, Crawfordsville, Ind Clydesdales $\begin{gathered}\text { FOR SALE I Imp. and } \\ \text { dian-bred stan }\end{gathered}$
 6 Imp . Clydesdale Stallions

QUESTIONS AND ANSWERS Miscellaneous INOCULATING ALFALFA SEED To whom should I write at the O. A alla information through your paper? T. G. Ans.-Apply Prof. S. F. Edwards, Bac teriologist, O. A. C., Guelph, Ont. In
tructions will come with material. NEGLIGENCE CAUSING INJURY I hired myself to a farmer, and every wheat. Before we put the load up, I said to my boss '"The rack - lifter isn't sale, but he only laughed. Well, the watch when the load was up to give th
signal to stop. Then I had to look to see if the props were in. Just at that, shoulder. Then I was laid up for two time and doctor's bill?

Ans.-We think you are in a position to
sue your employer for damages for neglgence, and that in arriving at the amount
of such damages, the items you mention of such damages,
should be included
PROPAGATING BUSH FRUITS AND GRAPEVINES, How are red currants, black currant
gooseberries and grapes propagated? Ans.-Propagation of all the fruits mentioned is by means of cuttings; that is,
by sections of new wood about a foot in length, completely severed trom the bush or vine. These may be taken off now, and two-thirds of their lower ends burie
in the ground until early spring, wher they can be planted out either in nursery
rows, or where they are to remain. In order to have plants of the gooseberry
and currant which shall not throw and currant which shall not throw
suckers, it is only necessary to cut out every eye or bud to be placed below the
surlace of the ground. Cuttings of these will succeed almost as well if taken off in spring, but this must be done very early
on account of the season at which growth starts.
Grapevines are sometimes propagated by layering. This consists in bending
down and covering with earth a part of down and covering with earth a part of
length of young wood, leaving basal end
attached to stem, and outward end uncovered. It will root readily at any
buried joint. When wanted, the counec-
tion with mern tion. With main vine
roeted plant dug up.
SETTING DRILL TO SOW MIXED GRAIN-JOINING LATERALS TO MAIN TILE DRAINS 1. In sowing Mandscheuri barley and
Daubeney oats at O. A. Ci, rates of one bushel each, how would you set a Massey-
Harris drill to sow the above? Said drill is made to sow barley on one side
of feed run, and oats by reversing plates. Also, in sowing rape with turnip seed-
drill, so many pounds per acre are recom-
mended to be sown. Would like to know how it is done ? drains, laterals into
2. In joining tile
anden Are there any tools made to do the job with, or in what way should a hole be
made? May be in the the center of a tile: or, if cominy in the joints between two tile
Also, what is used to cover around or der the splices: pieces of tile, or stones
axperience of others would be welcome.

an be answred from or ask te agent
veriment with drill, or
nusibly some madirs have had the necesussibly some madirs have had the neces-
nvery


To Buyers Looking for a Good Stallion: I have imported Percheron Stallions for years. Aways bought from the best breeders in France, to the fact that I have won this year at Toronto irst and second aged class sweepstak esian in aged class, first, second and third in 3 -year-old class, wweepstakes and gold medal. Those horses are beautiful dapple-greys and blacks, three to four years old, weighing 1,800 , beautiful heads and necks, the kind that good buyers are looking for. I do not intend, and I will not allow, if I can help it, any one to give more quality breeding for a fixed price than I will.

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 able dors. Horses for Northwest trade a speclaity.
.HERBERT SMITH, Manager

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WILLOWDALE STOCK FARM HAS NOW FOR SALE
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fillies a bigger selection, better breeding, bigger horses, more
character, more quality, more right-down bigh-class individuality, character, more quality, more right-down bigh-class individuality,
and will sell them for more reasonable prices, and give better terms,


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MARCH 16, 1911

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in $3^{\circ}$ minutes. in ${ }^{\text {Wo minutes. }}$ th take the
thickest coat and thickest coat and
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use. Can't get wrong
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om all the leading stores. Manufactured by
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dUNHAMS' PERCHERONS
4. For forty-six years renowned large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as
each animal was individlected for size, bone quality xcellence. If you want choice illustrated, write for cata-
S., J. B. \& B. DUNHAM WAYNE, ILL.
ont.
ng a choice
nes are right
P. O., Ont.

THE FARMER'S ADVOCATE.

QUESTIONS AND ANSWERS Miscellaneous.
blood Clots in egas
 vegetables for the farmer's garden.
think you did this ago, and it was a great help when make
ing our seed ing our sed orders in the spring. 2. What is the cause of blood spots on
the yolks of fresh eggs.
throke an ogg this morning and courd not bioke an egg. it. It
was not twalve hours ond city buyers would say it was not fresh
We
We We are getting between twenty and thirty eggs every day $\quad$ SUBSCRIBER'S DAUGHTER.
 shortly. best authorities attribute the
2. The cause of blood clots in eggs to continued
feeding of rather stimulating food and rapid laying, which perhaps means that
the ovidy. the ouriuct is to a greater or less degree
infamed. A change in ration would
prot probably be benefcicil, with the addition of green food. Meat, pepper, or any sot
of irritating food, is to be avoidee dUtCH SETS FOR ONION CROP I have two acres of good, rich ground,
plowed, and am going to get it harrowed, plowed, and am going to get it harrowed,
rolled, ett. 1. How many bushels or
required to plant an acre ?
2 When should I plant ?
3. What is the cost likely to be? 4. Have a wheel hoe, and can do all
the work myself. If expense is $\$ 100$ per acre, and yyield 450 bushels, what should
proit be if all work be done without hiring, the only cost being freight to city.
5. Are onions likely to be proitable? I. had two acres of seed onions last
year and they did well, but were rather
 sets this year. onion Grower. Ans.-1. About eight bushels of sets are required to plant an acre.
2. Planting should be done as early in spring as possible.
3. Sets cost, at special rates, from $\$ 4$ 4. Profit depends on price. Last season, in Essex county, and in the scot-
 85 cents per bag of 77 lbs. at the sta-
tion. Usually, the price is somewhat $\underset{\text { 1ower. }}{\text { 5. }}$ A lower price for the coming season would not be unikely, but rather prob
Woutice
Nhat
David Chalmers able. Notice that David Chalmers, of
EEsex county, in March 2nd isue, esti-
matas cost of raising onions per acre at \$110. -ALFALFA.

1. When would be the best time to sow
rape for a couple of sows due to pig rape for a coupte of sast them through
first of June, rape to last frrst of June ral? With the average-sizo
summer ind fall? summer, what area would it take?
litter K
2. Kew of a couple of men, neighbors, 2. Knew or a couple of men, neighos,
each of whom sowed rape tor his hogs.
The skin peeled of parts of body and The sknn peven ends of ears came oft of
tails, and even
hogs. Whas rape the cause of it, as they hnow of no other cause ?
3. Would buck wheat do well
kn sod plowedi in either spring or fall?
4. If alfalta were sown behind the drill, fould the harrow and roller put it int
A SUBSCRIBER.
deep? deep?
dns.-1. Rape, sown about the middle
Af June, would come to full growth by
 course be pastured forth renent, and
could be counted on ore the remaider of
the season. We should expect that about an acre and a hatif of land, it fertile,
would be sufficient. Grain feed should
 2. No doubt it was.
tice that has been no- ocasionally,
hogs on rape, become affected with an obsure
skin disease, especially it allowed in the rape when the leaves are stif with
noisture
5. Buckwheat should do well on tallor sprick-plowed sod, especially it several
ourface cultivations are given before seed-
surne ing. It is common practice with some
to take orif first clover corop, plow imme



Imported Percheron Stallion, MARATHON 55330 (68658)
 1910. Property of and at the head of stud $\begin{gathered}\text { Dunham, of Wayne, Ill. }\end{gathered}$

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or pank kiluer for tue muman boot Combault's
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 eg, and used one bottle of ABSORBINE, and
eured him completely W, F, Young, P, D, F., 258 Temple St, Springfieid, Mass, MESSRS. HICKMAN \& SCRUBY Court Lodge, Pgerton, Kent, Eng.
Exportern of Pedigree Ltve Stock of all Descriptions From now on we ehall be bhipping large numbers of
horsea of all breads , and buyers hould write ur for
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## clydesdale

 STALLIONSFour and six years old. Both dark brown
Sound and right, with best of breeding Wm. Meharey, Russell, Ontario Clydesdales AND TAMWORTH SNIN Sale Reg Cldespale stal


THE FARMER'S ADVOCATE
FOUNDFI 1866

QUESTIONS AND ANSWERS Veterinary

CATARRH AND ECZEMA. Cat commenced to sneeze a year ago,
nd got worse, until he discharged matter trom the nostrils. This winter his fur began to drop out and I destroyed him. I have two other cats showing simiar Ans.-Give the cat grain quinine and 1 grain sulphate of copper, three times daily. Give a bath in a warm threo-per cent. solution of creolin once weell LAME HORSE
Occasionally, for a year, my horse has gone lame on hind leg when trotting, bu
he walks sound. For the last six months he has always trotted lame. When standhe has always troted on the
ing, he rests the foot on

Ans.-The symptoms indicate what
called "an occult spavin." The lameness, called "an occult spavin." The lameness
in many cases, cannot be cured. The
The best tr
hock.

## FOUNDER

Mare aborted on February 1st. Next morning she was foundered. I have poul-
ticed and blistered her, but she is no bet
P. G. McI. ter.
Ans.-This is called parturient laminitis,
more And your treatment was correct, if you attended properly to details. Give her
purgative of 8 drams aloes and 2 dram ginger. Remove her shoes (if she hav
any on), pare the heels well down, and any on), pare itice of hot mashed turnips. Kapp hot by occasionally pouring ho
Keater on. Change the poultice about water on. Change the pouitice abouth
every 8 hours. Attond well to this until the acute
take four take four or five days: Then, if any once monthly until it disappears.

NASAL DISCHARGE
WORMS

1. Have a bunch of yearling calves that
are growing well and eat well, but, when are growing well and eat well, but, when
drinkling, rom their nostrils diseharge a
thick, white substance, that sinks in the thick, white substance, that sinks in the
water. water.
2. 2. Have a herd of hogs that are not
doing well. 1 I killed one, and a postmortem rev.
intestines.
Ans.-1. This is due to inflammation of
the lining of the sinuses of the head Keep comfortable, and give each 20 grains
powdered sulphate of copper., three times powdered salphate of copper, three times
dailly. They will not thrive until rid of the
1. TTy worms. Make a muxture of 1 part oil of
turpentine to 7 parts raw linseed oll. Fast the pigs for 12 to 14 hours, and
then give from 1 to \& ounces of the mix-
ture, according to size of pig. Repent ture, according to size
treatment in a week.

Miscellaneous
CLAIMING CEATTELS
 Aons, all men, working out for farmers.
They live together in a house on ten
heres acres of land, which they own. Also,
they have a horse, cow, buggy and cutter
among them. among them. The father contracted a
debt debt, and he cannot be got to pay or
work it out.
wermer should sue the father, can he claim to own nothing ?

that 'the article is thoirs, and not the
father's-or will the farmer be requited to prove ownership of the articles attached?
FARMER. Ans.-1. It is open to him to do so.
2. The bailli-assuming that judgment
2. has been obtalned in the Division Court
and Execution issued-could make such seizure, subject, or course, Tould then have
exemptions. The sons woun
to assert their claim, if any. Upon their doing so, the next step would be inter
pleader at the instance of the bailiff. In the trial of the interpleader tssue between
the Execution creditor and the claimants
under the clrcumstances, the claimant should be pl
den of proof

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 Pratts Animal Regulator makes horses look better, work better and werfect digestion, and puts every ounce of food into strong muscle and pure blood.pratts.
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subject to disesse. Prats Animal Regulat has thousands of dollars for
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Canada and the United States the grand total of 40 championships against all comers pionships sides of the line, besides dozens of firsts, seconds and thirds. We never had a better lot on hand than just now. They were winners in

Scotland, winners at New York, and winners at Guelph and Ottawa. They are the best types of the breed, with and character, quand we sell them as reasonably as inferio ones can be bought, and give stallions and fillies and Hackstallions and filies and Hack Long-distance 'phone. Our barns are situated at Bedford Park, 3 milles north of Toronto. Take Yonge street car. Address all correspondence, Bedford Park P. O.. Ont
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see this stipment before purchasing elsewhere. By doing oo they will save fundreds of CLYDESDALES-Imported and Canadian-bred

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demands for the med demands for the best and most fashionably bred representatives of the breed.
anever undesold and
anive faverable terms. A FEW CLYDESDALE SELECTS LEFT. $\begin{gathered}\text { I have one } 6 \text {-year-old } \\ \text { Clydestale stall } \\ \text { that } \\ \text { that is hard to beat tor size, quality and breeding; } 6 \text { others, rising } \\ \text { years, that }\end{gathered}$

n
Mount
Mount fict jost now offering exceptional values in. Clydesdale and Hackney stallions and


MARCH 16,1911

## | Gured IIIy Rupture

Will Show You How To Cure Yours FREE.
I mas hapless and bed-riden Ror foars from ${ }^{2}$ Couble rupture ill Hot operated on If fooled them




 ABERDEEN - ANGUS
 Shorthorns, Cotswolds, Berkshires.

 Station and $\mathbf{C H}$. $\mathbf{0}$., GLENGOW SHORTHORNS

4ave on hand four young bulls om 10 to 13 months old; also
number of choice heifers. number of choice heifers.
narticulars write:
Wm. Smith, Columbus, Ont FLETCHER'S SHORTHORNS
 Archer, ; dam Beatrice 22 2nd, which produced Band-
master, the first-prize Royal winner. GEO. D. FLEECHER. $\begin{aligned} & \text { ErIIS Sta., C. P. R. R. }\end{aligned}$ JOHN GARDHOUSE \& SONS
 ambs. Weston Station, G.T. R. and C.P. R.
long-distance HIGHFIELD, ONTARIO.
phone. Aydesdales, Shortherns and Cotswolds citer and cows with calf or calves at toot, also one
two-vear-old Clyde stallion-a neat one.
 4 Shorthorn Bulls
 lechmond Hill, intario. A number of red and roan bulls, 6 to 16 months, by

 ctarne pel shorthorss-Fol



QUESTIONS AND ANSWERS Miscellaneous

## WART ON SOW.

 Sowieats.
LAME HENS-ROUP
Two or three of my chickens seem to
When I feed them, they hop around very stiff for a few yards, then lie down again.
Otherwise they look healthy enough, nice and red in the face. 2. I also have two, each with a sore
eye on the right side right side of the head, around the eye, is
rish side the hear. The swollen, and the eye is pale and watery, and also discharges matter. There does
not seem to be anytning the matter with Ans.-1. These chickens have probably had roup, and have been left weak, and
the lameness has resulted from the lack of grit and lime. See that they are sup
plied with these, which are necessary to plied with these,
health in chickens.
2. These have roup, a dangerous and
infectious disease, which may start from infectious disease, which may start from
a simple cold, caused by a draft, or from too warm quarters, or trom filth. The
affected birds had better be separated from the others, and their heads bathed with a five-per-cent. solution of potassium permanganate. Place as much of
the permanganate as will lie on $a$ fivethe permanganate as will
cent piece in a gallon of water. Use this for the drinking water of the rest of the for the
fow wh.
infection.
SCALY LEG-OATS AND WHEAT BEST VARIETIES - NITROBEST VARIETIES
CULTURE-WHEN TO SOW
We are very much pleased with your paper. It certainly gives us a lot of
helptul instruction. My wite enjoys very
nuch Hope's Quiet Hour, and The Ingle much
Nook. 1. Our hens' legs are very scaly. In
fact, some of their legs are all covered with white scales. They pick them some2. Which do you consider the better kind of oats, Gartland's Abundance or
the American Banner, and which is the the American Bamer, and which is the
better wheat, the Early Windsor or the Dawson Golden Chaff? 3. How much culture is required for
treating 1 bushels seed of allalla, and treating $1 \frac{1}{\text { g bushels seed of alfalla, an }}$
how much would it cost me? how much would it cost me ?
4. When, during seeding time, do you recommend sowing peas, in the beginning, full of the moon has anything to do with Ans. -1 . "Scaly leg" is caused by a
mite which burrows under the scales o the feet and shanks. It is contagious,
Treatment consists in soaking the feet Treatment consists in soaking the fee
and legs in warm, soapy water, to loosen and legs in warm, soapy water, to
the scales, and brushing vigorously with
and an oly
applying sulp hur ointment, or a mixture
of lard and kerosene. Sulphur ointment of lard and kerosene. Sulphur ointment
is made by mixing a teacupful of lard with a dessertspoonful of sulphur.
2. On the experimental plots, 2. On the experimental plots, O. A
C., Guelph, the American Banner oa
yielded two bushels per acre more tha yielded two bushels per acre more than
the Abundance, in the average of several
years' test, as reported in 1909, and
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ from the Ontario Agricultural College for
experiment, and we are not sure whether experiment, and we are not sure whether
more could be obtained by one person in
ane season. However. one season. However, you might try.
4. The average of five years' experi-
ments at the Ontario Agricultural Col Lente, indicated the advisability of sowing
legring grains in this ley, oats, peas. Where the pea weevil is
troublesome, it wise to defer sowing troublesome, it is wise to defer sowing
until the last or even the 20th of May;
otherwise it is desirable to sow moder ately early, though a delay after the
most desirable date does not cause so

serious reduction of yiolds $|$| $\begin{array}{l}\text { serious red } \\ \text { other grains. }\end{array}$ |
| :--- |

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By
The Philosopher of Metal Town

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 miog teren prices very reasomale. JOHN MILLER, BROUGHAM, ONT. Woodholme Shorthorns are of the richest modern in type and quality. For sale : One and
two-yearo-old heifera,
several loung bulls, thickG. M. FORSYTh, Claremont, Ont MAPLE LODGE STOCK FARM MAP
SHO
SHOR SHORTHORN BULLS FOR SALE
 A. W. SMITH, Maple Lodge, Ont. HIGH-CLASS SHORTHORNS
 Want a show bull or heifer, write me. and station
GEO. GIER, Grand valiey P. SPRING VALLEY $\begin{gathered}\text { It you wat } \\ \text { y ood } \\ \text { whort } \\ \text { Shor }\end{gathered}$ SHORTHOR N S Canadian-bred and imported. Femates all agees
Aloo fee Eood $Y$ YRKSHIRES-boars and sows Prices right
Phone conection. Kyle Bros., Ayr, Ont Shorthorns
 Cedardate shorthorns
 4. Whorthorn Bulls with size and quality. Sever Thomas Graham, Port Perry, Ontario. Imp. Scotch Shorthorns t. When lookings


QUESTIONS AND ANSWERS Miscellaneous.
everlasting
Please give information respecting the winnings of the noted Clydesdale stallion,
 OLD SUBSCRIBER
Ans.-We have no means of tracing the vinnings of Everlasting, further than that he was first as a yearling in 1901, and champion in 1902 and 1903, at the Highland and Agricultural Society's Show, besides winning later many premier honors, though, like his sire, he has been retired trom the show-ring for some years. losing a section of udder. I have two splendid cows which fresh-
 January. She milked right along. The other cows did not get in call. Each of
those cows give thick, mattery milk out
of one teat. What can be done for of one teat. What can be done for them? The affected quarters seem to be shrinkFARMER.
Ans. There seems scarcely any hope of Ans.-There seems scarcely any hope of
saving the affected quarters of udders, but saving the affected quarters of udders, but
it would be wise to try bathing twice a
day for a week with hot water, manipulating freely, and, after rubbing dry, ap-
ply goose oil, well rubbed in. Draw out
 som salts, followed, after purgation
ceases, with a dessertspoonful of powdered saltpetre, in food.

## SURROGATE FEES, ETC.

 1. In probating a will to an estaprobably $\$ 10,000$,' providing one sm probaity and a few minor claims, wh wh
annuity and
should the fee be in the Surrogate Cout should the fee be in the Surrogate Court
2. What should the fee be for registerng. Executor's deed and release of claims? 3. What should be a reasonable fee for 1. Can the future owner mortgage or
sell such "state, or part thereof, without ralease of annuity claims? FARMER'S FRIEND.
$\qquad$
$\qquad$ able to site then dusimed fient.e.e are un-

H. CARGILL, \& SON
 John Clancy, Manager, Cargill, Ontario.

MARCH 16, 1911


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 you can buy for how litte money.
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 J. W. Richardson, Caledonia, Ont.


 Walburn Rivers, Folden's, Ontario


 Elmwood Holsteins $\begin{gathered}\text { Offer choice young } \\ \text { cow sh tre fren }\end{gathered}$



 Holsteins and Tamworth for Sale-Sever
 Holstein Cattle ${ }^{- \text {The moed mot proftable dairy }}$

 Evergreen Stock Farm | offers bulll 2 to 12 |
| :---: |
| months, from high |


 strain. Trairn iew dockn, from best producings
Harrietsville. Ont. Glenwiod Stock Farm

 Ridgerale Holsteins bull caves thet three


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. Miscellaneous.
BEST VARIETY OF OATS. Which oats, do you think best for clay
loam that is well surface drained? Ans.-There is room for great difference
of opinion, but so far as our observation
goes, there has appeared nothing to beat goes, there has, appeared nothing to beat
the American Banner for all-round utility.
See variety - test reports from ExperiABORTION - INFECTED BULL. Kindly publish the remedy (if possible) Kindly publish the remedy (if possible)
for a sire failing to impregnate the cows.
He served cows some months ago that had He served cows some months ago that had
aborted. May that be the cause? We
and have not had any trouble of this nature
for some years.
SUBSCRIBER. Sor some years.
Ans.-There is 1 litle doubt that the bull
is infected with the abortion germ, and, in all probability, is infecting the cows
to which he is bred, but this infection does not necessarily cause his failure to
impregnate. It will be necessary to cease breeding operations with him for five or
six months. In the meantime, you will need to inject his sheath about every
third day with a solution of corrosive sublimate, 50 grains to a gallon of water,
and heated to 100 degrees Fahr., and, when he is bred again, his sheath should
be flushed out, both before and after breeding. 2 has a raw wart on the side of her face.
Would you kindly tell me how I can cure It have a feld of fall wheat, top
2. I hessed with barnyard manure. Would
deesen alfalfa seed do well in it, to sow it this
spring? About what time? The land Ans.-1. Warts with small neckks can be dissected off. The raw surfaces should be
dressed once daily for three or four days dressed once daily for three or four day
with butter of antimony, applied with feather, and, after that, three times daily
with one part carbolic acid to thirty parts sweet oil, until healed. 2. Some claim to have seeded allealfa
successfully with fall wheat. A few have sown it on the snow or on frozen ground,
like clover seed; others wait and harrow the seed in. We should prefer to wait until the ground is fit for the harrow, be-
fore sowing allalla on wheat. A double
stroke of the harrow alter the seed is stroke of the harrow after the seed
sown, followed by the roller, would
cover it.

MAINTENANCE OF DITCH
There was a large drain dug through
my place two years ago and this drain Act. There were a large number paid towards digging this ditch. Size of
ditch is 15 feet wide by $3 \ddagger$ feet deep, and now the banks have crumbled down, and part of the land is sandy. On my place, and on the next lot, there is a lot of
sand in the bottom of the ditch. The What I want to know is, who is to take
this sand out of ditch, and will each of us have to take our share of the sand;
that is, as far as the ditch goes through
each lot, or will I have to take all
If the of the sand? I went to our Council last
fall to get them to take this sand out, ter, for they said they did not know who
had to do this work. My assessment on ditch was $\$ 315$ for 137 acres; my next
neighbor's was $\$ 85$ for 100 acres.
He has about as much ditch as I have. He
says he will not take any of the sand on his place unless he is paid for it.. Can
he be made to take his share of the sand? Ans.-You and your neighbor are both
required by the Act to maintain the ditch in the proportions provided in the award,
and in the event of your neglecting to do so, such maintenance may be enforced a
the instance of any of the owners-partie the instance of any of the owners-pared by
to the award-whose lands are affected
the ditch. The manner of such enforce ment is set out in the Act. But either
of you may now take proceedings for a
reconsideration of the award. Such proreconsideration of the award. Such pro-
ceedings would be similar to those pro-
vided by the Act for the case of the con-

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be made. Your dealer probably has them. If not, write to us.
MOOR's Paints asd Var-
mishes for overy Purpose.
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 BUSINESS-BRED AYRSHIRES CRAAGALEA A ARSIRES




 N. Dyment, R. R. No. 2, Hamilton, ont. Pravic narRlis, mount filli, ont

 AYRSHIRES. - Imp.
 PLEASE MENTION THE ADVOCATE.

.
Stockwood Ayrshires imand


## Caught a Cold

Which Ended in a
Severe Attack of

## Pneumonia.

Too much streas cannot be laid on the fact that when a person eatches eold it must be attended to immediately, or serious resulta aro liable to follow.
Bronchitio, Popumenis and Consurnaption are all cemed by negleoting to cure the rimith eoll.
Mra. C. W. Bewman, Pattullo, Ont., writes.-athoes Jeare ago I esugght a cold which ended in a eevere attack of Pineumonin slace that that at the begnaing of ench whter I voem to catcit 1 cold very ins. I havo bran so hante 1 wan molbt to the reom. Led wintor, hand ant the reom. Ine to try D.
 Weal's Ived Le. I bought a botte and tollueth wis lult and I wes eotliteth evel. I sho find it a good madicien for the cinlive when thoy have ootic. - nowee de the ming mitatione of Ir. Wenis livio rioo byip. Mt Sor "ps. Woodt" man en ane Whis jou et for



 An old Pennsylvania German living in the mountains had a hard three hours
dusty walk to accomplish one morning and he rose very early to make his start. He had gone but a little way when he
was overtaken by an automobile, which Was overtaken by an automobile, which
was probably the first that had passed was probaby the the driver picked up
along that way. They
the old man, and there at his destithe old man, and they were at his desti-
nation in about twenty minutes. "Danks so much awfully mit de ride. If I had
known myself to be here already two hours in front of de clock yet I vud be at home fast asleep already to start un-
less I knew you vud not have picked me less I kne
up since.

## CARRIED GLADNESS TO THIS HOME

Mrs. Annie Vanvorst's Heart Disease Cured by Dodd's Kidney Pills.

She found quick rellef in the old vises all her friends to use Dodd's kidney Plils.
St. Benedict. Sask., March 13.-(Spe-
ciai.).-Gladness has replaced the anxiety
that reigned in the household of Mrs. Annie Vanvorst. of this place. For some
time past Mrs. Vanvorst had suffered from time past Mrs. .anvorst had sufered rom teart, and fears were entertamed of thequently accompany affections of the heart. But
relief from both ailuents was quickly
and Kidney Pills. In an interview, Mrs. Van-
Kinst says: vorst says:
"I had palpitation of the heart, and
and my Kidneys were out of order. 1 took
one box of Dodd's Kidney Pills, and Pound great relief. For a Kidney pill
Dodd's Kidney Pills cannot be beat. You
may publish what I say, as it may be the may publish what I say, as it may be the
means of benefiting others who suffer with means of benefiting otherr Disease."
Kidney Trouble or Heart Dreath.
Pure blood is the basis of all healts and you can't have pure blood unless
your Kidneys are in good-working order
Kid

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous.

ALFALFA MANURING AND sowed a feld to alfalla and got fair catch. Last fall I topped dressed it
using a manure spreader. Would you advise raking off what long straw and corn-
stalks that are on top this spring? Wuuld disking be all right next spring, or is is more for older meadows? J. P. P.
Ans.-If there is much long straw and cornstalks, it might be advisable to rake
off the rough of it so as to keep it out of the hay. We have never tried disking
a field under these conditions, and should a field under these conditions, and shoul
not consider it necessary. You might try STALLION ROARS-PILING MA NURE VS. LEAVING IN YARD -WIRE-FENCE BOUNTY.

1. There is a valuable Clydesdale stal-
ion in our vicinity which roars. Is it
Is advisable to breed a mare to that horse,
and will the offspring be affected with oars, too? 2. Which is more advisable, and let it rot there and plow under in spring, or to leave it in the barnyard and then have it plowed under?
2. We intend to malke a wise fence along a side-road. Some townships allow lon cents per rod to any person making
wire fence along the roads, because it fire fence along the roads, because
does away with snowbanks in winter. I this only a by-law, or is the Counch
bound to do so? FARMER'S SON. Ans.-1. It is not wise to breed to Ans. $\mathbf{- 1 .}$ The tendency to that trouble is considered hereditary.
3. It depends on conditions. Probably on teve field as made, and spread on the land. On rolling fields, intended for corn posit in small piles, or else stack in large, neat piles, and distribute early in spring with the spreader. While the manure will waste if kept fairly well together and in spring is so heavy as to render this plan uneconomical under most conditions, tion. Rotting means waste. 3. Wire-fence bounty is purely a local
affiair, brought into effect by township bylaw. ORCHARD QUESTIONS-PIG 1. What time in the spring is the right
time to plow an orchard? 2. How deep should it be plowed 3. Is it best to sow rape on it, and,
if so, what time should it be sowed, and
how much should be sown to the acre? how much shouibe to turn pigs on the
4. Is it all right and advanced should the
rape, and how far ade rape, We before the pigs are turned on?
rape behe
5 . What is the right time to prune an
orch. 6. Is it best to plow the rape under
and sow clover in the latter part of the summer ?
5. How many pigs will two acres of
How 7. How many pigs win pasturing pigs,
red clover pasture, and, in par or
is the clover enough for them, or should is the cever enowith it? $\begin{aligned} & \text { H. } \\ & \text { they get grain wind } \\ & \text { Ans.-1. As soon as the land is in good }\end{aligned}$ plowing condition, or as promptly there
atter as may be convenient. In your
locality, it should be done early in May. 2. About as shallowly as it can be
plowed, and a good job done. Run the
plow very lightly near the tress; it may phow very lightly near the trees; it may
go 3t or, possibly, 4 inches deep in th
center of the spaces. 3. Some cover crop should be sown the
last of June or early in July. Rape
 ver is better. Vitehes and alfalfa at
also excellent. The cover crop, of cours


FARNHAM FARM OXFORDS AND HAMPSHIRES We are offering at reasonable prices a limited number of yearling and two-shoar ewes by importad dirpe:
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BIGGER CROPS - BETTER GRAIN MORE MONEY

## IS THAT WHAT YOU WANT?

$\mathrm{L}^{\mathrm{L}}$KE lots of other farmers at this time of the year, you are thinking of buying either a Disc or a Hoe Drill. Read this advertisement this Cockshutt Dise Drill-get our Drill booklet and go into this matter thoroughly, because here is a machine that will help you get better crops.


THE particular advantage which the Cockshutt Disc Drill possesses, is that it sows the grain 6 inches
apart-not 7 inches as is the usual method. Close seeding gives the grain a better chance to germinate -to sap all the nourishment of the soilure better grain grows up cioser and and better grain. Close seeding resulting in a bigger yield and better graine
does not mean that you have to sow more seed - you simply
plant the same quantity of sed as you would with old

whole length of the machine. One of the great advantages of this I beam is that it never allows the machine
to sag in the centre. Axles are made of cold rolled shafting, always uniform inl size and set at the right shafting, always uniform in size and set at the right
angle to give the wheels proper pitch. The self-oiling angle tegive the disc bearings in good shape a whole season, The grain flows down the closed boot right into the depth. The space between the grain boots and disc gradually widens from bottom to top, $\underbrace{\text { the discs from revolving. No }}_{\text {preventing mud and trash stopping }}$ raus. O


## COCKSHUTT "em brantrord



Cockshutt Plow Co. Ltd., Gentlemen:-
I have very much pleasure in recommending the 15 . Single Disc Drill purchased from your agent, W. Mc Martin of Thormdale. After putting in seventy acres of spring
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and think it has to lee made yet. I cannot say too much
for it.

bomale



