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Are You Awake? To Opportunity
EVERY man, some time or other, has Opportunity's door opened to him ; but the great dififi-
ulty is knowing when it comes and being convinced to act.
the buckeye traction DITCHER offers you an opportunity of unusual merit. Dig ditches n your neighboriod net from doing it. There is no trouble keep ing the machine busy. Every farmer needs ditches. the old, expensive method of hand labor is a thing of the past. Our machine saves you from $25 \%$ to $50 \%$, and digs from too to $: 50$ rods a day. Farmers are insisting upon BUCKEYE ditches, because they are truer, of more perfect level and economical. Be the first in your territory to own he BUCKEYE TKACTION DITCHER. Our catalogue I will The Buckeye Traction Ditcher Co, FINDLAY, OHIO.

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Lands, convenient to rail ways, are now available for settlement in Northern Ontario. The soil is rich and produc For full information regarding home stead regulations and special coloniza.

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$98 \%$ of the PROFESSIONAL buttermakers use THE DE

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## When you buy seeds you are investirg not the price of the <br> seeds only, but the value of the land ic <br> a year and the season's work as well. That <br> EWING'S Reliable Seeds

That is the first and perhaps the most important step towards good crop. Ewing's Seeds are clean, vigorous, healthy rue to type, and sure to grow if they get any kind of a chance. For over forty years they have been making Canadian farms and gardens famous. Write for our handsome Illustrated Catalogue, and if your dealer hasn't Ewing's Seeds buy from us direct. WM. EWING \& CO., Seed megill st., montreal.


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Cheaperthan wood. Nothing Cheaper than wood. Nothing
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mental Fences, one of which are made from heavy No, steel spring Fences are dipped in green or white enamel. These fences have a special distinc-
tive feature, which totally removes tive feature, which totally removes the chance of sagging or bagking. This ha
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you secure ase with the charming tome of a pipe ergan, and at a prict
that will ploase you. Buy a Bell and get the beat made. We are
the only nalkers of the patent Pipe
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WHSON'S $\begin{gathered}\text { GOLD } \\ \text { MEDAL } \\ \text { SCALIS }\end{gathered}$



Gows Produce More in

## BT STALLS

our cows will produce more, because BT Stalls glve them perfect freedom and comfort and make posssble greater cleanliness.
BT Stalls protect your cows against disease, worry and accident. Our atalogue explains how this equipment lessens abortion and does away with the rincipal causes of big knees, ruined udders and many other injuries. Fur
xplains how our individual mangers prevent overfeeding and
If you are building or remodelling your stable, write at once for the BT CataIf you are building or remodelling your stable, write at once for the BT Cata-
gue on Barn Equipment. No other investment will pay as big dividends as BT
Nour barn is your profit-centre-HAVE IT RIGHT

NSIDE.
Remember, there are five exclusive features on BT Stalls, in which they excel
11 others. For instance, RT Stalls are the only ones by which you can line up all
No droppings will fall on the cattleRemember, there are, five exclusive are the only ones by which you can line up all
II others. For instance, BT Stalls are the guter. No droppings will fall on the cattle-
ows, whether long or short, on the git ows, whether long or short, on the gutter. NO droppings wet us tell you about our
tand. Your cows will remain clean if tied in BT Stalls. Let ther exclusive features: Our Sure-Stop Post-our Self-Cleanin
wivel Stanchion-our Cross Chain-and our Calf and Bull Pens.




## $\underset{\sim}{c}$

 cement floors should be laid
for stables, the proper measurement and shape for the
cattle-stand, the manger cattle-stand, the manger, the
gutter, etc.
If your stable is equipped


We i'o build BT Unloaders for Steel, ood or Rod Track, and the BT Litter Carrier.


Barn Work is Reduced by

## BT STALLS

They will about cut in two the stable work.
BHOA USEI :
1st. The cows can be tied or untied in quarter the time with BT Stanchions than when chains are used

2nd. When BT Alignment Stanchions are used all the manure is confined to the gutter. None falls on the cattle-stand. The cows remain clean, and much time is
saved, which

# The Economy of Paint on the Farm 



I am rather a crank about the care of farm buildings and implements - because I've seen so much money thrown away through the negiect of proper care of the things which the farmer uses in his work. I figure that a man who gives proper care to his farm implements and buildings is making money for himself because he is really saving it ; especially so as the price of lumber is rising so fast. One of the good ways to take care of the things which you use in your everyday work on the farm is to have a pail of paint handy. Good paint is the best preservative that is known, not only on wooden surfaces, but for steel and iron as well. It means longer life to both. It prevents the water from getting into the lum ber with the ensuing result of decay, and it also keeps the rust from eating away the steel and iron parts of your implements and machinery. A little paint and varnish keeps everything ship-shape and looking fine. Write for our free booklet, "Paints and Varnishes for the Farm," to 893 Centre St. Montreal, Que. It contains some valuable facts about painting.

The Little Paint Man.

## *Sherwi_-Wilams: PAINTS \& VARNISHES for USE on the FARM



Your House
If yous want to paint your house, use It is made of pure white lead and pure zinc and pure linseed oil, necessary coloring pigments and driers. All of these are combined in correct proportion with the aid of powerful machinery of our own special design. SWP will cover more surrace, look better and hand-mixed lead cheap mixed paint or hand-mill Imperial measure.

Your Barn
A well-painted barn will be good at the end of 50 years, an unpainted one will go to pieces in 20 or 25 years. Paint your barns with S-W Commonweald. Works freely under the brush and has Works freely under the brush and full Ireat covering capacity is therefore more economical than many short measure, poor quality barn paints sold at a lower price.

Your Wagon
Before your wagons and the wooden parts of your implements show signs of crack ing or checking, use $S-W$ Wagon and Implement Paint, a durable oil gloss paint, made especially to resist nard usage. It protects the wooden parts against dampness and the iron and steel parts from rust Brushes out evenly, covers well and is permanent in color. Comes in si shades

## Your Windmill

If you want a protective paint for your windmill and metal sidings and roofing, use S-W Metalastic No. 2. It is made with a combination with pure linseed oil, and has greater durability than many of the so-called graphite paints. It dries rapidly and gives a hard, impervious paint film that protects the surface very effectively. It is fine for use on all metal surfaces exposed to the weather
Your Fence
Keep your fences in good condition by protecting the wood with S-W Creosote fences, outhouses, etc., for protecting. all kinds of structures made of rough lumber. It is good quality, spreads easily under the brush and wears well. It contains a sufficient amount of creosote to act as a wood preservative and also has a sanitary effect when used on pourltry houses or any place where livestock is kept.
Your Buggy
If you want to make your old buggy look If you want to make your old buggy loish gloss paint made to withstand wear and tear and outside exposure. It colors and varnishes at one operation and any surface finished with it can be washed without in juring the gloss or the durability of the paint. S-W Buggy Paint is a high-quality product and should not be confused with many of the cheap grades on the market
today. Comes in nine handsome colors.


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MONTREAL, TORONTO. WINNIPEG. VANOOUVER


No. 967
Vol. XLVI

## EDITORIAL.

beigh ho, the wind and the rain A Douninion conference of fruit-growers, and It isn't a question of whether or not we can afford to to it. Better neglect the oat field than the orchard-if it is worth keeping at all.

Since "The Farmer's Advocate " took up land in Westminster Township, things are on the move An 95 -acre farm in Halton, $3 \frac{1}{2}$ miles from Oak-
ville, sold the other day for $\$ 25,000$, for dairying and fruit-growing
When it takes five and six words, and thirty five letters, to designate a mangel, someone should call a hatt on the The field-root catalogue in length of names.

Every lover of nature and geod farming should scoond the appeal of w. E. Saunders for protection and encouragement to our native birds. With sects, and they do not ask for 35 -per-cent. probush to live in. $\qquad$
o the census
of April, 19 972,266 , exclusive of Alaska and other non-concontiguols territories. The population of the United States and all its possessions is about a hundred and one millions. The population per square mile of the United States, excluding the 25.6 in 1900 , and 21.2 in 1890.

There were probably more silos erected in Canada in 1910 than in any other one year, says Dairy Commissioner J. A. Ruddick, who is in a good position to judge. Steadily the logic of economy dislodges the prejudice expressed in such kraut corn." Both beef-makers and dairymen are coming to recognize that, while they may make money
with it.

Three hundred and seventy-two questions were answered through "'The Farmer's Advocate and Home Murazine " during March, as many as
replies being published in a single issue. In addition, quite a number were unavoidably held over for later publication, while several questions were answered by mail (see rule 9 in the standing announcement, printed on the second page of read ing matter each issue). In addition, quite a number in inquirers were referred to the answer already wisen to questions similar to their own The dewions and Answers Department, while valuabl. is becoming a severe tax upon both space thit time. We cheerfully attend to all in quiriceneral interest, especially those touch ing numints, but would request our readers to unnect... questions about points that have al


LONDON, ONTARIO, APRIL 6, 191 An old farmer, now deceased, who never made nuch fuss about his work, but yet seemed to hav the knack of getting it done in season, and who ing from one thing to another. He remarked on ing from解 the words, as fiven in his North-of-Encland vernacular, were when eva ber yound When evernol hors, yor here would be less complaint on the part on pork-packers, and more money in acted on the same principle.

Chasing novelties among varieties of farm crops is poor business. Stick to the well-proven ones until experiment stations find better. Watch carefully the published results, note the experienca of fellow farmers, and conine your experimentis piretty largely to the cesting or stand to gain known sorts. We believe farmers stancod vari much more by impring time dubious quest aties than by little experimenting by each farmer is an excellent thing, but it may be done to hest advantage in the light of the knowledge gleaned by men whose business it is to experiment for the community.

Commenting upon a recent editorial paragraph on this page, regarding the incongruity of an irresponsible Second Chamber, the Windsor Record Observes :
"' 'The Farmer's Advocate' is right. The people who discuss senate reform are accustomed
to reason in a circle. There can be little 'reform ' short of extinction. Two elective, and, therefore, co-ordinate, houses are an absurdity, paradox, and a needless multiplication of chinery of legislation. and shorter par whe in theory will be in the hands of the people, country. When at least, are that the people are watching legisfators inclligent iudgment, they are not like ly to be either 'hasty' or venal."
" The best laid plans o' mice and men gang ait aglee," sings Burns. There is an error in the ctatement, however. The poor little mousic may not really have made plans; she had probably acted on instinct. But man, though he lacks instinct, is divinely gifted with the power of thought and imagination. The dog knows some thing of the difference between himsel and with master. He looks up into his master wishfur appealink eyes, eyes which which wo for what he feels whose powers he realizes are shiprul or mind with ease reaches ock ond with scarcely a moment's interval will leap forward and speculate what is to be after millenniums shall have passed. How despicable for a being so endowed to let his powers atrophy for lack of use. The practical application of the above should be evident to every farmer. The crops with which his fields shall wave the corning summer depend not so much on thents as on the plans he forms. The man who thinks is the man who does. If your plans for the season are not pe

Ontario Cpop Improvement. From his position as Experimentalist at the Ontario Agricultural College, and director of tho ark Prof. Chas. A. Zavitz enjoys favorable opportunities of judging as to what progress is being made in the production of field crops, and the methods employed. Noting the fact that the prosuerity of the people of che cly, as as country, depends largely the latter, he observes that the agre than at the eects of Ontario were ne distinct awakening in present time. the business of the professional men, many of gaged in , occupation or as a whom are notes a tendency to smaller side issue. He intensive system. He sees en far vears, from 1898 to 1907, inclusive, pasture and hay lands showed an increase, there has been gradual decrease in the grass lands of the ince during the past two or three years. und is too valuable for so much or to be opin other grass. More can be made or by the incrops. During the first per Bureau of Industry crease was, accos but during the past returns, some 1, This two years the is happiy of corn, and five classes of grain crops. And then, what is still more encouraging, is the fact that the yields per acre of leading crops are in creasing from year to year. Three most exten sively grown cereals have increased, on an avers, age, about one-firth for the par better methods of farming playing out, but imcarieties. The soif is and we are evidently at the possibilities practically unlimited.

Farm Bookkeeping, Again. prompted by the interest tals recent discussion of farm bookkeeple, who the subject to advise every farmer-read more or less already keeping ac try it this year. Our adm ystomatic in olering and reports thereon. The response has left no room to doubt that the systematic aping of farm accounts and records is practicabe profitable, and interesting
The factors involved in carrying on the busiass farming may be as numerous and diverse as those of a large factory. Besides the cash, wages, personal and expense accounts, in separable from almost every business, the farmer may keep accounts with every held, wh and kind of crop, with every tree in his it was to with every cow in his dairy that corre accounts of these king spondents referred wing out that factors supposed to the tifferent, were returning good dividends. The farmer who feels entirely ignort with a combined cash and daybook, and from time to time make an inventory of his assets and liabilities. If he has boys, let them assist him in making, two or three times a year, or at least
annually, a carefully-itemized statement of his
the Farmer's Advocate and Home Magazine.

FHE LEADING IN THE DOMINION
prbusued weekly by

THE WILLIAM WELD COMPANY (Limited) John weld, mavager
Agents for "The Farmer's Advocate and Home Journal," THE FARMER'S
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 not to any indiviaual connected wocATE Address-THE FARMER'S ADVOCATE, or
THE WIILIAM WEI, COMPANY (IIMITED),
effects; nothing else can be better practice fo them. To keep a single-entry ledger, with
small number of accounts, requires hardly any knowledge of the art of bookkeeping. Self-crit ical practice in this, as well called by that name, is the taking and keeping the record of an annual, or shorter period, inventory. Debts, if any, the difference shows what the farmer is worth at the time. The next simi-larly-discovered difference will show, hy comparison, his gain or loss for the year, or whatever the
period that has elapsed since the preceding inventory was taken. For example


Sheep, cows, poultry, potatoes, alfalfa, barler,
stc. Under the appropriate heading he will enter etc. Under the appropriate heading he will enter
on the left-hand side every item of cost, investment, labor, etc., incurred on behalf of such fac-
tor and on the richt-hand or credit side every item of revenue from it, whether sold or used on the place. It need hardly be added that the dif-
ference between the debit and credit sides shows the loss or gain, for example
 diary is almost as reasons for keeping
there may be good remer
separate books, the farmer who wishes + iew books as possible to handle ma cash-hook, diary and daybook in one. in stationery always carry in stock book are ruled on the right-hand side of the paci
double money colurnns. Such a book, ing about 125 pages, 9 by 13 inches, can the pur chased for about 50 cents, or one of atrout 100 pages, in stronger binding, for $\$ 1.25$. In
book, all cash received may be entered in of
the columns, and all cash paid out in the . .ther. For example, see large table below
The cash may be carried forward from pace to page until the end of the month, and the totuls, or
the difierence hetween them, then transferred to the the difference hetween them, then cransierred he the anced at the foot of each page. The excess on the debit side, in either case, should agree with
the cash on hand. The greater number of the $\$ 214+0$ the cash on hand. The greater number of the
$\qquad$

| Date <br> Year | Entries | $\begin{gathered} \text { Ledger } \\ \text { pager } \end{gathered}$ | $\begin{gathered} \text { Cash } \\ \text { Cececivedredr } \end{gathered}$ | Whp |
| :---: | :---: | :---: | :---: | :---: |



A time record is indispensable to proper ledgerkeeping. On the page or pages devoted to the factors, such as cows, that take time daily. The their anp hours may be transferred month
cash. By entering these in the manner just dehe ledger will be saved. -The inexperienced bookkeeper, at the beginning, will do well to minimize the number of accounts
O the ledger. On page 184 of " The Farmer's Advocate ${ }^{\text {" }}$ (February 2nd issue), J. H. Coatsworth shows how he posts a set of transactions into only nine ledger accounts, namely: Capital
or self, real estate, implements, farm products, William Jrown, cash, expense, bills payable, and accounts, a farmer can more easily learn the hethod, but when he feels he has skill enough to landle the ledger intelligently, he will find it adantaceotis to increase the number. For exatmple, farm products, account may he diry corn, rrain, horses, honey, and "Sundry Farm Products." The following is given as an example of one of
such accolints, supposed to be posted from the



The Side that Can't lbe Seen. Editor "The Farmer's Advocate injustice to "Farm-
I feel it would be a great injor er's Son" and many other young men of Canada to let be something out of place or radically wrong ior any boy, especially an ouly son, to feel a young man, I figured out this same problem, and came to just the $s$
er's Son" has come to.
Now, I am writing this because I have been over the same road that "Farmer's Son" is the County of Oxford, Ontario; but, not being satisfied with my prospects, I left the farm early in life, at nineteen years of age, and something city.
ahead for a rainy day, but, after I paid my board and other expenses, I had very little left. Not boing satistied with work in the city, I took up
railroading, thinking I was then on the right road
to success. Well, after working from the foot of
the ladder up to conductor, I still was very little ahead financially of what I possessed when I commenced, and I have on several occasions
drawn one hundred dollars and over for a month; drawn anilroad man's money is very easily spent.
but a rail "Farmer's son" may say that was my
Now. "M lookout. Not arwas tobacco, but I found that, my life ion whiskey or by the time I equipped myself with the different articles required of me by the company, and clothed myself so as to be up to the standard ex-
pected, and paid my board at both ends of the dected,
division over which I was running, I had very
liftle left in comparison to what I had earned. Hittle leit in comparison to what on the railroad a If you hear of one making one hundred dollars, you must understand he has worked very long hours, because a man can't make ten to twelve hours per day, as on the farm, but sometimes twenty and thirty,
and even forty hours, on duty continually. I have seen times when it would be the next thing to impossible to keep my eyes open on duty; I
have felt more dead than alive, and all for trying to make the almighty dollar. You may say it
is not necessary to work like that. Well, if you want to hold your job, you must not refuse to go
at the cali of duty. Remember, even when you book off, and are enjoying yourself at your home, sou are still under the hand of the company, and
are their servant. Not one hour of the twentyfour can you call your own. Go to a railroad
man who has piven the railroad company the best man who has given the railroad company the best
of his life, and ask him whether he would advise you to go railroading. In nine cases out of
ten he wrould warn you faithfully to steer clear of railroading. He would tell
dog's life, at best.
Nom, seeing I was still making progress very Now, seeing I was still making progress very
slowly alome money lines. I began to get home-
sick for the sick for the good otter, I decided to quit the railroad and go to farming. I bought 200 acres of
land near a large town, and had to borrow the land near a large town, and had to it, but I money to make my first payment on iomething
was beginning to feel that I must do somer
desperate. or I would be a servant for others all desperate, or I would be a servant for others all
nay life. I started in the retail milk trade. I
had enouch money of my own to buy four cows, had enough money of my own to buy four cows
hut for my rig and horses I had to go on credit. But, hy the help of a good wife and a kind
Providence, we pulled through, paid for our out fit, paid back the money we had borrowed, an increased our husiness, until now we have wenty
five cows, besides our horses and other stock,
and implements. We are meeting our payments on our farm, which amount to over four hundre
the short space of four years, and we attribute
our success to being diligent in business. We have worked hard, but we see the fruit of our labors, and are working for a better firm than a
railroad company, and $I$ am working shorter I wouid say, in conclusion, it is not all gold
that glitters. Far-away fields look green. But for me, give me the farm. And I am proving every day what Paul meant when he said, "God liness with contentinent is great gain." Hardly my old work-mates that I did a good act when I quite raitroating. Hoping these few lines of my experience will reveal to "Farmer's Son" and
others whon are thinking of leaving the land the side of minroad life that can't be seen, but mus
be evtmimared

> Thw a revival of interest in the question
of par test at cheese factories, and many
will while the system this year for the first time.
while will resume this method of declaring
divid,

Railroading and Farming as
They Are.
After reading and considering ... Farmer's
After reading and consldering Farm Farmer's
Son's letter, The Boy on the Farm vail
road Life," 1 must say his opinion is very biased;
he is under a delusion. "Far-away hills look the summing pith of his dissatisfaction lies in paper, its editorials, its experiments, and its correspondents opinions, also all other literature per-
taining to farm matters, are written for cheering taining to farm matters, are written for cheering
the toilers who toil without hope.
Now, allow me to say that what has caused
your correspondent to err is because he is too well your correspondent to err is because he is too well
done for. If any young man can reach the age ot 25 years, and not make his personality felt on a farm oi 140 acres of good Ontario land to à greater extent than $\$ 200$ a year, then, possibly he had better go railroading, as there must be some-
thing radically wrong with his calibre. Hos your corresp
from the standpoint of the average, or has he formed his opinions from the hilltop, as it were, from the despatcher's pivot chair, or some road
boss's private car, or some vice-president's carboss's private car, or some vice-president's car
peted ofice? Where does the average railroad man end, with all his salary, whether he be an engineer in a pumping station, or an engineer on with but a few exceptions-those who fill the afore mentioned points of vantage-dependent upon their pensions. It has been so in the past, and will If railroading is no more hazardous an occupa If railroading is no more hazardous an occupa
tion than farming, then why do insurance com ion than farming, then why do insurance com
panies place them as the most hazardous of al

the pros-
producing
than if
spent tho
and early
she has
she winter early spring
months in complete
or comparative idleness. As $t h e$ period of gestation special care should
be taken. S he should be fed liber-
ally on laxative easily-digested food large percentage of nutritive material, such as good hay, whole oats, a little inseed meal, and a
few raw roots. Of
course if the has reached sufliclent growth, it
will, with the ad-
dition of a small grain ration, supply
all wants, unless she is worked, in
which case grain should be given in proportion
amount performed. It should she has not only herself to nourish,
but a foctus nearing maturity, hence she requires more food nant mare living.
Now, as to the savings side of this question. I Now, as to the savings of the largest railroad lines in Ontario, and this is the first time I have heard of railroad people beimstrary, you may place for their thrift. On the contrary, you may place
them as the least saving of all classes in our land. Possibly they have rare opportunities; but if they have, they do not, as a class, use them. In the first place, a man embarking on a railroad career
carries, to begin with, whether he wills or no, a carries, to bugin with, whet accident policy, usually five thousand dollars, which his employers pay for him and withhold it out of his wages. Then, too, there is his union and his union fees, be kept up for $\$ 150$ a year. After we consider the styie of life partner a
cailroad man is likely to take, we cannot but marvel whire Farmer's Son sees the remotest possivel where Farmer's son sees the remotest possi, Easy Street. Why, the the riyor of a farm girls who are opposed to the rigor oilroad man. kitchen-aspire for a banker or a rallroad man. are made in heaven, but observation has taugh The to believe more are made in parlors; and,
after becoming firmly affixed to one of these allur-
or his vaunted savinus?
Rather let him read Proi. /avit? experimental reports ior the past few years. The Department
ind will be pieased to supply him with these nissing
links to complete agriculture; and start reading "The Farmer's Advocate," not as solace, but as an advocate, and his day-dreams of railroad life,
and then the president's chair, will all disappear as a thiv vapor. Then let him look around him nd see the sturdy farmers who were once hired men, and he will be surprised how steep an ascent
those neighbors of his have had to climb, and possibly he will appreciate his opportunity before it is too late. Young man, begin this spring
with an ideal. which is one essential to success. Tet it be to double the output of that 140 acres of good Ontario land. It is possible if you are now only worth $\$ 200$ a year. Better varieties tention to detail, and an earnest study of your tention to detail, and an earnest sthin end. Have a pride in your home; it is pardonable. Sucessful farmers do not pine because their parents do not die; they lave not time. Tear the beam
out of your own eye, and make yourself worth
$\qquad$

The Mare and Her Foal. As the foaling season is approaching, a few The mare about to foal should be in fair conThe mare about to foal should be in fair con-
dition, and, if she has been regularly exercised or used for light work during the winter, the pros-

## =

## HORSES.

## $=$

 .

THE FARMER'S ADVOCATE.
is usually, also, an enlargement of the lips of
the vulva, and often a parting of the same, with the vilva, and often a parturg of the same, with
a discharbe of a smail quant ity of a visid sub-
 in some cases hat in some cases a mare foals
marked, and tho
without showing any well-marked symptoms inwithout showing any well-marked symptoms in
dicating that parturition is about to take place dicating that parturition is about to to tind that
and in such cases we are surpised to then or else birth has taken place in a normal manner, or else
parturition is dificult, and may have reached partupition is difficult, and may have reached
that stage in which the saving of the foal is out that, stage in which the saving life may also be
ot the guestion, and the dams
in imminent danger. While we know that the in imminent danger. While we know hat , we
 difiterent
different periods. Mares have been known to pro duce foals at apparently full term in a little ove
ten months, while in others the period of gesta ten months, while in others the period of gestar
tion reaches over twelve months. Under these tion reaches over wive ve mon that we cannot tel
circumstances, it will be seen the circumstances, of gestation when parturition will
by the lengtt
Liake place; and, when the ordinary signs of ap take place, and, when the ordinary signs of ap
proaching parturition are absent, she may foa proaching parturthon imed iate symptoms are,
Tnexpectedly
The course, the appearance of labor pains.
are exhibited by an uneasiness, and especially primi-para (a mare producing her frirt ioal), the
nervous or excited state; she waliks around stall, stamps, lies down, and usually strains. This may be followed by a perck the attacks becom-
succeeded by another attack, the ing more prolonged and severe, and the periods of ease shorter, until the pains become almost are quite continuous.
usually seeks solitude, by wandering away from
 conce of puin, while in others, even when every
ance thing is normal, the pains continue for hours Again, tion does not take place for a few days, or longer Some of the reasons why we consider 1 She may watch a mare about to foal are delivery is im-
lie down so close to the wall that possible. In such cases the eattendant can either
shitt her position or cause her to rise. (2) Birth phift her position or cause her to rise. (2) Birth
(2) may be very easy, and the cetur and meater, in
may be expelled withoutrupture of the later
Instinct is which case the foal will sulfocate. Instinct is supposed to cause the mare co rupture the membranes with her teeth, but we find that mare lies
cases, even following an easy birth, the mater for a few minutes after the act, and in the meantime the foal perishes. The attendant, in cases of this kird, cut them with a knife, and liberate the
 the umbilical cord, and interfere materially with its moverents. Instinct here again is supposed
to cause the mare to sever the cord with her (eeth, but in many cases it falls to act. strong fitendant shat
string that has been soaked in a five-per-cent. solution of carbolic acid, atbout an ach scraping mo
ioal's abdomen, and cut it with a tion of the knife about an inch eetk to rise and nurse. and. if neplected for several hours, may perish. The attendant, in such cases, can assist lto the mare and give to the foal with a spoon
from the or my be cross with the foal, and, if
maye
alone. may kill it. The attendant, of course, such cases, must ind to for assistance. (6) Ther move be molpresentation of the fretus or other
mauses which prevent parturition. If the pains mauses which prevent parturition. If the pains
cause
have been frequent and severe and still no prog have been frequent and severe, and still no progt
ress is being made towards delivery, the attendant ress is beeng made e, if possible, ascertain the ob-
should examine, and,
state tel has sufficient knowledge stacle tol to remove such obstacles, he must pro
and skill to
ceed to do so promptly; but if the complication ceed to do so promptyy
be beyond his skill, he should at once send for
 possible, of the fotus. There are other reasons.
hut those mentioned are sulficient. Many claim
 but all breeders know that dificiculy in or ath
 required to watch. Inder normal conditions,
attention is required niter Iirth orther thin ren


an

Natur
folud on thoroulhbred ner horses, feet an mountain ponies, mules, and asses, and must not be con-
fused with and ased with contracted feet. Nor must the "odd" By contracted feet, we mean such as have narrowed between the hels from what was their oripinht foct which might be called contracted if

in men gettin the "slipping Iown of very old and upright feet the coronary band will also be found wasted. Fo
shape, quality, hardness, and good-waring prop shape, quality, hardness, and good-wear eng prop
erties, the Hackney can challenge all breeds, but he is not immune to foot troubles. The certail horseman should get into his exinu a closetion, so that others of imperfect shape will th one enghe his attention, and cause him to ex-
amine them more closelv if a purchase is intended.

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

 4ot, accurdine as it is a thich .r. thin shoe the
nemene it takes, the time


loot. In the unshod colt, all these parts ta
share in supporting the weight of the animal. share in supporting the weight of the animal. Al are practically level, the frog flattened out, and
almost as hard as any part of the foot, although resting on an elastic cushion. Shoeing impuses all the weight on the crust, or nearly alt. The hears upos the outer margin of the sole, but the crust takes the bearing entirely with many linds of shoes, and all (with the exception of the one
mentioned above) lift the bars or cover them from cround pressure. Unless the frog is a very full cound it does not touch the ground at all. So
 utmost, and let the shoes wear very thin, a mod-
erate bearing on the frog may be got, and a harder, sounder frog, free of thrush, may he ex-
nected. If, on the other hand, the oldd-ashinoned
farrier cuts out the sole, and lowers the bars and farrier cuts out. the sole, and lowers the bars and
trims away the frog, everything tends to contrac-
tion of the foot. The frog that is not used tion of the universal law of atrophy. At first,
obeys the
probably the secretion of soft, imperfect horn deprobably the secretion omporge is known as thrush.
composes, the discharge
The next mistake is to use some drying remedy which "cures" thrush by shrivelling up the sensi-
tive frog underneath-hurries up the process of wasting, in fact. The same man who trims away frogs has most
heels or making a " " V ", between the crust at
the heel and the heel of the frog. Then, with the the heel and the foot wasted a aray, what should hapheels? "Wiring in," it is called.
Then, you have the foot shaped as in Fig. 2 It is exactly what would be expected hy anyone acquainted with the anatomy and physiology of
the foot. Standing in the stable upon rotted or wet moss-litter or other bedding contributes to
thrush and wasting, but absence of natural presthrush and wasting, but absence of natural pres-
sure through the shoe and by the maker of it,
Standing in the causes contraction of the foot. $\begin{aligned} & \text { Standing in the } \\ & \text { stable, though clean, helps to contraction for }\end{aligned}$ stable, though clean, helps to contraction for
want of use of the foot generally. Navicular disease, brought on by concussion in hunting or upease, broughe
on hard roads, has been recognized as a cause of
he contraction, as the subiect avicular disease frd contraction. On the other hand, navicular disease may be
caused by contraction, as the joint is gradually leprived of necessary room and functional exercise. To the latter class belong those cases of
cure of navicular lameness when blistered and turned out without shoes. There never was ulcomfort in the contracted foot, and when a blister has made a bigger ring grow down, by pressure bars, and sole have been restored by pressure
exercised in the best possible way, by standing on grass, the navicular joint recovers. Habitual dryness of the hoof is a cause of eontraction. A wild horse stands in the water from which he drinks.
His feet are, therefore, frequently wet, although His feet are, therefore,
he may live in a very dry country. Alternate
wetting and drying is the best treatment of the ivetting and drying is the irom being absorbed, or, if absorbed, from being
evaporatcd again. Water in the horn tubes of
and evaporatcd again. Water in the horn tough, as well as elastic. A dried hoof, such as can be when it in museurns, will be so brittle as
falls to the ground. The same hoof put in soak
will regaiu its density, and be unbreakable as one newly removed from a dead horse.
EFFECT OF ACTION. Action has somese that goes on his toes, as we
of the foot. A hors
say, allows the heels to fall in for want of use. All navicular subjects go on their toes. All the subjects of fever a wired-in heel will never be
their heeis, and a wo
found in a. horse that puts his heel to the ground slightly in advance of his toe. The horse with
contracted foot goes best up hill, goes short on the levei, and down hill with much difficulty.
The fevered foot, with its hypertrophied heel, alThe fevered foot, with its hypertrophild hith the
lows the subject of it to go down hill with tex
greatest cornfort. Disuse causes wasting. Excesgreatest cornfort. Disuse causes wasting.
sive use causes abnormal growth, hence our com-
parisons between the navicular subject, with conparisons between the navicular subject, with contracted heels, and the foundered or fevered sub-
ject, with enlarged heels. If the reader had any pect, with enlarged heels. paring harses affected with these two changes of
conformation which result in altered action-or conformation which result in altered action-or
altered action, we might say, results in changes of structure. Horses with turned-out toes do not of structure an equal bearine, hence the unshapely foot,
take
contractell on one side. Since horses must be contractel on one side. Since horses must
shod, we should take every opportunity of remov-
one ing the stoes. and during holidays in the stable every day, in order to afford equable pressure to
we plantar surface of the foot. If clips must be worn to prevent rested horses from breaking the into the crust to the level of the sole, as in the
Charlier or Sonth's "rational" shoe.-l"Vet."

Breeds of Horses Please explain the difference between a Stand-
ard-bred horse, a Thoroughbred horse, and a pure-ard-bred
bred horse; and to which class does each belong,
and how is each crossed to get the different and how
breeds? breeds? A Standard-bred horse is a horse eligible Sor registration under the similar record for such horses in Canada. It may be recorded in either
the trotting or pacing division of the register, the troting or
according to the registration of cestors.
A Thoroughbred horse is a horse eligible to registration in one of the Enclish running horses. A pure-bred horse, in the sense in which the term is common a recognized studbook for any for registration breet - Thoroughbred, Standard-bred, Hack-
given
bly given, Clydesdale, Percheron, etc. No horse is
ney to conform to any of these definitions by
made to crossing. A great variety of types are produced
hy mingling the blood of the different breeds, almost as much depending upon the individuals with
mosich one works as upon the lines of breeding he follows. In broad generalities, we might merely to get hunters and saddle horses; Standard-bred horses. and Hackney or Coach stallions to produce
high-stepping carriage horses.

To a Work Horse.
Thou faithful servant of thy master, man! Compact of brawn and sinew, strong of
Art thou, O toiler, and thy whole lifie's span
Ts Is but ono round of servitude for him
Who doth too oft, alas, hold thee as naught But beast of burden; how thy steaming flanks And straining tenconse is repaid with thanks, Our Shakespeare said, and thou, O patient beast,
Requited by mere shelter and thy food, Requited by mere shelter and thy food,
Dost well deserve thy master's thanks, at leastDost wer desere his love as well as gratitude ;
Aye, more, ho
To chatel thou, merely to serve man's ne Bo chattel hou, merest to serve man's ne

No fiery Bucephalus art thou;
Thy rugged form, thy slow and plodding gait Adapt thee to the humble dray and plow,
But in the ease thou bearest mighty freight There is a power akin to majesty; Thy quivering nostris anse to sympathy,
Denote thy quick response
The word of loving praise that thou dost prize Ofttimes more than thy provender perchance. Ah, patient beast, as daily thou dost go
Upon the weary ing rounds that circumstance Hon the wearys no creature here below
Hath set for thee, no
Should in man's true esteem hold higher place Than thou, O noblest server of our race!

## LIVE STOCK.

Manitoba Winter Fair.
nadian iarmers are breeding, as well as buying, Perch rons made a very strong showing, this breed hasing increased more largely in numbers
the past year tha: any other draft breed that
made a stiowing. and their popularity is growing mapidly it the West. Belgians and Shires were shown in less numbers. but incluad some than in the previous year. The pure-bred two-year-old Mchrecor, who the grand championship. esentative set seen at a Manitoba Winter Fair. Western farmers are becoming more interested in
sheep. sheep. A. Alect of Manitoba Sheep and swind Breeders Associations, was the principal exhibito
of Leicesters, Jas. 31 . Douglas \& Sons, Tantal lon, Sask.. being the next strongest or grade ewe
championship for the best pure-bred championship for the best pure-bred or grade ewe
or wether was won by an entry by J. D. Mcor wether was won by an encry or was the winner of the first alward for the best three ewe
or wethers of 1910, pure-bred or grade. Fntries in swine were larger than at any pre-
vious Manitoba Winter Fair. The grand champion hog was a Yorkshire, shown by A. B. Potter
Langhanh, Sask., who made, as usual, a strong Langrank
showing.

Sheep Breeding and Rearing on a Scottish Farm.
No hard-and-fast system is followed in sheep-
rearing in this county (Kirkcudbright), but I will rearing in this county (Kirkcudbright), but I wil
give you an account of the particulars of managegivent. Which I have come to consider the most profitable under the circumstances in which I am placed.
On this farm (Milton) we keep only a " flying stock " of sheep-that is to say, the steep (which All together, we run
sometimes two years only.
a flock of 140 . Five-year-old ewes, pure-bred Chev a flock of 140 . Five-year-old ewes, pure-bred Chev-
iots, which are regularly drawn from the hill iots, which are regularly arawn
farms, are sold off annually at our local auctions in the months of September and October. Before being sold. these are examined, and guaranteed
correct of their mouths and udders. We purchase correct of their mouths and udders. We purchase
90 to 100 of these each year to renew our stock, at prices usually ranging from 24s. to 28s. (nearly at
$\$ 6$ to $\$ 7$ ), from a stock that is known to be
a sound and good livers. For my part, prefer
North Country ewes, from Sutherlandshire, to the Lockerbie or South Country type of Cheviot, as
they are much bigger, roomier, and, as a rule, more prolific, besides being better milkers. On the arrival of the exes at the fie on the older grass fields, as the seeds and younger grass will already have been stocked with lambs, or been reserved for them. These old pastures have usually been well eaten down if not,
cattle in the earlier part of the season. If not cattle in the earass has a tendency to bring on a form of foot-rot, by accumulating between the hoofs of the ewes, which may be already suffering, from thich is brought on by their long walk on har
whis foot ail roads to and from the market. This foot ail
ment has to be attended to by dressing with

We aim at having the ewe in good conction at
ambing time. and another object is to get as big a crop of lambs as possible. To insure a good in having the ewes in an improving condition when the rams are with them. With this end in wew
shortly beiore the ram is put out, we put the ewes on clean and fresh pasture, at the same time givscarce, they also get one-half a pound to three quarters of a pound of good a por The tup (rams) we use are pure-bred Border The tup, (rams) we use are pure-bred
Leicesters, costing from $£ 8$ to $£ 10(\$ 40$ to $\$ 50$ ) each. Of course, we could get them at half these prices, or less, to get lambs 5 shillings each better than a bad one gettin! an equal chance. Our rams are selected with good strong heads (not coarse, or well-spruns ribs, as lengthy in body as possibl and they must be able to walk well, on fine-qual ity bones. When purchasing a sheep, we do no They are the fore and extra one breeder is kept a year longer. Three tups are sufficient for 140 ewes, which are divided among them and run in separate fields. The rams are "ketled " on the breast, so that each ewe is
ikeeled as tupped, different colors being used for each ram, so that the produce may be known. At the end of the first week the ewes are all brought in, and those marked are given a distinctive red end of the second, third and fourth weeks, but fiving a different color each time. This is for the purpose of drawing the first lambing ewes out attention at that critical period. This also prevents overstocking of the lambing field. The rams are put to the ewes about 1 st November, and taken out at ist January. on the grass all winter, and, if plentiful, it is profitable and safe to give from 10 to 15 pounds per head daily. As the ewes get heavier in lamb, say about 15th and work up to of a pound as they approach lamhing. This liberal treatment is continued right on till the lambs are a fortnight old, when they do well enough on the fresh young pasture we happen to have a cover of snow, which, by the way, seldom lies longer than five or six days at a time, we give the ewes a handrul of hay, if they will eat it. As lambing time approaches, say lamb first are brought into the lambing field, a wellesheltered enclosure of about fifteen acres near ene turn may cet special attention. When the lambs are from 24 to 36 hours old, they may be walked quietly the young pasture ferds reserved for the best and most sheltered field. In ordinary seasons they usually require comparatively little attention from now on. If we are fortunate in count with arod management, on weaning about an average of $1 \frac{1}{3}$ lambs per ewe.
Lambs are all docked and the tup ones cas-


THE FARMER'S ADVOCATE
trated at about three weeks old, care being taken to avoid cold, dry weather for this operation. At
this time we also mark all lambs with our special ear-mark. They are ally again just after about the beginning of July, and againevition of
weaning, if found necessary, for the prevention maggots. Weaning-time with us is about the first of August, and, after the lambs settle, they are folded on clover aftermath. A month later they are taught being ircreased up to about one-third of a nound per day as the clover fails. By first of October, a few-perhaps 40 -of the best lambs are ready for the fat market, and shoubbages or y
34 to 36 shillings each. A few cabber 34 to 36 shillings each. A A ready, and these are given on the grass, the quantity being increased as they are better cleaned up. About irst of November the amop has been lifted and stored in rows of three to five-ton pits. These turnips are now put through a root-cutting machine, cut into finger pieces, and fed to the sheep in troughs,
feeding four or five times a day, and only leaving feeding four or five times a day, and only leaving
as many in the troughs at night as they will have cleaned up by next morning. Another set troughs are kept in a row for grain-feeding.
usually make up a mixture of grains: equal parts usually make up a mixture of grains. equared with
of oats, maize, distiller's dried grains, mixed treacle and soya or cotton cake, and with a little salt, equai parts, giving two-thirds of a pound twice per day. One-half of the lambe remainder prime fat by the shen they are all disposed of at one or more of the big centers. They ought, ly this time, to be worth 42 to 44 shillings each.
or, an average year, about $15 \frac{1}{2}$ or 16 cents ner pound of carcass weight.
Ahout a month after weaning the ewes are
and brought in. and 40 or 00 of the best are drawn
out to be kept for another year, to put along with the 90 or 100 we again buy. The "cast" ewes are treated much the same as lambs, but
are, of course, kept separate from these latter, are, of course, kept separate from these latte ready to go by November, and are usuall it will
that time worth 36 shillings ( $\$ 9$ ) each. It be seen from the above that the lamss are never
allowed to lose their lamb flesh. That is, in my alowion.
opinit.
profit.
balance sheet
95 ewes, at $\$ 6.50$...
Grazing 67.50 Grazing ? rams, 52 weeks, at 8 c..... 8
Oats consumed by rams and ewes, Turnips consumed by rams and ewes, Mixed grains consumed by lambs, 4.25 Mixer grains at $\$ 28$
tons.
Aftermath consumed by lambin and ewes Aftermath consumed by lambs and ewes
(feeders) (feeders)
Turnips con
(feeders) Sheep dip
Depreciation .......................................... troughs
I.abor




$\qquad$

## Raising and Marketing Winter Lambs

## Baby-lamb mutton between Christmas and

 Easter is in the same class of axuries aithstrawberries and iresh tomatoes at the same the large cities.
The enlitors of ". The Farmer's Advocate" have
asked me to give its readers an article from my asked me to give its readers an article from my
experience
It is about fifteen years since
my attention was first called to this phase of sheepfarming by some articles in a New York paper The prices repcrted seemed to me so fabulous that soon pass, else so many would go into the busisoon pass, erse so mould come down. The articles ness mentioned Merino ewes of the Delaine type as employed in their production. I was then
rreeding that class of sheep, but had never known treeding that class the fall. However, I decided to iry a few, and the first year succeeded in getting ten lambs born in November. They were pure Merinos, so did not grow very rapidy; and as
I did not know how to dress them for the York market, I sold them to a local shipper to go to Cleveland, Ohio, at Easter,
$\qquad$ groving wad demonstrated the possibility business and qualify insself for dressing and preparing thern for market. I secured a sman prepared of Dorsets, including a ram. I had preparen
some Merino ewes for breeding in June, by permitting them to run over a year without breed ing, and secured very satisfactory results in mat ng. I w tll say here, howe spring as in the fall. But that is an advantage, rather than otherwise as we want to ship only a few each week through
a sut the winter, beginning December 20 th. The lambs at this time should weigh not less than 42 pounds, alive, and not much more, and ahould not be over 10 weeks old-better eight. Later in the season the live weight should in
crease to 50 pounds, and an age of twelve weeks is permissible, but a lamb older than that always
sells at a discount. But, to take up the threall of my story, prets
pared to feed the ewes by growing some roots
the winter before I had fed cooked potatoes and (the winter before I had fed cooked potatoes and
bran, as roots are not generally grown in Ohio), and, as soons as I was assured of some lambs, I
and, as soommuncation with a New York com-
got into commen got into communication with a New hork com-
mission firm that handled the so-called hot-
house lamibs, and got instructions as to dressing and shipping
My early attempts at dressing were not very satisfactory to myself, and less so to the commission firm, as I learned by the retetermined to
tone of their letters. But I was deter
learn, and I have, as I have many times gotten the top quotations.
Now as to what I have learned from the ex-
Only Dorsets, periences of intervening sears. Onty Dorsets, Cambs at the proper time of the year. Any of
the Down breeds will produce them in time for Faster, but only a limited number can be used
that weel, and the market always drops abruptly thereafter. The only secret within man's con-
trol connected with securing the mating of the trol connected with securing the mating of the
other breeds at the proper time is to feed so as to have them gaining. Another factor in the
situation is the temperature. I have noticed that whenever we have a cool oune they breed more
freely. 1i I could transport the flock to a mountain at that time, without excessive expense, I in the trade Two rams turned together with
the floch serve as a stimulus to each other. As this is dangerous when both are horned, I have
practiced putting one horned and one polled torether, using two to each hundred ewes, and al
ternating with two others each ten days. The short-wooled rams are preferable, as the
less wool on the lamb at slaughter time, the $\$ 3,004.35$ less wool ong ther it looks, and that is advantageous.
$\$ 2,255.43$
younger
The flesh of a first-class lamb must be light
$\qquad$ colored. To secure this, the lambs must be kept from exercise : this means they must be confine to stables, and closely confined. No spring
tooards are provided for their amusement. On the hoards are provided for their amusement. on the
contrary, the flock is crowded, so there is ng
ne chance for them to play, and that they will be
iorced int") their own apartment, where feed in ariety lempts them to eat several times a da
as soon as they are old enough. They begin eat as soon as they week. It may strike a Canadia
ing the third with
with constrnation to learn that corn is th principal grain fed, even from the start.
enourh oats, wheat, bran and oil cake being. enourh oats, wheat whan in necessary to induc
themorl variet, which is
then to eat sufficient. Another stimulus resorted to is that of giving fresh feed several times
dave it have gotten hetter rosults in this wa day is hase goten hetter resmits in this wa That of letting the cattle and other stock out up
on the pasture iields before the grass gets, a fai

 Itsteyn or paining, weight or condition when the

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lambs are weaned (at four months old) and they
are put in the best pasture I have, with a couple of aces of rape near-by, to which they have rree
of acess after two or three feedings. during the dry
 of new green clover for the same reasons.
they have access to a patch of turnips for an hour each day. hour After weaning, we keep our ewes on our poor-
est pastures until they are dry We We milk them
out several times to avoid in tory ters.
out der der we put them on good pastures, rape, out seve, we put them on good pastures, rape,
Atter dry, weape.
turnips, etc., to fush up for the mating season. Wo consider good condion is the secret of getting at time or martion of twins, or a good crop of
a large proportil have many ewes, better results lambs. If you have many ewes, better result.
will be obtained if sire is shut up in day time, and given a pint or two of oats morning and evening getting animals.
 to get
the lamb
T have outlined my method of breeding, feeding
and care. Regarding the cost, $I$ am not prepared to say, definitely, as am too busy a man to
bother with weights and measures, althourh it is bother
businesslike and a great satisfaction to the man who has time, to know where the prout ang ass
occurs ; but, as I feed largely on roughage and cheaply-produced foas.
over the cost, as I can keep five sheep on what one good dairy cow will consume which produces
me about 6,000 pounds of milk per year, at about 86 cents per 100 pounds, or $\$ 51.60$ net, manufac putting the whey against the milking, extra cara etc., which the lamb does in case of the sheep
My ewes average me a lamb and a half each, on year with anotere a dol the price of grade They have also averaged $8 \frac{1}{t}$ pounds washed wool
I usually for years, at, say, 20 cents (trade). I usually
realize 25 cents by turning the finished goods from Thofite from five ewes would be $\$ 83.50$; profit from cow, $\$ 51.60$, leaving a balance in favor of
sheep of $\$ 31.90$, sayinc nothing of their value as sheep or
weed eradicators, ease of care, etc. Put grade sheep at half the price of registered stock against
the 3, 300 -pound dairy cow, and protits from then will be about equal to the above example.
Hastings Co., Ont.
F. A. COMERFORD.

THE FARM.
Selecting and Testing Seed Corn. There is little use, at this date, in lecturing armers on the importance of making caretul seec-
tion of corn ears for seed. That work, however 1s very important, and it is hoped that many
"Farmer's Advocate." readers looked after it at the proper time. With many who husk some
corn, selection is made while husking, the finest ears only being chosen. This is good practice, but a better is to go through the corn just before it
is cut and choose good ears on good stalks, from hills that have the full number of plants. Such
an ear is likely to be more valuable for seed than an ear is likely to be more valuable for seed than
a nuuch larger one which grew on the only stalk in a hill. The ears should not then be broken
off, but the stalk should be cut, and, with others, selected, shocked separately, and husked a little
later. A considerable percentage of ears will have later. A considerable percentage of ears
to be discarded when husked, no matter how careful the selection has been made, so that it is well

## needed. For one's own seed, it is a small mat- ter, at best, as so few ears are required to plant

 an acre. Never, never, put off seed-ear selectionuntil severe frosts have occurred. The outside
ears of a shock are easily injured. weaed should be thoroughly dried before cold weather, if vitality is to be maintained through-
out the winter. This can be done by hanging
behind or above the kitchen stove, or under the roof of a shed or corncrib. For winter, it is
much better. where practicable, to store in an
attic or come room where temperatures are never low, than in the woodshed or barn, where the
frost is almost as severe as it is outside. Seed corn treated in this way will not only
grow, but make a strong start. But even though
one may feel perfectly sure about the vitality of one may feel perfectly sure about the vitaty of
his seed, it is very easy, by testing, to make
assurance doubly sure., And, as the great
inajorit. inajorit, of Canadian corn-growers buy their seed,
knowing little of how it has been cared for, this
matter if testing ought to become to them imperatio. If possible, seed corn should be pro-
cured in the ear, not only because some estimate may b. formed of the value of the variety by the
appearance of the ears, but also because tests of
individual ears for vitality may be made. Let individual ears for vitality may be made. Le
no onc imagine that the making of such tests i
heyond the capacity of any ordinary farmer heyond the capacity of any ordinary farmer.
that it is not worth while. With dent corn,

THE FARMER'S ADVOCATE

hall the the land before preserves ane cuts to a good depth in and the spout cuts to a good depth in the fine, make a most excellent seed-bed, and bound to
insure a choice stand. The land can then be regularly cultivated, which is very necessary to
insure a good strong plant, and also to keep the land free of growing weeds, for it must be borne n mind, in this cultivation, that the real feeding value is in the stem and rib, and not in the leaf.
Waterloo Co., Ont.

A Plea for the Birds
aitor the Although the fact that birds are among the
farmer's best aids has been frequently stated, and is well known, their work is so well done, and in
such an unassuming and quiet way, that we are apt to overlook and disregard them. And, though a cessation of their efforts, even temporarily, would result in certain disaster to many lines
of effort on the farm, still there is not seen, on the part of most oi the tillers of the soil, any ine part of mest in their protection and multi-
plication. It may sound odd to hear the multiplication of hirds spoken of as though it were a part of inan's sphere of controo, but such is sure of birds which die each year is equal to the num preciated that a little protection may have a considerable result in the way of increased numbers. Especially is this the case with birds that are
resident with us during the whole year, such as resident with us during the whole year, such as
clickadees and nuthatches, whose insectivorous proclivities are of the highest order. With the aid of these birds, and others, the most astonishing results may somes quoted. The most eminent exponent of bird protection in the world is Baron Von Berlepsch, of Eisenach, Germany. This gentleman has devoted much time and thought to the encouragement of wid
birds in his domain, and has accomplished rebirds in his domain, and has accompus. Such
sults that are little short of marvellous. susults would be more strikingly seen and appreciaterived entirely of the services of birds. There was recently in the neighborhood of Eisenach a plague of tiny moths, whose caterpiliars fairl denuded the the playue extended itsell towards the property of Von Berlepsch, it was found to be checked by his insect-hunting friends, so that, on his place, no damage whatever was done, the near-by trees were stripped
Who can doubt that this striking occurrence is repeating itself in a modified way each year, and that it is possible for each individual farmer to on his own farm? Now for the methods: Two main features
stand out in the work of Von Berlepsch-nesting boxes, and surds that nest in cavities come regularly and easily to holes resembling those made by duced in solid wood and fastened up all over his rounds. His results show that it is desirable to procure these specially-made nesting holes; but ould be that simiar reste use of homemade boxes. If there is any considerable desire to procure the most effective style, I am sure the editor of "The Farmer's Advocate" would arrange for a co-operative purchase the second part of the Von Berlepsch method is shrubbery. Every farmer should devote a small piece of ground, say half an acre, Such a plot should be planted with many wild, berry-bearing shrubs, comprising mainly thorn, viburnum, and cornus, with climbers like climbing bitter-sweet and wild grape, making a treat. The whole should be surrounded with a fence of wire netting, to exclude cats and dogs, as well as man. Such a plot would return insect-eating allies, and it is. safe to say that the farmer who avails himself of the assistance-ready to hand-of the birds will have no reason to re gret the efforts he may put forth in their behal.
London, Ont.

Spraying demonstrations at ten centers, re
re ported by the University College of N. Wales
Bangor, Agricultural Department, showed that the application of a solutson water, po five-per-cent solution, practically destroyed all wild mustard This is a stronger solution than has been recom irended in Canada, where 10 to 12 pounds per 40 -gallon
In March 16th issue, " R. A. P." asks regards tools for joining laterals into main drains. The handsaw and a coarse rasp. GEO. CRAWFORD.
Simcoe Co., Ont.
The box is filled with moist sand up to the level of these wires or threads, and and covered, to keep from drying out. The cut which we publish showa a
shallow box, partly filled with moist sand or sawshallow box, partly filled with moist sand or
dust, which is covered with nuslin, drawn tightly and tacked, on which two-inch squares, each one numbered, are marked with an inder pos A box $20 \times 40$ inches would have 200 squares. and a sack made for the purpose and partially filled with sawdust, about two inches thick, ia firmly (see cut). When sawdust, which is an ex cellent material for the purpose, is used, it should irst be boiled in water to kill bacteria and molds. the tester should he placed where warmer, for five or six days. The ears from which then
samples-four, five or six grains-have been taken should be arranged in sections of tens to corre spond with sections of tester, and where they wil well to place grains with the point towards observer, and the germ side uppermost a root sprout, should be reckoned good

Value and Culture of Rape.
The question has been quite frequently a asked way to prepare land for rape, how to sow, and amount of seed per acre? experience in the frowing of this most valuable crop, and find it excels anything else in the way

of fall pasturage for putting cattle in condition The preparation of the soil, if stubble land should be the same as the old-fashioned summer moisture as possible. If old sod, it should be disked and harrowed through the month of June Shallow-plow the field, or, if sod, to give it an ather the surface soil is thoronghly dry. I use an | ordinary grain drill and |
| :--- |
| provement over the old way of putting land in | drills and using the turnip seeder,

ber hose off from the grain tubes, and use every
third one or every fourth, as you wish, on the clover seeder, with the lower end back into the
hoe spout. If every third is used, the drills will be 21 inches apart, and if every fourth one, the
drills would be 28 inches apart. I I use every Then shorten the chains of the idle spouts, so as not to loosen the rolled bed. With a 13 -hoe
drill, five rows at a time can be sown, as the wheels measure the same distance apart as than necessary for the number of tubes, close these
With the sectler set for ordinary seeding of clover or timothy-that is, from 9 to 11 pounds
$1 \frac{1}{2}$ ner acre-it will sow in 21 -inch drills about $1 \frac{1}{2}$
pounds per acre, which is about as near the re which is abundant if the soil is well propared.

1

What Crop shall We Grow?


## Sowing Mixed Grains

Fxperiments. conducted over a series of years auitable varieties of barley and oats, mixed in th right proportions, produced er of the grains when grown separately. Whenever flax, emmer, spring wheat or hulless ats and barley, it decreased the
ard mixture of oats and yield per acre, even though a greater amount of seed was used in each case. The average resules number of pounds of grain per acre were produced from the mixture of one bushel oats (34 pounds) $\begin{array}{ll}\text { and one bushel barley ( } 48 \text { pounds), or a } & \text { total } \\ \text { amount of } 82 \text { pounds mixed seed per acre. } & \text { Six- }\end{array}$ amount other different combinations were used in the trial. Another point of interest brought out in
two distinct experiments was that the largest amount of seed gave comparatively low results in grain production. A mixture of five pecks of
oats and five pecks of barley was surpassed by a raixture of three pecks each by an average annual
yield of over 87 pounds per acre of grain. The mixture of one bushel oats and one bushel barley
surpassed the mixture of five pecks of each by an annaual yield of practically 200 pounds per acre.
For this purpose, a very early variety of oats with a six-rowed harley should be used, or a very
late barley with an ordinary-maturing variety of
oata so as to secure even ripening. The tubulated results of a four-years' trial
shows that. prior to 1910, the combination of shandscheuri barrey and Daubeney oats gave a
greater grain yield per acre than any other mixture. With the results of 1910 included, Mandscheuri barley and Alaska oats, one bushel each,
headed the list, with an average vield of 2,551 headed the list, with an average yiend over the
pounds of grain per acre, hy 25 pounds over
of nineteen different combinaother mixture. referred to are the only ones that
tions, the two
zave an average total yield of over 2,500 pound tave an average totar year. The mixture o
of grain per acre per and Manner wats was sur
Mandscheuri barley and passed by the mixture of Mandscheuri whd Daub
eney oats by 107 pounds of krain acre pe en While there appears to he a daeded ad
vear
vantage in growing different cerails topether
the results as favorable when seeded with th
mixed grains as with oats o

## A Well-known Cement-block Silo

Interest in the silo question quickens apace Cement-block ones are becoming rather numerous
Strength and economy are the two main points strength which assurance is sought. One of the earlier cement-block silos in Canada was built by
R A Penhale, of Elgin County, Ont., who, in R. A Penhale, of Ellin county, Ont,, be by 40
1907 , built one 10 feet in diameter inside, by feet in height, the estimated capacity being 20 tons of silage, The owner thus des
./ The material used was sixty barrels of ce ment, fifteen cords of gravel and sand, one thou sand feet of reinforcement, $\begin{aligned} & \text { white } \\ & \text { lime. Three men spent } 12 \downarrow \text { days making }\end{aligned}$ blocks with a concrete-block machine. The mason charged 40 cents per hour, and the hepers for
cents per hour. The size of the blocks from foundation up to about one-half the height wa
foun $8 \times 10 \times 16$ inches; balance to the top, inches. The blocks were were laid up by city ma sons the same as any cement-block structure, with nn iron rod laid in a groove formed in the block to secure same, every third course, the rod making
a complete circle or hoop ; a three-eighths-inch a complete circle or hoop; a three-eighths-ining
rod will answer the purpose well. Regardind cost of hollow concrete-block silo, as compared cost of hith solid concrete, I am of the opinion that the
whill
how-hlock silo will cost a little more. I think hollow-block silo will cost a little more. I think
it will be just as durable, amply strong, and rather more desirable
In reply to a recent inquiry as to how this silo
was standing the test, Mr. Penhale writes us as was standing the test, Mr. Penhale writes us as
follows: ollows: Our cement silo is standing the test of time
our satisfactorily. There is not a crack or a check
in it as yet. It is certainly all we expected or in it as yet. It is certainly all we expected or
could desire, and I would, without any hesitancy, could desire, and I would, without any hesitancy,
recommend the building of a cement-block silo. The cost I would estimate to be in the neighborhood of ten to twenty per cent. more than the slop silo, but for me I think it is more than
worth it. Since our silo was built, there have been several built in this section, and they all
are built with cement blocks, and are giving good are built with cement bill note below the detailed
satisfaction. You will a few years ago. It being an experiment, at that time, it cost more than it should cost to build
it to-day. You will also notice that the price of cement was higher than it is at the present time. would not use so much $\frac{1}{\text {-inch iron, but would }}$ of iron, and also some labor. I would also re duce cost by not using so many ten-inch blecks $16 \times 40$-foot silo; for a less size, 1 would use
only eight-inch blocks. 60 barrels cement, at $\$ 2.10$.................. $\$ 126.00$

 | 500 feet $\frac{1}{2}$-inch iron (round) |
| :--- |
| 250 feet $7-16$-inch iron (round).................................. | 250 feet $7-16$-inch iron (round)

250 feet
8 -inch iron (round)
$12 \frac{1}{2}$ days work, 3 men, at $\$ 7$
5 days work, 2 men, scaffolding and 85.7 . plastering, at $\$ 5.00$
400 blocks, laving up

## Total $\$ 417.8$

'. We estimate the capacity to be about two
hundred tons. I may say that it takes fifteen acres of good corn to fill it. To my mind, it is
very important to have a good foundation, and
five or ten dollars extra spent in tion is good economy.
"We have a cement floor, and it has proven to be all right. I might add that, before we built
cement silo we had wood-stave silos standing on cement silo we had wood-stave silos standing on the same place, and, in excavating to the depth clay was permeated with very disagreeable stench from the leaching of the old silo, down the fu
depth we went. How much further it went Cepth we went. How much further it went,
do not know, but it thoroughly convinced me

Fxperiments as to the effect of weeding and neing on mangels, by University College, Read-
ing, for three years, gave the following results: Singled only, 21 tons per acre ; once hoed, 32 ons: $t$ wice hoed, $36 \frac{2}{4}$ tons; kept clean by hoe
ing, $36 \frac{1}{2}$ tons, kept clean hy hand weeding, $37 \frac{1}{3}$
nins.
 also prevented from coing to seed that would have
urontly prejudiced succeeding crons.

Tpaction Engines Upon the H:sh way.
In reading your journal, some time ago, no-
In In reading your journal, some time ago no-
ticed a question to this effect: Why do the. shermen not have a dust-collector attached to their machines, thus making the work of threshins mote
agreeable? The writer also stated that ho would be willing to pay an extra fee for operating it. To the thresherman with enterprise enowin to invest his money in an outfit to do custom work,
this is a fair proposition, and one likely to be
talen advantage of if he desires to keep busv durng then advantage of if he desires to keep bumb durobs possible. of the farmer in getting his work done with dispatch and the least possible labor, providing it does not interfere with the quality of the work
done. The demand for labor-saving machinery done. The demand for labor-saving machinery
has brought out in recent years a threshing machine with a self-feeder, straw-cutting attachment,
wind-stacker, chaff-blower, dust-collector, high weigher and bagger, or a grain-blower. While this
machine weighs nearly as much again, or more, ai the old-style carrier machine, it does away with more than half the men formerly employed at the hreshing. The objection that a machine up-todate in all respects costs more, is met with the elbow-grease. The majority of farmers patronize the new-style machines.
Since steam power is
Sise star is the best for the purensines and, as from twelve to fourteen horse-power
ensed to operate the old-style separators, I think an engine of twenty-four horsepower not too much have a little reserve power for unfavorable cir-
cumstances
A twenty-four horse-power engine, properly proportioned, will weigh about twelve pel itgelf and be able to draw the separator from place to place, using the roads and bridges the same as the travelling public.
But, look here, Mr. Thresherman, if you cross a hut, Look here, Mr. Thresherman, if you cross liable to in prosecuted. The law requires that
no greater wisht than eight tons be put upon a hridge at one time. Oh, well, you say, I'll get a tweighs below the limit required. In other words you will use a horse weighing thirteen hundred pounds to do the work that requires one fifteen
sixteen hundredweirht. The engine will have short life to live, but it will not cost as much. The sooner it is dumped on the scrap-heap, the vith ar the manufacturer, who wil replace Has this anything to do with bringing the threshing business into disrepute, and is it the reason the proverbial hen's teeth?
But the trouble does not end here. The law requires that planks a certain width and thickness ne laid the full length of the bridge in the path o veighs eight tons or one. The law does not specify whether the thresherman may carry the
plank on his engine or on his back, nor does it plank on his engine or on his back, nor does
forbid him to take it all apart and carry it over option.
Now, what I would like to know is this: If such machinery is required by the farmer, should the thresherman be treated like a beast of hurden by having such laws on the statute books?
The only reason that such a lopsided law exists, The only reason that such a lopsided law If it was, its unreasonableness and impracticability Lario would do well to take a hint from the West-

ern farmers, who probably think that the way to | cet legislation in their favor, and get it soon, is |
| :--- | the thresherman's right to make himself noxious hy wantonly breaking bridges, yet he should be nowed the sarme freedom upon the highway as

any other traffic. I know that the use of plank does protect the floor of a wooden bridge, but let them be put in place permanently by the path-
masters or overseers, instead of asking tractionengine owners to carry them.
Waterloo Co., Ont. ANGUS BOWMAN, Thresherman and Farmer. Note.-The Ontario law regarding traction en-
gines provides that no traction engine exceeding gines provides that no traction engine exceeding
20 tons in wight shall be used on the public high-
wavs. Where a traction engine not exceeding 8 tons in where a traction engine not exceeding tons in weight is used for threshing or road cor trength of bridges over which it may pass, but the owner of the traction engine is required to
indect the floor of bridges and culverts from inCury usine sllot of bride plank for this purpose. Where

Nitro-culture for Legumes. - (Press Bulletin.) During every seal Laboratory of the Ontario Agricultural College has sent out to farmers and others cultures of bacteria and other clovers, in order to aid in insuring a better catch of the seeding. the small nodules are of the " which are naturally formed on the roots knots clovers, and which may usually be readily seen when a clover or alfalfa plant is dug up and the earth carefully broken away of these bacteria to draw upon the great supply of nitrogen in the air (about for it to the growing plant. Thus, by the aid of these nitrogen-gathsupply of this most valuable fertilizing element, nitrogen, from th in the soil. This explains the
pend upon what is
fact which every farmer knows, that clovers and richers. When these crops are plowed under, the
extra amount of nitrogen which has been stored up in them becomes available for succeeding crops. It is absolutely essential that, in order that the
cumulating bacteria be present cumulating bacteria in the clover plant be accom-
storing of nitrogen
plished. If a clover or alfalfa orop has been successfully grown, as shown by thrifty, vigorous the roots, it indicates that the necessary bacteria trate the roots as soon as germination of the see occurs. In the case of a new or unsuccesstul seed-
ing, however, it is probable that the bacteria are not present, and they should be supplied by some method of inoculation. Experience has show that the most. satisfactia directly to the seed be is ore sowing. This is the method to be followed rivuelph. Last year there were 3,375 of these bacterid
cultures sent to 1,881 farmers, and, of 771 who returned reports, two-thirdz stated that the inocuDuring the present season the College will send cultures for the inoculation of the following kinds of seeds: Alfalfa, red or mammoth clover, al-
sike clover, white clover, crimson clover, vetches, peas, beans, sweet peas. Each kind of seed sent
quires a diffrent culture. The cultures are sent
instructions for their use There is only one size package prepared, that beis a nominal charge of 25 cents for each package Applications should state the kind and amount of
seed to be treated, and should be addressed with enclozed postal note, stamps, or money order, to
S. F. Edwards, Ontario Agricultural College, Guelph, Canad

Use of the Saccharometer. The saccharometer may be used to determine
the density of the syrup, either while it is boiling or while it is cold. There is required a tin test one-half inches deep, into which the syrup, hot of cold, is poured for the purpose of testing.
test tube is filled with the hot syrup, and the sac-
If the syrup is of the standard consistency or thickness, it should settle at $30 \frac{1}{2}$ degrees. In ent will dip not yet thick enough, the instrument will
deeper and register less than the $30 \frac{1}{2}$ degrees. If
register more,
If the syrus, is tested while cold, before being poured into the test tube, it must be first brought
to the ordinary temperature of a comfortable room, that is to say, 70 degrees F . This tem perature is ascertained by means of an and left thermometer plunged into do
there, while the syrup cools to 70 degree F. Then this thermometer shour, which at that and replaced by the saccharometer, whe syrup has temperature should register es.
Testing with the saccharometer is a delicate and the saccharometer are not excessively hot or atherwise that might unduly influence the intact. Care must also be taken, in hot
to pour the syrup in while it is at the
point, and lose no time in introducine the ometer, as the dens not in use, it is wel
of cooling.


Sait and Land Plaster

Edithr" Mour article on " Salt and Land Plaster for Barley lizers, prompts me to send you the results of some of our expuriments. Some years ago we tried an experiment of spring wheat; the field pound bed another pounds ciore criter drilling; an ther acre sowed after the plants were the rest of the fiold received none. There was no apparent effect until heading-out time. The fest of the field; the second acre, a little later the third acre showed little or no difference from the rest of the field. At harvest the crop was nll equally good, but the first two acres had much the brightest straw, and was the most

We have on other occasions repeated the ex veriment, with the same results, viz, earlier ma turity,
say that our soil is heavy ciay. We believe that
it would always pay to sow it for barley, though we do not, for the reason that we seed clove fect of land plaster for barley and clover seeds, but in this case as with the salt, the effects are much more marked when sow The reason probthe seed-bed before drilling. the surface after the crop is un, there is not sufficient moisture to make it effective. On one occasion we dressed field of clover in the spring, all but about two was dry and the cron fair, but not heavy. There was no noticeable difference in the field. The fol-
was
wown lowing season the field was sown to oats. a very part that received over the part that received marked superg either that the plaster was not in an available form for the clover crop, or that it hecay of which had enriched the soil. T, and plaster is not used to the extent merits doserve. one reason weed hadly a machine to sow it. When sown on clover or pasture,
should be done, if possible, before spring speding for the best results

Sow Extio Mancel and Beet Seed this Year
Permit me to intimate to your readers that, in order to abridge the danger of the partial failure of their mancel and beet crops, they will this year neer to be particnlarly careful caple of producing sprouts, and to adjust their seeders accordingly. Because of the climatic conditions in which we 1910 in those European countries from which all obtain our mailable supply this year is low in percent a 5 年 of vitality. Our Canadian seed merchants have been doing what they could to procure seed that would conform with the provisions of the Seed control Act, which fixes a standard 90 per tality for good mangel and 160 sprouts from 100 seed halls (what is commonly known as mangel seed is really a pruit containing from three the persmall seeds), and the law is that when of this centage standard for good mangel seed, then the seed mus standard for goowing the actual percentage of
he labelled, show balls and of sprouts capable of being produced
from the seed. All the seed inspectors now in the field have been notified to pay particular attention to the quality of the mangel seed exposed for sale; but the information and punishments proseed merchants resulting theer this year. There is no need for any farmer to reduce the area intended for planting to mangels, and he win suffer no danger from crop fatermine the percent age of seed balls capable of germinating, and in In most cases it will be found that at least one half more mangel seed than usual wily have stand
sown this year to secure a reasonably good stance of plants. Farmers should give the preferend no
mancel seeds put up hy reliahle firms, and
hasitate to procure seed of their favorite vari eties from hags or packares on which the per



## THE DAIRY.

Excited a Wholesome Discontent.
Editor "The Farmer's Advocate ": We commenced the work of keeping cow was one hat was organized in order to make use of Government aid along this line. Personark, Instead never regretter an irksome task, as many would have us magine, it has proved interesting and profitable. The time taken in weighing and sampling the ilk of each cow three days of each month, as we 10 it, is never missed, but rather looked upon as time well spent at the end of make a daily record of each cow. At the end of each month it takes but a short while in one evening to total up each ow's production, set it down opposite her num ber on the sheets furnished by the Dairy Division, containing a sample of each cow's roilk. This is taken to our cheese factory, where the site each cow's number, and forwards the sheets, having the cows' production of milk for the past month, also her test, to the Department of Agriculture, at Ottawa. keeping the records are well known to any who have studied this matter. A spring-balance scale, a box for bottles, a sheet for tabulating weights of mails into bottles, are all the equipment necessary. The cost of these articles or a twenty-cow dairy why all this bother? Why not feed the cows, and dispose of your milk fo all that you can get for it ? Well, for one thing, which means a lot of work that is unavoidable which means you get the most from each one that yo can, and how are you to be able to do this un less you know each cow individually as regard
milk and butter production? And, further, how are you going to raise heifers which we all want to be better producers than their dams, unless besides breeding to a pure-bred sire descend our breeding cows is the best for milk and butter-
fat? At the end of our first year's work of testing

$$
\begin{aligned}
& \text { at the end of our first year's work of testing } \\
& \text { At the some no } \\
& \text { we found we had some good cows, and some no }
\end{aligned}
$$

$$
\begin{aligned}
& \text { we found we had some good cows, and some not } \text { got } \\
& \text { so good. Ou final returns from the Department }
\end{aligned}
$$

shat year showed us an average, for twenty cows

$$
\begin{aligned}
& \text { that year showed } \\
& \text { and heifers, of } 7,500 \text { pounds milk and } 250 \text { pounds } \\
& \text { butter-fat. Next spring we kept our heifer calves }
\end{aligned}
$$

$$
\begin{aligned}
& \text { butter-fat. Next spring we kept our nevious year, } \\
& \text { from the cows that tested best the previ }
\end{aligned}
$$

rom this past season we had two- and three-year-

$$
\begin{aligned}
& \text { and our sup- } \\
& \text { old heifers giving us as much as what ous as the first year we entered } \\
& \text { posed best cows gave us the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cow-testing work. In three seasons we raised our } \\
& \text { herd average from that just mentioned to } 9,100 \\
& \text { The }
\end{aligned}
$$

$$
\begin{aligned}
& \text { herd average from that just mentione forer pounds butter fat. This } \\
& \text { pounds milk and } 300 \text { pound }
\end{aligned}
$$

$$
\begin{aligned}
& \text { was an increase of } 1,600 \text { pounds milk and } 50 \\
& \text { wounds butter-fat, which I am sure we would }
\end{aligned}
$$

$$
\begin{aligned}
& \text { pounds butter-fat, which } 1 \text { am sure we would } \\
& \text { never have had if we had not tested, as we were }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to starting to test. Turning to the financial end, } \\
& \text { which is the important part to us all, we find }
\end{aligned}
$$

$$
\begin{aligned}
& \text { which is the important part to us all, we find } \\
& \text { an increase of } \$ 14.50 \text { per cow-i. e., s8 pounds }
\end{aligned}
$$

$$
\begin{aligned}
& \text { increase of } \$ 14.50 \\
& \text { hatter, at } 25 \text { cents. }
\end{aligned}
$$

We read a lot to-day of the value of weeding, eeding and breeding to increase milk production
all over this Province, but never did we realize all over this Province, but never did we realize ntt-repeated text of our professors, dairy instructors. etc., to its full extent until we com-
menced individual testing of our own cows. We menced individual testing of our own cows. We
have also been stimulated towards the better feeding of our cows, the growing of crops necessary to the cheap production of large quantities of milk, as alfalfa, clover, and corn for ensilage.
This whole business of milk production has been This whole business of milk production has been
made more interesting by these instructive monthy returns from Ottawa.
Another important. point: Buyers of dairy stock to-day are looking for these records; and
if you have them to show, you can seeure quite an increase in price over that ohtained by your neighhor who does not test. Anvthing in the dairy line, from a three-year-old calf to a twelve
year-old com, or older, has an enhanced value year-old cow, or older, has an enhanced value
where these returns are down in black and white Cost of each cow's feed (average)
 Profit
These returns are only the averaces from the
They do not inclute value of shim milk, whey, and call ure-bred herd onlstrins. C. E. MOORE

Centenary of Jersey Cattle in England.
Although small consignments of Channel Island ped to England, it was not until the year 1811 that any systematic effiorts were made to intro
duce the breed into that country. According to C. P. Le Cornu, says the Live-stock Journal, the earliest arrivals in England came from the Island of Alderney, a fact which doubtless accounts for
the frequent substitution of the term Alderney for the freed now so generally known as the Jersey. George Culley, the eminent agriculturist and authority on cattle, writing in 1807, mentioned the Jersey as a breed only to be met with on
the estates of the wealthy, and one which was too delicate and tender ever to be of use to the Brit-
ish farmer. How very sparsely distributed was ish farmer. How very sparsely distributed was the breed at the megen from the fact that Michael Fowler, who bought cattle in all parts of the country, had never met with a Jersey until just before he commenced his importations to this Mr. Fowler may well be ascribed the honor of introducing and popularizing the breed which at
the present time holds so high a position amongst the present time holds so high a position amongs
dairy cattle. On one of his iournzys in search of cattle f the dairy, Mr. Fowler passed a man driving a
tle cow, unlike anything he had seen before, the cow, unlike anythquiry, the drover told him that the cow had been sent as a present to his master, who did not like her, and that he was
sell her for $£ 9$ Mr. Fowler offered $£ 7$ for it sellending to give it as a litule present to his wife, whom he had recently married. This offer was
declined, and the drover took the cow to the fair declined, and the drover took the cow to the
where it became an object of ridicule among the dealers and drovers-so much so that the man, enough again. returning, and enough, Mr. Fowler overtook him at once accepted. Mr. Fowler was so surprised
by the quantity and quality of the butter pro duced that he determined to find out whence she covered that she came from one of the Channel Tslands, and he soon went direct to the Islands and established a regular business with this counCry, and which his sons extended to Belgium,
Inited States, Canada, and various parts of the world. He urged the Jersey farmers to improve their breeding, established a scale of points, and and shows like those held in Enfland Mr. Fowler often acted as judge, and took prizes, ohtaing slasgow, in 1850 , and a gold 1856, the Emperor of the French purchasing his prize bull and four cows. He sent them in England, selling the remainder privately and by auction. He left his business to his sons, L. P. of the business in one family, it may be menbeing carried on at Watford by his sons, still flourishes under the direction of P. T. Fowler, his crandson. The well-known firm of Messrs.
Fowler and De la Perrelle, at Southampton, repesents another branch of the same family, G. H. ons Perrelle being a rrandson of Edward Par sons Fowler, who, aiter helpung his fatner,
Michael Fowler, started business on his own ac-

Feeding a Record Maker The sensational performance of the Canadian-
pred Hostein-Friesian cow, Fwergreen March,
whose plotorraph was reproducell in The Farmer's Advocate " of March 30 th , together with
notes of her recent phenomenal daily, seven-lay
and thirty-day records. renders timely and interend
esting thise notes, sonicited by "The Farmer's
Advocate "from her feeder. Percy Clemons, about how she was cared for frior to and durms het ". Evergreen Maw freshened October 28th Athourh piving over to pomimb haile September
15 th. 1910 . 1 commencoll fol dry her then, as sha was due to calve lecember 12 th . and 1 wished to
officially test her. 1 dinl wat silceed in dry ing her completely until Octolner 1 st So she was vember 1 st. 1910 , she was on bowd pasture, an
aster the attack, she got very little grain for
some time, but gradually improved in milk, from some time, but gradually improved in milk, fron
16 pounds on December 16 th, to 90 pounds on 16 pounds on December 16 th , to 90 pounds on
December 31st, and was able to take more feed
Her test was below as production increased. Her test was below
normal from calving, never running above 3.4, whereas in former years it ran from 3.7 to 3.95 per cent. This I doubtiul about starting a test for some weeks on account of the low fat con-
tent, but, as she continued to increase in milk tent, but, as she continued to increase in mik
production, I applied for a tester, who arrived on January 23 rd, she being milked out that even ing. She was milked at 5.30 and 11.30 a.m.
and 5.30 and $11 \mathrm{p} . \mathrm{m}$. Her first day's milk in test was 100.1 pounds; her last day's milk, February 22nd, was 98 pounds. Her highes milking during 24 hours was on Feb. 12 th, 110.8 pounds, and hounds. daily "She was fed silage and grain three times daily, at 6 a. m., 12 noon, and 6 p. m., imme feeds each consisted of about 20 pounds silage, pounds bran, 4 pounds oat chop, and from 3 , to $3 \frac{1}{2}$ pounds oil cake; the noon feed, of about or 7 pounds silage, 2 pounds bran, and 3 pounds
oat chop-the grain ration varying from 25 to
is pounds daily. She had all the mangels she 29 pounds daily. She had all the mangels she
would eat, fed whole, at $1 \mathrm{p} . \mathrm{m}$. and $11 \mathrm{p} . \mathrm{m}$.about 40 pounds at each feed. Also had alfalfa running in box stall), and water before her all the time; sie drank from 220 to 240 pounds water daily. We were handicapped through having
sucerssion of foggy, rainy days, it being a hard task to keep her cool enough. Doors and win-
dows were open, except in the very coldest dows were open, except in the very coldest
weather, and temperature kept as low as possible in fact, on some of the colder days ice
wound form on the water in her stall. She needed a low
I ever tested.

Another Record-loreaking Holstein amount of butter produced in official test has re cently been broken by Pontiac Clothilde De Ko Brothers Co., of Liverpool, N. Y. In seven days she producerl, 634.1 pounds milk, 37.2 days, 2,588.4 pounds milk, 145.29 pounds buttera showing that has never been equalled by any
cow of any breed. Pontiac Clothilde De Kol 2 n is a regular brceder and a persistent producer
Calving for the first time a few days after she was two years old, she produced 16.85 pound this to 22.09 pounds. As a four-year-old she macee a great record, 28.72 pounds butter in
seven days, and as a five-year-old made 30.27 pounds; while her sensational record of 37.21 pounds was made in her six-year-old form. No used to prepare Pontiac Clothilde Ne Kol 2nd for
her record-breaking performance. She was dry lietween two and three months, ran Sut to pastury late, and whe brought in had a thick coat, al
most like fur. After she completed her thirt day test, she was clipped, in order that the photo would show her milk-vein development, and
immediately increased her milk flow Cays during the A. R. O. test was 94.7 pounds
milk, but she twice since has pounds milk in a day. In 95 days, to March 1st, she has produced, in semi-official test, $8,584.3$
pounds milk, 435.45, pounds butter-the highest
amount ever credited to any cow in the same period of time.
During her test she was kept in a roomy hox
stall, and fed clean, bright hav, an averame of a stall, and fed clean, bright hay, an average of a
lmshel per day of cut roots (beets and mankels)
and fromi 18 to 2 ? , pounds per day of a meain ration composed of bran, hominy meal, oil meal

Dairy Record Centres.
testing movement by the oryanization of "Mairy Record Centers in several localitics. The TRe limited urritory covering something like a radius of six or eight miles. He will he expected to se hre a complete census of every herd, and to his district to keep accurate records of the Avatral corss. It is the int net ion so follow

Schol Results.
O. A. C. Daipy School Results lay, March 24th. Thirty-two students wrote on the final examinations-twenty-six in the Factory Class, and six in the Farm Dairy Class. The Scotia, in the East, to British Columbia, in the So far as we know, all the students have posiions awaiting them, and we have applications for appears to be a great demand, especially for but ermakers. There is roon for a number of hright young men who can qualify as buttermakorth $\$ 60$ to $\$ 75$ ner month, or more Quite a number of the class. left at once to
ake charge of official cow-testing until their fac fories open. There is a large demand for cometent ne poss irregular Well-trained, practical and scientific dairymen
are in demand, and will continue to be in demand. is we are on the eve of marked changes and The following is the proficiency list for the lass of 1911, the maximu2 : 2, James Reid 1,012;3, Robt. M. Halliday, 1,000 ; 4, W. Jno.

 | Teslie Silver, 818;' 9, Chas. Gogrin, 814;' 10 , |
| :--- |
| Samuel Hill, $807: 11, ~ F . ~ R . ~ M c C r a e, ~ 796: ~$ | Tno. P. Limare. 766 ; 11 , Norval Bell, $762 ; 14$, 16, Orville Habkirk, 735 ; 17, Wilfrid. James Arscot. 723: *18, Albert' James Elliott and Samuel F. Hunter, $726 ;{ }^{20, J .}$. M. Gordon, 716;

21, Harry Barnett, $694 ;{ }^{*} 22$, Martin Millard, Ed. Scott, $661 ;{ }^{*} 25$. Wm. Floyd Parker, 644 $* * * 26$, Alfred C. Lister, ${ }^{5}$. ${ }^{*}{ }^{*}$ Failed in Bacteriology ; will require to take *Failed in Bacteriology ; will require to take
sunplemental examination.
$* *$ railed in Practical Cheese: will require to **Failed in Practical Cheese,
take suprlemental examination.
***Failed in Writen Cheese; will require to ${ }_{* * *}$ Failed in Writien Cheese ; will require to
take supplemental examination. Farmi Nairy Class: maximum mark, 940:
1, Miss Grace Robertson, 1,015 (two optional subjects written, making maximum mark 1.140) ; 2. Ernest A. McCook, $746 ;$ 3, Charles Woods,
$721 ;$ 4, Leslie Lechie, $711 ;$ 5, Jas. Lammiman,
6.79: 6. S. Inaba, 583.

## APIARY

Beekeeping $\qquad$
Ittle suppose no usefu! animal or insect is so the fact that bees stine make honev and swarm popular knowledge is vague and mithical. At
the same time, everyone is interested in a general There is something verv fascinating about the nhabitants of a hive. They are so active and
alert, as they come and go. Then, there is the snice of danger, which gives zest to a desire for
loser acymaintance. Reine initiated to the wonGers of the interior of the hive does not lessen
the interest. Indeed, the mysteries increase with
In
$\qquad$ is a case of what the fraternity calls "bee-fever,"
The clut ios of the apiary are generally pleasant,
alwave in the "a the weather is bad. The work is mostly clean. Bees are of value as fertilizers of fruit and
Ben
$\qquad$
$\qquad$
$\qquad$
$\qquad$



 The market for honev is only in its infancey

 Nint tho funmer that vere keenint enowth beres $t$ Maxicins atvertsisins wolld so increase the con-
$\qquad$
fit of such that this series of articles is being preof course, a never-ending mystery about the deeper things of bee-nature, but the fundamentals are

## POULTRY.

## O. A. C. Outdoor Hopper.

 Keen interest has been aroused by the illuspoultry house, published in " The Farmer's Advocate" of March 16th. It has brough forth a hopper. This has been supplied by our O. A. C correspondent, whose drawings of the side and end views are respecifications
It is made of - -inch lumber, and the slats
over the front are
$\frac{3}{8}$ inch by $1 \frac{3}{8}$-inch. Material required to build

2 pieces $\frac{1}{8} \mathrm{in}. \times 12 \mathrm{in} . \times 1 \mathrm{ft} .8 \mathrm{in}$. - ends.
1 piece $\frac{7}{8}$ in. $\times 12 \mathrm{in}. \times 2 \mathrm{ft} .10 \frac{1}{4} \mathrm{in}$. -bottom. 2 picces $\frac{7}{\frac{7}{7}}$ in. $\times 3 \frac{3}{3}$ in. $\times 3$ ft.-bottom sides.
2 pieces $\frac{7}{3}$ in. $\times 2 \frac{1}{2}$ in. $x 3$ ft.--top sides.
 2 pieces $\frac{1}{2}$ in. $\times 10$ in. $\times 2 \mathrm{ft}$. . $10 \frac{1}{4} \mathrm{in}$. - side divs. 2 pieces $\frac{1}{2}$ in. $\times 1.2 \mathrm{in} . \times 3 \mathrm{ft} .2 \frac{1}{2}$ in.-cover.
2 pieces $\frac{1}{2}$ in. $\times 6 \frac{1}{\frac{1}{2}} \mathrm{in} . \times 1 \mathrm{ft} .8$ in.-cover ends.

Sulphup for Feather-pulling. Editor reading "The Farmer's Advocate" this spring, 1 have noticed several communications
from correspondents complaining of hens feather eating. I have had this trouble for several win-
ters, and have tried different remedies. In Febfeathers off one another in the region of the oil bottle and the cushion. When the feathers were off, they would sometimes sample the hen herself On several occasions I have found the mangled re
mains of hens killed in this manner. I tried feed ing meat, but it seemed to only aggravate the
trouble. This siring my hens started in to eat feathers
again, so I saw plainly that something had to be
done, and, by experimenting, I found that milk, given as a drink, went a long way towards pre
venting the trouble. but, where the habit. had venting the troube
obtained a hold, it would not cure it. The only shre and effective cure that I have found for
feathereating is sulphur. Feed it in mash or feathereating is sulphur. Feed it in mash or further trouble with feather-eating fowls. The sulphur, if fed in very heavy doses, is liable to
cause a looseness in the bowels, but it will not be serious; in fact, I have found the feeding of My hens have always before them a box filled with ashes, but there are always a few in the
flock that will not dust themselves; consequently these few are liable to have lice. Now, since feeding sulphur regularly, I have been unable to
find any trace of vermin in the flock. This result only comes after feeding for some considerable
time, but I strongly suspect that it is due to the feeding of sulphur. Hen feathers contain considerable sulphur, or material very similar
Hence, it seems to me the sulphur satisfies the cravis.
cears
In very bad cases of feather-eating, where the skin has been broken, a very small amount of pine
tar applieed to the wounds will keep the other
hens from pickin, the wounds and perhaps killing

Convenient Hatching Arrangement.
I have had splendid success during the past winter with my flock of Buccess Orpingtons. $\begin{aligned} & \text { Egg } \\ & \text { production has been good. I have found rolled }\end{aligned}$
ont oats a cery valuahle and cheap food. Feed in a hopper, an! keep always before the fowl. I have
a systet:i of incubation with hens that has given a systeri of incubation with hens that has given
me splendill success, with a minimum of labor. I have constructed a box fourteen feet long, two
feet high. and four feet from front to back. It is covern, with chicken netting, except over the
nest, where a door shuts down. Another door lifts up in front to shuts allow of the admission of foor
and watu., The box is divided by partitions into ten cells. Fach partition has a hole cut in it at crock. These ennugh to admit a five-cent butter
ternaters contain feed and water, alternately and eack crock supplies two cells. The
floor is avered with sand or gravel. The nests are siturtod at the rear of the cell. When a hen
becomes thenody, she is taken from thenhouse
and pla in a cell, one or two eggs being placed

t only in the forenoon of bright, sunny days Your correspondent does not state the nature of point in irrigation. In heavy soils, furrows can be three hundred or four hundred feet long, or
even longer. In light soils, two hundred feet is probably the limit in length. Furrows could also be placed closer together in sandy soils, be-
cause water tends to go down, rather than spread out. If the well is so situated as to give a flow in each direction, it will be easily possible to
conduct the water to any desired part of the planation by means of a heavy cotton or canvas cut be dipped in linseed oil to make it waterproof.
Ontario Agr. College.

The Onion Maggot Defeated. The New Jersey Agricultural Experiment Sta-
t:on issued a bulletin four years ago in which the result of numerous experiments against cabbage and onion maggots are given. The injury caused
by these pests is at times very serious, sometimes by these pests is at times very serious, sometimes
one-third to one-half the crop being destroyed The experiments were conducted under field con-
ditions, and in different sections. ditions, and in diferent sections. Agg a preventive nothing better than disks or cards of
tarred paper has yet been tried. These are about Larred paper has yet been tried. These are about
$2 \frac{1}{2}$ to 3 inches in diameter, having in the center a star-shaped cut, with a slit from it to the edge
of disk. The paper used is one-ply tarred felt. The method of applying the card is to separate the two edges of the slit running to the center, see that it fits snuply about the stem and lies flat on the ground, so that the fly cannot get under it. She will then be forced to lay her eggs,
if at all, on the card or on the dirt heyond it If laid beyond the card, the maggots, when they hatch, will be unable to reach the plant; and, if laid on the card, they will almost inevitably dry The for onion maggots the application of carbolicacid emulsion, and this is given favorable notice
in the bulletin. It is one pound of soap in one gallon of boiling water to this add one pint of crude carbolic acid, and


Side View
View Outdoor Feed H

## GARDEN © ORCHARD.

Irrigation of Strawberpies Owing to the dry spells which we often have during the strawberry season, our strawberries have, this last two years, suffered greatly from drouth. At present, 1 he a rock-wen the center of my patch, he rows Do you think this water would be too cold to apply to the plants? And, if not, what do you consider the most economical way to apply it ? I might say that $L$ have on other occasions columns, and would like to express my most hearty thanks for the courtesy and promptness of Ans. - There is no question, I think, concerning the advisability of irrigating strawberries in dry in a small way for the past few seasons, with excellent results. We have, of course, a good water made use of the overhead sprinkling system, although the usual method is by means of your correspondent's well would be too cold,
yourd
though, as a safeguard it would be well to your correspondent s when, as a safeguard, it would be well to apply
f carbolic acid and lime
most effective of any
tested was a mixture lime to a thin cream, use three pints to a gallon Tude carbolic acid. This can be applied with a sprinkling can or a spray nozzle, and an applica-
tion should be made every week. In the experiment, the patch of onions was situated near a very thorly infested plot. The application was rust on the eround, and the odor of the acid was seemed for several days. The material reated check rows showed a bery slight the union, while the treated plants suffered scarcely at o a considerable extent. The young plants seem to have no difficulty in -
The growth of teaching agriculture in the from G. S. Bricker, Assistant in Agricultural Education, Ohio University, it appears that in the
chonl y(ar, 1908-9, 73 High Schools offered agriculture as a special subject, but now two hundred and sixty-seven are offering such a course. While in some cases the teaching is elementary in character, much of it is quite as well done as in
any other subject, ans there is steady improvement. In the new centralized school, at Boardnan, Mahoning Co, the site covers five acres,


## Spray Calendar.



|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  | $\left\lvert\, \begin{gathered}\text { Just belore } \\ \text { open. } \\ \text { Use } \\ \text { the } \\ \text { D. }\end{gathered}\right.$ | Just Use D.ter |
|  | Shortly betore bdid burst. |  |  |
|  | $\pm \begin{aligned} & \text { Belore } \\ & \text { Use } \\ & \text { D. }\end{aligned}$ |  |  |





$\qquad$

 Antrraconoes
erown
oali strawberry.
spot, whito
grub



 osie. Flea beatee, oaterpllars,
root
maggots, aphidas.




 (limesulphur.-20 lbe. lime, 15 lbe. sulphur, 40 gallons water. $\qquad$




Formulæ for Insecticides.
















heruismar maulsion- $\quad 2$ enle







 make up tor water that ovpportee
YRBTIRTMM (or Insect Powder) :







Formulæ for Fungicides
 Water whe couper sulphate in in owoode Vanee vesesel with hot watert pour int
 4.

## 


the comer wome or on thinee For






 Mnd tor wounds on trees):

 CAUTION-Corrosive aubimate

 sticker.



Asparagus-growing
The principal roason why so little asparayus is before a crop is harvested. During the perion, and develop strong plants, is necessary, ore one row of cabbage, potatoes or shis intercropping grown mot continue, however, as the roots of
should not tween the rows, and should be given the possible at this time must be avoided. The very best strain of plants available should be used. The variety If you grow your own plants, put the
the best.
seed in rows three feet apart, about two inches apart in the rows, on a very rich piece of ground, forcing the plants as rapidy as possible be ready for planting the following plants will one reald plants are much better than
spring.
One-year-old checked less in plants are root-pruned severely at transplanting,
plants are root-pruned severely they recover slowly, making plants generally
much inferst soil for asparagus is a good rich, deep
The betst subl a subsoil. The drain-
loam, with not too compact a suta a depth of 2 s feet. Asparagus can be grow. on light, sandy soil, or on any soll running fairly
light to heavy loam. The soil should be for iree from stone.
avoided are those that are stony, gravelly, or
heavy clay. The ground should be as rich as it heavy clay. The ground shour it advisable to use a
is possible to make it. It is soil that has been previously in a high or forty tons of manure per acre should be applied and worked under. The fee apart, by running two furrows
rows $5 \frac{1}{2}$ or 6 feet and
each way; a third furrow is run along the bottom of these furrows, so that the plants can be
set about six inches deep. Care should be taken to run these rows straight, as they are likely to The plants are set in these furrows as early
in the spring as inches apart in the spring as possible, about 18 inches apart, it inay be necessavel to get the plants set even depth and spread out in natural position.
does not matter whether the plants are set on a solid bottom or not, the the plants. The crown is covered with 2 to $2 \frac{1}{2}$
soil tramped at both sides of the plant to mak
it firm it firm. The shoots from the young roots are
not strong enough to force through a deep mass ing at the start. This tramping is very neces sary to compact the loose soll around the season
and prevent it from drying out. As
advances and the plants grow, the row is filled in with the cultivator. Frequent cultivation to keep
the soil loose and friable, and to prevent any weed growth, is necessary. to grow.
on no account be allowed to nually. The best time to apply
spring, or directly after the cutting is finished. The ground is usualiy manured It is "!visable to
last cut, and plowed under. It
manure the whole area between the rows. It manure the whole area between the rows.
should not be banked close to the crown of the
no plant only for there there is ccupy the full space
nots. The feeding roots occe
The advantage of the spring pplication of manure is that, by the summer it vill be rotted and converted into available plant
ood, so that the plant can make use of it for
on pring. If applied in the fall, the next spring's




THE FAFMER'S ADVOCATE
 Cuting io commenced the third year, and may
he continimed for one month, and arter the third ear may continue until the middle of seed should
ing the linst two vears, plants that staty
be carefuly gathered to prevent seeding, and any plants that do start up from this source stalks are
be promptly hoed out. In the fall the stall
nit off with a scythe and burned. It is wise to delay this until late, or after the plants commence to turn yellow, not so late, however, that see which should be avoided. up and reset to advantage Always start with strong, well-grown young plants. Dry, and this is the time the plants should have abundant moisture ; therefore, see that the ground is well cul-
livated, and no weeds allowed to grow, to prevent the plants from doing their best. Asparagus is put up in bunches of about two pose, which can be got from almost any seeds
man. The bunches are tied with raffia. man. The bunches are tie bunched, it should be put with the butts in water in an ice-cold storeroom for 10 or 12 hours, after which One-year-old plants can be secured at about
85 per 1,000 . It requires about 5,000 plants per acre if they are spaced 18 inches by 6 feet apart. it costs approximately $\$ 100$ per acre per year Fertilizing material, $\$ 40$; labor of cultivating and hoeing, $\$ 20$; cutting and bunching, $\$ 40$. A bed, after it is well established, will yield five vears after planting, 1,000 , whe $\$ 200$ per acre above expenses, and this may be ex pected to continue uninterrupted for the next ${ }^{15}$ years thereafter
Chateauguay

## Pruning the Vinifera Vine.

$$
\begin{aligned}
& \text { The kind of grapes that are grown in Ontario } \\
& \text { and throughout most of the TInited States are }
\end{aligned}
$$

$\qquad$ known as American grapes, and are a distinc
species frem the grape of the Old World, which i called the Furopean grape latis is this later species that is grown in California for wine and for raisins, and
gro it is the grape of glass-houses. The two species
require very different methods of pruning and training. For instance, in cutting back a cane of one of our ordinary varieties, the cut may be
made answhere between buds. It is different

in this
weed
pounds muriate of potash, and 350 a
$\qquad$
 portion of the cane between buds is filled with soft pith, and cuts have to be made protlucell. which are solid throughout, or the pith will shrink away and leave a hollow,
the rain will collect and spoil the cane. The California grape-grower does not both
with posts and wires, or trellises of any kind With him, the vine must be self-suppord ing 90 per cent. of the vineyards of California, and is the
simplest and least expensive manner of pruning the vine. It is, however, suited only to vines on
$\qquad$
$\qquad$
arge onough to admit of a full orop from the small numiber of buds which are left by

## THE FARM BULLETIN.

Farming Better Than Railpoading. Editor "' The Farmer's Advocate ": Warch 1Gth I noticed an article headed, "The March Narm vs. Railroad Life," ritten hy "Farmer's Son. Now, I have never written anything for the press before, but il have too much love for the farm to listen quietly while someone places farm life on such a As I don't know much about railroad life, I will not try to argue the matter, but will just give a little of my experience farmer, with a larg family, and, as 1 was the oldest of work. In had a good chance to learn how to work. year of age, there happened to be a farm of 150 acres to rent, about 100 acres of which was tit able land. farming for myself. For two years and began farming tor mysel all of 1904 I mar led, which made agriculture much more pleasan for me. We then bought a farm of our own, are ince thin half a mile of each other
On January 1st, 1911, after eight years of arming, I took stock of our possessions. ing this, while the live stock, machinery, etc., were placed at what they would be likely to bring at an auction sale. I found that the value of our property amm $\$ 769.00$, leaving a balance of iabilities were $\$ 5,712.50$. Eight hundred dollars would cover the start I got, which shows an increase of $\$ 4,912.50$, an average Now, at the age of twenc-ne; also a wife and with a sturdy boys, and a small debt, over which we don't lose any sleep. During this time we have worked hard, we have also had our times of recreation. Quite often my wife and I get away for a day or two, and occasionally for a week. We have paid our hired niggardly in any way. going, and haven't been niggardly in any way. C. P. R. as office boy when quite young. He was mart and industrious, and earned promo he quickly. Last summer, when he trat en he hadn't
was drawing $\$ 125$ per month, and yet her suved any money. He was a sober fellow, but the railroad man has plenty of ready money, and many, ways of spending it. The young farmet has and, I fancy, when old age comes on, will be more able to retire from active life than his railroad

## The Farm Closet, Again.

Editor "The Farmer's Advocate":
It is always a source of pleasure to me to get is always a source of pleasure to me to get congratulate you on the number issued the 16 th inst. It is full of instructive and interesting
articles, particularly those by Prof. L. S. Klinck and J. H. Grisdale, which ought to be read by every farmer in the Dominion. ly well timed and very necessary (notwithstanding the subject has that prevail on the majority the conditions that prevali on the " disgusting," when a very little labor and small financial outIt may le of interest to some to. know how we overcame the difficulty. I covered the outside of closet with tar paper and laths, procured a doublehinged seat, with lid, enlarged the opening ofseat board so that a large enamolled parin sale four
lowered through (bought at a bargain sal years ago for 39 cents) a piece of galvanized sheet iron nailed on front of seat, and bent it is nearly flie urine into is lifted out and emptied on the manure full, it is isy earth in summer time, and wood ashes in winter, are kept in a box in the closet,
and a scuofful put in after each deposit. Closet and a scoopful put in after each deposit. in sumis swept out periodicaly, In winter, the contents of pail being frozen, we turn the pail upside down. on the manure heap, take kettle of boiling water and pour over it slowly; you colid. It has taken longer to describe than it does to accomplish. As a result
it is a sanitary and odoress
in any way to the most fastidious." SANITAS."
Joliette Co., Que. sanitas.'

The Sayings and Doings of＂Donald Ban．
＂That＇s all good，John，＂said Donald Ban， vigorously．＂Every word you have been saying
is good．I am glad that the things they taught is good．I am glad that the things they taught
you in college are things you can make use of on the farm．
John had just been explaining his plan of cam－
paign for the year＇s work．He had it all mapped paign for the year＇s work．He had it ald mapped
out，from getting the land ready for the crops，to putting away the fodder for next winter． ment about a course，you will have to use your judg for things never happen in Nature according rules．A spell of wet weather or a spell of dry
weather may upset your plans；but when you know whet you want to do，you can do it some
good weather has nothing to do with
d clean seed．＇
ter thing than that in college．There are to many weeds in the country，，and I guess they came
they did insist on its importance．＂
＂I learned that the year you bought your seed oats froin
afterwards $I$ had to pull the wild mustard out afterwards，and I made up my mind then that if 1
that fiel，
ever got started farming $I$ would have clean civer，
takes，Very good，very good ！Learn from my mis－ lakes，as weli as from your books，and there wil you are done，＂said Donald Ban，testily． I didn＇t mean any disrespect，＂said his son， hast：ly，＂t but you tease me so much about col－
lege ways and book－farming that I can＇t help having a fling once in a while，＂
＂I know，but if I didn＇t think it was best for y ou to go to college I would never have sent you． aiways be right，not even the youngest of us．＇＂＂
After this sliot，Donald Ban paused for a while o regain his good－hurror，and then went on．
．：After all，the spring is the time for making good resolutions．It is the real first of the year，
when everything begina on the farm．You can make up your mind what you should do，and
start right in to do it．I am glad that in your pians for the work you didn＇t count on my help，
though I＇ll be glad to do what I can when there is a rusl，on．I have made，my plans for the year，too，but they need not interfere with yours．
The work that you have laid out is work that you can take care of yourseli，with change－work
now and then with the neighbors．I can see now less they are put in right，with plenty of manure
and plenty of work．I guess the man was right who said，You should never borrow money unless to buy manure．＇ynd there is a lot of sense in the
saying，＇Feed your land if you want it to feed young，for the new land was rich，anyway．Bat
we always knew that drainage counted，though we always knew that drainage counted，thoug
we didn＇t always live up to what we knew． remember they used to say of some farmers that they put in their seed and land they would have had crops．＇The time has passed when a man
could＇tickle，the land and it would laugh with the harkst．Farming means well－planned work now，and a man must go at it ine a general go－
ing into battle．I thought at first that testing
the milk and keeping a record of the cows was the milk and keeping a record of the cows was
iust a lot of college foolishness，but now I see that it is right． us it is to have your grain threshed with a ma－
chine that will put hall of it in the straw stack． You are doing all right．Tohn；and，with your
manuring and draining and rotations of crops，
you will soon have the farm better than it was ＂hhen we cleared off the woods and started to rob ＂I have laid my phans for the year，too，but
they are not attogether for farming．I have done
my share of farming．such as it was，and now I am going to try us hand it living．You go on
and make the farm pay．I am going to try to
make it better worth living cin．Tam going to make it better worth
make a garden，plant trees and vines，and try to
wet a liftle of the growth and clayness that is in the world into my own heart．I amm going to
have a professor to teach me，too，and whenever
 con，in beewilderment． 1 have sain． 1 have

## pasing by things that 1 might enjoy．With child it is difierent．Everything is interesting He wants to know the＇how＇and

 why＇of everything． $\qquad$ used to hings，and was because I coultion me about ehings，and it was a mounser a could not always should go where they could teach you all they knew．But I did what I could for you，and ifyou are now proud and fond of farming，and will be a bett．er farmer than any of my other boys，
it is becouse I was beginning to slacken on the it is becouse I was beginning to slacken on the
work and could take time to tell you things and work and could take time to tell you to things．The older boys were made to work，just because I wanted it done；and，as
I think of it，I wonder that any of them stuck to farming at all．I taught them to work，and p haps to work one the work．But answering yo questions as best I could made me see things in a diferent light．While you were asking ques－
tions as a boy，you were not all the time figuring tions as a boy，you were not all the time figuring
on profits，and wondering if this or that would pay．If I have any grudge against the college you went to，it is that they made you so prac－
tical．You see the dollar in things before you do the pleasure and beauty

## ＂I alr．sure I enjoy the beauty of things．A good cow is prettier than a poor one，and a good

 crop than a half a crop．＂ don＇t know as I can make it clear，for it is notvet clear to me，but perhaps with a child to lead me it may become clear．I feel that this world we live in was meant to be enjoyed more than it
was to make money in．Our minds and our was to make money in．Our minds and our
souls were meant to grow，just as much as the grass and the flowers，but we starve and stunt
them．Do you know，John，I feel every spring now．that the world is a great temple，and that these splendid spring days are the entrance to it Every year the work of the world is taken up
afresh，and wisdom is whispered to us by every hreath of air that stirs，but we are so busy that great temple of Nature we are simply money changers，and should be scourged out of it．But
this year a little child shall lead me，and I shall try to make my old eyes see with his young eyes and my heart to beat like his．
＂Have you ever noticed，John，that in Nature Have you ever noticed，John，that in Nature
everything is perfect as far as it goes．The first
bud is a perfect bud，just as much as the leaf is bud is a perfect bud，just as much as the leaf is
a perfect leaf．Its growth is from within，and， as it grows，it grows to a higher beauty．Now
it seems to me that the mind of child it seems Whe When the children come to us they come same．When the children come to us they come
direct from the hand of Nature，and if we helped
them to grow we would them to grow we would keep them from getting ful．The first questions they ask are the ques－
tions of growing minds，and if we do not them off or try to make them learn something else，they will grow naturally．That is where
think our system of education is all wrong．The children ask for bread，and we give them a stone It is quite true that no man can answer all the
questions of a child but his questions point the way along which we should strive．We will never have a good school system until we have Someone has said，and it is a wise saying，that A child learns because of the necessity he feels． they feel．The country child asks different ques
tions from the city child because he sees different tions from the city child because he sees different
things to interest him．Yet we have the same system of education for the city and the country．＇ Member of Parliament，telling him what kind of a school system we should have？＂＇
＂Who？Me ？That＇s nonsense．＂
else．It is not nonsense．You are like everyone tion to the college professors，and then you com
plain because it is wrong．it a question the
farmers must get interested in themselves，and work out for themselves＂＂ Oh，well，after I have been with a child for whole sunmer and learning some things myself in the simple，growing way that Nature intended， want to learn things myself，and，above all things， a want to learn to enjoy．And somehow I hav spring is here again，and the worla is waking，I teach me what is intersting in this world we an
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Dear little boy with eager heart，
Forever on the quest of truth，
your riddlles oft are past my art
To answer to your tender youth．
some day you will understand

$$
\begin{aligned}
& \text { The things that now I cannot say, } \\
& \text { When ife shall take you by the hand } \\
& \text { And lead you on its wondrous way }
\end{aligned}
$$

ear little boy, with hand in mine,

$$
\begin{aligned}
& \text { ear little boy, with hand in mine, } \\
& \text { Together through the world we fare }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I have not yet the strength to bea } \\
& \text { ke you with riddling words I ask, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Like you I hold another hand, } \\
& \text { d haply when I do my task, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { haply when I do my task, } \\
& \text { too, shall understand. }
\end{aligned}
$$

## P．E．Island Seed Fairs．

$\qquad$ came the King＇s County show，held March．First town ：then the＂Provincial，＂，held in Summer－ side，Prince County；and last，the＂Central Seed
Fair，＂a！so open to the whole Province，held at the capital，Charlottetown．Each and all of the three were unqualifierl successes．At Georgetown， which was only a county show，the entries were large and the competition close，as the quality
was nearly all $\mathrm{A}-1$ ，a distinct advance being made over the show of the previous year．The educa－ tional feature was strong，and packed houses
listened to the addresses delivered by the expert istened to the addresses delivered by the experts
who did the judging．A poultry show was held in connection which brought out a fine show of birds of the different breeds．
The Provincial，at Summerside，was a grand exhibition．In all，at this show，which includes
a domestic science department，there were 1,800 entries．The attendance was the largest yet，and the quality of the seeds all that could be desired． As we walked back and forth through the build－
ing，examining the different samples，we were quite prepared to believe the judges when they stated it was difficult to decide on which to place Che prize tickets；and，also，when they stated that
the tenti－rrize samples were about good enough for anybody．One of the expert judges，who is also a grower of hand－selected seed，said that if he had to go over his work again，he was not at
all sure that he would place the awards the same， so eooll were all the samples．The potatoes at this show occupied a big space，and were of grand quality；and it was evident to any observer that he exhititors in this section were experts in se－
lecting the best type of tubers in the many vari－ eties shown． The edicational meetings were held in the
argest hall in town，and were packed on every occasion by interested，eager listeners who were there to learn all that was latest and best along
he lines of improvement in the different branches if farming．The principal speakers on agricul－ an address at the official opening：Professor Ross，who gave an arddress on＂The Advancement ＂f Agriculture，＂：Harvey Mitchell，of the Domin－ On Dairy Department，who gave an excellent ad－
dress．illustrated by charts，which was an educa－ tion along the line of profitable dairying；C．F． Alward，who spoke on＂Seed Selection，＂by the
use of charts showed how well cleaned and se－ lecter！seed had given great gains in yield over
inferior seed．J．A．Clark，Superintendent of the Experimental Farm，gave an account of the meth－ ods of culture，and seed selection，that gave such
results in his experimental plots last season，and results in his experimental plots last season，and，
on being questioned，gave the audience many facts about the science of agriculture and the best and seeding． At all the meetings the speakers were plied
continually with questions by farmers who were intensely $\begin{aligned} & \text { interested to know the why of these } \\ & \text { things．The managers of this show，headed by }\end{aligned}$ credit for working it up to its present status．It Then，the＂Central＂．seed Fair，in the capital Then，the＂Central＂Seed Fair，in the capital
city，Charlottetown，was a grand wind－up for the
whole affair．This is a new show，being in its
俍 first year only；but it was also a grand success． The exhibits came from all over the Island，and
come that won firsts at the other shows had to he content with seconds．It was not so large a show as the Provincial，but in quality was not
much belind．The attendance was as large as at apacity at many of the meetings filled to its full The spicakers were much the same as in the Game．This show owes much of its success to its ener metic president，Rev．P．O．McGuigan，who was
untiring in his efforts to make it a grand success． At this show，as well as as the Provincial，there was th larwe and excellent domestic science depart－
Hent，and also a show of poultry，which con－
t．ined specimens of the very best from some of
隹
the New Brunswick Department of Agriculture, was the New antendance, and delivered an excellent," practical address on "Poultry-raising
ture of the meetings was the giving of much of ture of the meetings on oveng of the show to Members
the time on of the Legislature, who spoke along agsympathy
lines, and showed their strong, active symper agricullines, and showed
with everything pertaming to improved agriculture. Anerican
addresses at the two larger shows, and gave some uddresses facts and figures with respect to the great increase in the agricultural proard Island, in particular.
These seed shows have done and are doing great deal in the interests of advanced agricul-
ture, anu are a special means of waking up our ture, and are a special means to the fact that good seeds are one of
farmers to then
the greatest factors in successful farming.

Railpoading as It Really Is.



 work as tost tor andersing that comes along, such

 "hostler," at night work, at $18 \frac{1}{2}$ cents an hour.
I worked at the first for three months, at the
second for ten monthis-all night work, remember, second for ten wours every night on duty. In the and thi, I was going to
winter,
coming home in the dark
Well, when 1 had put in over a year at the roust thing was a trial trip all over the road, on
frot
Id





 the road is extra husy. If I had stayed on the
road, I would have had to work on this list ford roald, 1 muld have had
at least two years, sometimes working night and
 working at all, when business was sank
ond of two sears 1 might get $a$ steand engine
ond
 wousiness was rushing, and about one-quarter of Just to give an idee of the hours on the road










 The statement that railroad twen are mo

 contented with his octurnation. Ex-PIREMAN.

## Taxed for Improvements.

##  





Facts Favor Reciprocity.

## ditor "The Farmer's Advocate": I read with much interest the article written

 I read with much interest the article writtenby C. E. Parker, of Sherbrooke Co., Que. Mr. Parker is trying to prove, by comparison, that the Canadian farmer is going to be stuck by reciprocity. Let us go over his comparisons and see if they are correct. In the first place, he reprices the prices of pork. He says that pork United States higher in Canada than in the prove whether that is correct, let us refer to the market prices of the same number of "The Farmer's Advocate, in which his article appears. We was $\$ 7.05$, while the highest price paid in Chicago for the same date was $\$ 7.30$, and the highes price paid in Buffalo was $\$ 7.70$
Eggs, he says, are only 8 cents a dozen in firm at that price, although there is at presen firm at that price, although there is at present
only 3 cents duty per dozen on eggs, yet our eggs are selling on the local Canadian markets at from
23 to 25 cents per dozen. 23 to 25 cents per dozen.
He also says there are butter and cheese enough in cold storage in the United States to last for one year, without making another pound. No long ago I read the reportions, in which it said that they had shipped thousands of pounds of but ter and cheese across the border in the year 1910 in the face of the tariff of 6 cents per pound. Why
should the United States import so much butter should the United States import so much butter
and cheese from Canada, with so much in cold storage?
He als
He also says that the Canadian farmer will be in the hands of the American beef trusts. How
can that be, with the duty off Canadian cattle


Pontiac Clothilde De Kol 2nd.
Holstein-Friesian cow which has just completed a re
age. The correspondent whose views he is com the same subject, however, in his reference to the this season, as if that was the normal conditio in regard to these articles there, instead of being, as it is, very unusual ar years. This error on both sides shows how easy it is, when feeling runs high on any question, for anyone who wants to strengthen his side of the case

## Let Well Enough Alone.

Editor "The Farmer's Advocate - that we do not Is it not strange, Mr. Editor, that we do not posed reciprocity agreement by your correspondent, of Mr. Scratch, referred to by your correspondent, the
Thomas McMillan, and was impressed with Thomas McMill Scratch is a serious-minded, logical analyzer of the situation, and not affected with the well-known weakness which seemely, to make oneself believe whatever we require it is right for us to have ; or, in other words, Thomas Atcmal lan seems to be a good example of the individual
who loves to be kind to himself and his own who loves to
opinions. It seems quite natural for your readers to Although, Mr. Editor, I have always enjoyed reading your editorial items, your stand on this issue is such that I could not endorse. In your Advantage in Reciprocal Trade," states: "Hasten the day of world-wide reciprocity." This would guide me in guessing the evident direction of McMillan does not altogether reveal to your readers, in your issue of
March 23rd, his dominant desire; but, in
turning up another turning up another gentleman,
that he has a habite instead of speaking for himself, to as-
sume to hold a brief from farmers-a broad constituency, and pro-
claims that there is fight on between those engaged and those who follow the pursuit or agriculture. Rather much more amusing serious and modest eflections.
However However, we do
ot all possess a Mc Millan vision, by which we can see the
ultimate results--good or bad-from the
adoption of this
big adoptional legislative
nation
trade enactment estrade enactment, es-
pecially one which is pecially one which is
not directed by neces-

He also states that Canadian wheat will be sity, which many farners fear wour country. Theremilled in the States, instead of Canada, farmer fore, is it not reasonable to say that, because ported ose the wheat by-products. What I would this proposed agreement warded as speculative and
will
like to know is how he can lose them any more necessity, it should be regar it it at a time when we nt duty on Canadian wheat is 15 cents per bushel, and Canadian wheat can be ground in the United States mills in bond under the present tariff law, and when the fen
is exported they get a rebate of 99 per cent. which leaves an actual duty of considerably less than one cent per bushel. Why will the Canadian farmer lose the by-product any semore tariff. He new tariff than under the present tarifl.
further states that the vegetable and fruit growers will certainly be hurt. The growers of hot house vegetables may be hurt to some extent, but
that is no shame; while the fruit-growers are althat is no shame; while the fruit-growers are al ready asheemed of a
a few wo and many are now awaiting
en reciprocity. all our imports last year from the favored nations, there was not included any of the natural
products mentioned in the agreement, except. products mentioned in the agreement, except
tropical fruits. In conclusion, I would like to
say that, if canarla should get stuck it is onl an agreement, and not a treaty, and, therefore, can be abandoned at any time.
JoHN SCHNAERINGER. IIn the above letter, the argument is put up
that, because the United States imported cheese that, because the United States imported cheese
and butter from Canada last season, therefore and butter from Canada ast season, therefore
there camnot he a slut of these proflucts there at
re enjoying a full measure of prosperity. Mr Scratcl pointed out, from the viewpoinc this country have a better home market than the American breeder possesses. He claimed that was unwise to open said market to Mre inllan, in criticising, says : It simply means that our vestern farmers will be able then toe get better border," or, in other words, the price of horses erses histerner will be lowered. He then re had the American market for beef during the last year, he would have netted an additional $\$ 1,000$ on what he sold. Note: When it strikes home, esed on beef like our Western home market on horses-a very accommodating reasoner. It seems oo me there is a great deal of wild speculation as such happen. ." Theory cannot be successfully substituted for ractical experience." The American nation did
not follow the free-trade example set by Britain early in the nineteenth century, but started out
to build up their country in their own way, acco build up their country in their own way, ac-
cording to their own requirements; protected their industries from the invasion of others, and, as a
result, they possess tollay a home makket which
J. H. Gpisdale Appointed Directo of the Dominion Experimental rarms The retirement of Dr. Wm. Saunders from the
Directorship of the Dominion Experimental Farms Branch of the Federal Department of Agriculture has opened a way for the well-earned promotion
of J. H. Grisdale, Dominion Agriculturist. Mr. Grisdale, son of Albert B. Grisdale, was
born on a farm at St. Marthe, Que., near the
Who succeeds
H. Grisdale, B. Agr., Saunders as Director Dominion F.x-
perimental Farms.
educated at Vankleek Hill School; Albert College,
Belleville: Toronto University; Ontario Agriculeducated
Belleville;
oronto University; Ontario Agricul-
where he won a gold medal and tural Coliege, where he won a gold medal and
first-class honors; and at the Iowa Agricultural
In College, where he was also an honor man. In
various ways he earned his own education. At various ways he earned his own education. At
the Trans-Mississippi Exhibition, in 1898, he won the Trans-Mississippi Exhibition, in 1898, he won
a $\$ 125$ prize in stock-judging, and early in 1899
he was arpointed Agriculturist and Live-stock he was afpointed at the Central Experimental Farm, Oltawa. Last year he was given well-de-
served status as Dominion Agriculturist. His served status as Dominion Agricultated his ca-
twelve years service has demonstrater


Barton, B. S. A. it for larger service and greater responsith
discernment of the needs of Canadian
Well versed in the French, as well as the anguage, he is peculiarly fitted to greet eanguage, he is peum. Just coming to th le of of life, he brings courage and the invi, rated mental ibre tasks. His incisive letter .... the farm work of the season in "'The Farmer's Advocate" for March 16 th expresses the gos he
teaches and the gospel he lives as a working iarmer. Canadian agriculture is now in the dawning of a new day, in the making of which Prof. Grisdale will assuredt play an enthusiastic optimist. who
tial part. He is an ent tial part. He is an enthusiastic optimist. Who
will aim to serve, as well as direct. His work
anmen ment has been commended before in these columns, and
the Minister of Agriculture is to be congratulated the Minister of Agriculture is to be congratulated
upou the choice of one who can so ably assume upou the choice down by Dr. Saunders. Promotion is a sound principle in the public service, and the farmers and stockmen of the
leartily approve this appointment.

## Unfair Taxation.

Editor "The Farmer's Advocate": In your columns I wish to agitate the question ie taxation on ince, I think it is not proper to
In the first placrenents on the farm, unless the
assess our improvene Rssess our improvenents on old farms behind the times, or to favor those who own the buildings to
lands from which they have sold the escape assessment.
The section in which I live is, without a
doubt, second to none in this grand old Domindoubt, second to none in this same belt are hundreds ion, and that are in the same state as the Creator left it, but minus the veryower, much of this it formerly possessed. However, much of this
land contains a lot of valuable timber, the owners of which would not. take the price of improved
of it increases in value year by land for it; yet it increases in value year by
year but the assessment does not grow. year, but the assessment does not grasture lands,
Then, again, in regard to large past Then, again, in regard to large pasting assess-
tormed as not cleared land, thus escaping ment, those same land-owners are making penty money, yet they have no risk of loss of buildings,
mand no insurance to keep up nor taxes to pay on improvements. I have twenty-five acres of slash land, and I
think it is worth as much to me as if it were think it is worth as much to me as if it were
cleared. Therefore, I say, with all sincerity, that cleared. Therefore, I say, with all sincerred, with
all land, whether bush, slash, or cleared, equal "erertility," should be assessed equally, and improvenents ol

## Reforestration by Counties

In the Ontario Legislature, $\begin{gathered}\text { Hon. Mr. Dufi, }\end{gathered}$ called "The Counties Reforestration Act," authorizing the municipal councils to pass by-laws (a) for acquiring by purchase, lease, or or orerwes
such land suitable for reforestration purposes (b) for planting such land, and preserving and protecting the timber thereon; (c) the management and sale, or other disposal of the timber,
(d) for the issuing of debentures providing for the (d) for the issuing of debentures providing exceeding $\$ 25,000$ in any one year. No by-law shall be finally passed under this Act until the same shal have been approved in writing by the Minister

Professor Barton.
Advices from Macdonald College state that it has been decided to recommend to
Governors at McGill University the promotion of H. Barton from the rank of Associate Professor to that of Professor of Animal Husbandry to sucfaculty of Agriculture in that institution, to suc-
ceed Professor H. S. Arkell, who resigned in 1910 ceed Professor H. St Arkel, who resign Live-stock Branch, at Ottawa. Professor Barton is a native
Valta of Vankleek Hill, Prescott County, Ontal College, is a graduate of the the year 1900, receiving his
which he entered in the Associate diploma in 1902, and his degree of a lectureship under Prof. Arkell, and since the lata lectureship under Prof. Arkell, and since the the
ter's resignation has had efficient charge of the
tive-stock department. ter's resignation has
iive-stock department.

Two Granges were organized in Dufferin County
 aurd the other at Corbeton, with 17 members.



$\qquad$

$\qquad$

b
others. Canada wavered and experimented, and
finally decided to partially adopt similar meth ods, with very gratifying results, possessing now a home market which consumes 80 per cent. or travelling successfully in the direction of possess ing a better home market than our Southern neighbors, saying nothing of our old country ing and dickering. I would advise Thomas Mc Millan and the rest of his ilk, if not satisfied with our present. measure of prosperity, to trek acros
the border, and properly and honestly enjoy th

Some Conditions of the Seed Trade this Spring.
The trade in bulk seeds has now well opened and farmers are securing their stocks of red
clover, alsike, alfalfa and timothy. It is satisfactory to note that, so far as weed seeds are concerned, there is a decided improvement in their
purity, especially in the lower grades, over previous years. The general appearance of the seed is not so good as in former years, owing to their
having been so much brown, dead-looking seed in nearly all samples marketed this season. From hat is found to grow under the most favorable conditions.
Here and there a few dealers are found wh for the local retail trade, or who have complain that in their section it seemed impossible to gel merchants complain that there has been a great deal of very dirty seed offered this year. buckhorn and ragweed. In most cases bladder campion seed has been overlooked, of which ther is an increasing amount, especially in the mam that weed is widening its canstituency so fast
Only the other day I met a farmer who said he had discovered two plants on his place last season, and that he had dug them into the groums
and then put some salt on the roots, which seems to be tha only effectual method of dealing with them. He also spoke of the efficacy of salt had from time to time appeared on his farm. It is pity that more farmers are not as vigilant a
this one, who lived near wellesley, Waterloo Co In this section the farmers are alive, as they are
in most parts, to that well-known weed, wild in most parts, to that well-known wecd, Toronto firm had lost an order from him this year of $\$ 1,000$ or more of seed, because in some
oi his best grades last year some yellow blossoms has been found as a result of sowing it on several farms. Farmers should be thankful that the wild mustard has a yellow blossom, and it is so easily
seen that it can be pulled. They overlook the seen that it can be pulled. They overlook the
fact that in the same seed may be very much fact that weed seeds than those of wild mustard.
worse wast
. Tust the other day I went to examine a quantity . Tust the other day I went to examine a quantity
of red clover seed about which some complaint of red clover seed about which some complaint of it. He thought it was very impure with buck-
horn. It turned out that it was seed about as horn. It turned out that it was seed about as
free fron weed seeds of all kinds as you could
and some brown, shrunken seeds of clover for buck-
contrast with that another lot was horn. Contrast with that another lot I was
called to examine, where a farmer was handling some seed for a friend, for which the dealers wouldn't pay the price asked. This seed the conmers were ordering at $\$ 8$ per bushel. The seed
contes besides considerable quantities of ribgrass or buckhorn and ragweed, about 15 per
cent., perhaps, of foxtail, or, as many farmer know it, summer grass. They were turning down
very clean seed at $\$ 9.50$ per bushel, for this seed. The excuse was. "We have these weeds already on the dearer seed was the cheaper seed in the long
run, as it, was much better selected, and quit, pure. There is still the dangerons factor
nany men will buy seed becanse it is, as suppose, cheap
Not only is it msisble for a farmer to sow his seed free from ribgrass or huckhorn, by us cheesecloth over sieves, screen doors, etc, iv
ing the cloth and sprinkling the infected seed it, when the separation is made hy the lomk has all shaken off; hat I beliese
$\qquad$
thes wrourer micht be made to do the ene


## Gardens.

The attraction that gardens have always had for poets and thinkers is
significant. The ${ }^{\text {Irst }}$ recorded history of the earth, clothed in the imagery of the primitive Orient, con-
cerns itself chiefly with events in a cerns itself chiefly with events in a
garden. "God , llinightie first parden. Garded a garden," noted Bacon in planted a garden,
his quaint essay, "Of Gardens."
is God the first garden made, and the irst city Cain,', sang Cowley, sug-
old eestively ; while Miton, grim oritan though he was, revelled in Pur languorous beauties of Eden as
conjured before him by his marvelconjured before him by his marvel-
lous fancy: Satan leaps the wall of lous fancy: Satan leaps the wall of
Eden, flies up into the tree of life, Eden, " middle up tree and highest there that grew," and perching there "like a cor
low:

Thus wes this place "Thus was this place
A happy rural seat of various view
Grove whose rich trees wept odorous gums and balm,
Others whose fruit burnished with Hung amiable (Hesperian fables tru If trae, here only), and of delicious taste.
Betwixt
Betwixt them lawns, or level downs, Grazing the tender herb, were inter Or palmy hillock; or the flowery lap Or some irriguous valley spread her
store, Flowers of all hue, and without thorn the rose
Another side, umb
caves
of cool recess, o'er which the man
Lling vine forth her purple grape, and Luxuriaut; meanwhile murmuring waters fall
Down the slope hills, dispersed, or in That to the fringed bank with myrtle crowned
Her crystal mirror holds, unite their streams.
The birds their choir apply; airs, vernal airs, smell of field and
Breathing the smen grove, attune
The trembling leaves, while universal Pan.
Knit with the Graces and the Hours, in dance,
Led on the eternal Spring.'
thinks first, perhaps, of Tennyson who found opportunity for some of
the most exquisite word-picturin our literature in " Recollections of
Arabian Nights." and arain in Arabian Nights:" and again in his
more powerful "Maud ": And lilies fair on a lawn: And lilies fair on a lawn; And thither
$\qquad$

The steep squar
scmuless bed Where the weeds that grew green from the gra

So one may pass through the
realms of poet, dramatiat, novelist, and find them all besprinkled, as with emeralds, with gardens.
Nor has this interest in gardens on tsthetic. When Colerids been wholly his young wife and baby to live in he was delighted to possess, in connection with it, a little plot of had already planted corn, cabbages and potatoes," enough, he hoped, to supply the needs of his house, and
also those of a "couple of snouted and grunting cousins," as he gaily declared; and so enamored was he of tending it that before long he wrote: Literature, though I shall never
abandon it, will always be a secabandon object with me. My poetic vanity and my political favor have been exhaled, and I would rather be an expert, self-raaintaining gardener
than a Milton, if I could not unite them both." ${ }^{\text {th }}$ Vain boast-yet, with out doubt, the writer thereof found
much pleasure and some little profit much pleasure and some cabbages, as has many another of his songful breath Kings and magnates, too, have they not been, one and all, almost
without exception, identified at one time or another with the creating or enjoying of gardens? The hanging
garden
of Babylon are even yet gardens of Babylon are even yet
wrrld-famous, although they have world-famous, been lost in chaos o ruin. Every palace in Europe has had its gardens, and among the tree
and bowers of some of them, such as those of Versailles, many of the most brilliant functions of the now gay

breathing the pure air, smelling the
fresh, damp exhalations of the earth, fresh, damp exhalations of the earth,
seeing the little brown seeds spring up in tender green, each little plant keeping, like a dutiful child, its place, has missed something of the things
that make life worth living. that make life worth living, tinuous development during the long
summer - leaves sprouting, stems summer - leaves sprouting, forming, leaves unfolding-untistles in its full beauty, a place for "Retired leisure That, in trim gardens takes his pleasure "; a place for sor drinking in the joys of the morning, for quiet rest at the close of the day. Truly, while gardens remain,
ished.

A garden is a lovesome spot,
A garden
God wot !
Rose plot,
Rose plot,
Fringed pool
Fern'd grot-
The veriest school
Of peace; and yet the fool
Contends that God is not-
Not God! in gardens! when the Nave but I have a sign ;
sure god walks in mine

## Margaret's Garden

For ten unbroken years Margaret and John had lived in the old house
at the bend of the river. "/ What a snug place," people had said, driving past in their working clothes on high in their "Sunday best " to church, in "top" buggies built all to a patsurrounded by ores was quite red chimneys showed here and there oyed the and John had quietly en cozy a nook-indeed, they had heard come to acquiescing without giving

## And so on.

 In a coign of the clifi netween low
 Walleal round with rocks as an inland
n the house; and if there were a spare moment, there was always
weeding to be done in the little vegetable garden down the lane.
True, when company came of a Sunday, there was usually a general
excursion around the house and under the trees, but no one seemed to care to stay there long. The trees were ground beneath was usually damp. and much of it moss-grown. There was no grass, partly because the sun partly because the fallen needles and most of the trees were pine did no create the sort of mould which sunIt was though nobody ever seemed to re mark it, that people fled in as shor a time from the front rooms of the house-with polite excuses about
wanting to see the cows, or the gar den; so that visitors and all usual ly finished the evening on the kitchen
step in warm weather, or in the ktitchen itself on cold or rainy days
Many enioyable evenings were spent Many eno, although Margaret often found people somewhat in the way when the time came to get tea or to
prepare for milking.
Sometimes she wrendered a little, perhaps, if people did not like her pretty little parlors, yet it did not dawn upon her that mals, and so she would look in at the pretty rooms on hot summer days, blessing the thick evergreen
shade-trees pressing close to the win dows-so close that not a vestige sunshine could steal in to fade the The first jar to this accepted order of things came when baby Ethel, lit-
tle three-year-old Ethel, fell ill and had to be brought into the front bedroom, so that mother could at". "Humph !"' sniffed the doctor, your soul, woman, this is no place strong enough to run up and down stairs-enough to do, without any "Well, what can be done?" said
distressed Margaret. "I'll have to "No you'll not, either," said the pine-tree at the window. "Tell John to cut that tree down right away," Margaret, "Is the tree of more value than Ethel?" queried the doctor, curtly. " Or you "." he interrupted. "Take
Or you
of that. It should have been
stethoscope into his little black bag,
and strode off as though he wers
angry; to know that his haste was
enough to
only due to the fact that he wished
to escape further discussion.
That night John cut down, not one
tree, but two, that stood in the way
tree, but two, that stood ind somehow
in, lighting up the gold of the big
howl of daflodils on the table by
Ethel's bed, a ray of hope seemed to
choot with it right into Margaret's
heart. "How cheerful it is." she
thought to herself. "It must be
and
the romin looks better. too." And in the
so next morning she folt alite then
he said heartily's more like the


APRIL 6, 1911
house should be flooded with it-
fooded with it, I say." Aloded, the doctor was far-seeing in his way Vithle pang of regret at the the $_{\text {garetis }}^{\text {gerice of the supposed cozinest of }}$ of her home, although he knew that
her thing would be sacrificed
for anything, would be sact he chuckled to himself as he began sorting, out a pilie of "Farmer's Advocates" that
mere neatly piled on a kitchen table were neatly piled " $\mathrm{Um}-\mathrm{m}-\mathrm{m}$ !" he thought to himself. UM-Mueer how often some people sean read a thing or hear a thing
chat's true as gospel, without any of
cor it soaking in! Um-m-m! Herre it is, February
happened to see that article." And he glanced over it.
" Ever read this article by Profes
or Hutt, on Home Gounds, Mrs


An Arch Over a Gate. Daly ?" he called out, carrying the ellow-backed journal
" Why, yes, I did," replied Mar-, garet, " but really I've forgotten-"" Ethel is sleeping," interrupted the Ethel is sleeping, interrupted the hand; then off he went again, as though in high dudgeon.
Margaret watched him through the window with a smile. "Eccentric old fellow, Dr. Smith,", she said to
herself. herself. " Wonder why he wishes me
to re-read this article. Something about that pine-tree, I'll wager.' And, as there was nothing pressing to do just then, she opened the jour "'s 'Shrubs should not be scattered
promiscuously over the lawn,' she read, amusingly. "What, about trees? ?-why, we-we really haven't
any lawn!"-as though a revelation
had come to her.


## space in front

seea out from the buildin. The view pon a more or less spacious be awn, with the planting so arranged as to hide from view any unsightly ing outlook in every the most pleassible.'
Margaret dropped the journal and looked out at the solid phalanx of in from pines that walled the house haps the little ray still quivering on the daffodils from the one open pleaded so recently accomplished spaces, for all of a sudden she picked the paper up again, and read the article throughout, with a new light, as it were, upon it.
"Why," she thought, " our place really and truly is all wrong-and we
have been priding ourselves that it have been priding ourselves ! That red barn is ugly, and we haven't even a tree on that side to hide its
ugliness !. And if those pines ugliness ! out just a little towards
were cat out
the river, there would be the most the river, there would be the most charming view imaginable !
didn't we think of that ourselves? didn't we think of that and, really, a little plot of open grass before the front would be lovely, with plenty of trees left all
about for a border ! And-oh, I about for a border ! And-oh,
must tell John all about it right away ! How stupid we are some
times, just because we get used to thimes, just because we get used that
things, and don't even dream that any improvement can be made! And any improvemen even the house ,, was getting mouldy and bacteria-y she
concluded, inventing an awful mouthconcluded, inventing an awting even
ful of syllables, and forgetting to smile at it as she looked at baby
Ethel, sleeping with a little flush on Ethel, sleeping with a little fush like a rose of childhood. To make a long story short, before
many days the smothering trees many to the house were removed, and, although Margaret said to John, when surveying the bleecut down a tree !'" she was willing for further sacrifice in the interests beauty, and strong again, she and John well and strong igain,
set to planning in good earnest. This autumn the plans will mate rialize, and you may padire the less, Eeople paress will be left so that a broad green wall will still remain by the roadside, with twinkling and alluring views of the old-fashioned An arbor covered with wild clematis will encircle the gate and permit just a glimpse of the rather irregular $i t t 1 e$
green lawn. On the side where the greew is only of flat, uninteresting fields, the driveway, bordered with
maples, will run; but towards the maples, will run; but towards the cut, so that from the living-room cut, so that the parlors will be meta-
(into which
morphosed) a splendid picture, framed

THIS HELPS THE COOK
 Prepare meals
sitting
down.
Take no
more
needless
steps.
$\begin{aligned} & \text { Have } \\ & \text { everything } \\ & \text { in easy } \\ & \text { reach. }\end{aligned}$
$\begin{aligned} & \text { Gain } \\ & \text { hours for } \\ & \text { rest and } \\ & \text { recreation. }\end{aligned}$

Economize foodstuffs.

Keep the kitchen tidy
easy.

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 justwhere everything is.

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kitchen kitchen
helper worth while.

It you attend to your own cooking, you need a Knechtel Kitchen Kabinet You need one even more if you hire a cook. For this Kabinet does much indeed to solve the "servant pr
it makes the work so much easier


The picture here merely faintly sug gests how compact how handy, how complete the Knechtel is. You must see it and examine it to know its salue to you,
and to understand these are only three of the thirty points in which n which nor
See it. why it must why it must
a few months'
sase. Be sure to have your furniture dealer show you the several styles of the
Knechtel Kitchen Kabinet. One among them is just what you have been
Booklet D mailed on request. wanting. The price will suit you too. Booklet D mailed on request. INSISTON SEEINGTHEKNECHTEL。 Knechtel Kitchen Kabinet Co., Limited, Hanover, Ont.


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 means poor Preserves.The anxiety as to whether Jams, Marmalades, Preserves and Pickles are going to keep, can be entirely dispelled by using ST. LAWRENCE GRANULATED.


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and I'll tell you what I'll do-I'll guarantee your next batch of bread

TV
WILL guarantee it to rise away up out of the pans, and make as delicious bread as you ever tasted. The loaves will be the biggest and most wholesome you ever baked with the same amount of flour. I'll guarantee it or you get back the money you paid for the flour! Now see

Just go to your grocer and buy a bag of Cream of the West Flour. Take it home and bake it up

Give it a trial.
Give it a couple of trials. Your oven or yeast might not be just right the first time.

Now when you give it a fair trial, if you honestly feel that you have not
had splendid satisfaction with Cream of the West Flour, return the unused portion of the bag and get your money back.

Just tell the store man your bread didn't come out right and you want your money back as guaranteed.

It's not the grocery man who loses It doesn't come out of his pocket. It is the Campbell Milling Company, Limited, of Toronto, who pay, and they are satisfied to pay if you'll be satisfied to try Cream of the West Flour.

Ask your store-keeper about this guarantee. He knows. He will tell you. Try a bag next baking day

## Cream or of West Flour <br> The hard wheat flour that is guaranteed for bread




$\underset{\text { Fill up holes in the }}{\text { the }}$ Clear up all old stems burn them out of the way. ©le, an
also chance to burn with may also chance to burn with them in
numerable small cocoons of injuri insects. $\underset{\text { If }}{\text { If }}$ you are arranging, your sufficient thought on it. io no
place any shrub or perenninl place any scrub or perennial in the
wrong place. By exercising care you will save your temper and caree
time and trouble at a later time and trouble at a later date.
If you have very litte If you have very little time to
spend on the flower garden, plant flow
oring shrubs, and, of course, oring shrubs, and, of course, peren
nials, which by next year shoult nials, which by next year should
make a fine showing. For immediat make a fine showing. For immediate
results, you will have to depend results, you
annuals -poppies, annual phlox, mig
nonote nonette, nasturtiums, morning glories
alyssum, candyuft, alyssum, candyturt, coreopsis, stccks
sweet peas, verbenas, etc. Mass your flowers in clumps of one
kind, as far as possible. This helps to prevent clashes of color. White white flowers every where -white lilies white candytuft, alyssum, white aqui legia, baby's breath, white asters,
etc. You will find these whit ers particularly attractive and even at night. If you value artistic effects, lawns cut into beds of won drous shape and form. Do not
plant flowers in tiles, old teakettles, old boats, iron
urns ?). savors of the bizarre, and do that place conch-shells or whitewashed
stones around beds or along borders. stones around beds or along borders.
Low bedting plants, such as feverfew or sweet alyssum, supply the ond planning your. garden, arrange
or to have the tallest flowers at the
back, graduating them towards the back, graduating them towards the
outer edge. Provide this year for
on a "backyard beautiful." to make a Encourage the children to make a
garden this year, both vegetables and flowers.
Provide
for succession of bloom in all parts of the garden. Use an-
nuals to follow the bulbs, later-sown nuals to kee up the bioom, long-
seed to keep flowering and late-flowering plants, such as fall anemone and verbenas,
to keep a dash of color until snowBe sure to sow very small seeds by simply pressing them into the ground
with a smoth with a smoch board, then water tion. Cover other seeds according to size. Do not use raw manure
anywhere where seeds or roots are any where where seeds or roots are
to be planted. Only manure or comsistency of muck is safe. If you have not already done so,
plant your sweet peas at once. plant your sweet peas at once.
Choose heavy soil, or, if the soil is light, either add stiff clay, or take great pains to make the ground be-
low and above the peas very firm. If the soil is rich, you need not respade it in spring, says an authority,
but if you must respade it for the purpose of mixing, traed it down
very firmly.
Now thollow out to very firmly $\begin{aligned} & \text { Now hollow out to } \\ & \text { about two inches in depth, and two }\end{aligned}$ two ieet wide. In this scratch two little
furrows, about eight or ten inches
not apart (the rows should run north
and south), and one inch deep for the seed. fitcr sowing, roll or tread
down firmly. After the plants come
down vines for six weeks. Kiep the theeds
down by pullinf them out or by very shallow use of the hoo, but do not
disturb the soil more than necessary disturb the soil more than necessary.
Give plenty of water, and, if necessary to use fertilizer, do not use any-
thing that is nee or hot; old well
rotted manure put in tho hottom of rotted manure, put in the bottom or
the trench (duy deeper for the pur-
not
noser pood, or rich compost. When the of wash-lay sulds for watering.
"He only is advancing, in life whose
heart is getting solter, whose blood
harmer Warmer, whose brain quicker. whose spirit
is entering into tivini peace. And the
men who have this life in them are tho




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 Think ot the foy ot Him who by His
ofroing ot Himetif tor the sins ot tho orfering of Hinselt for the sing of the tho
whole worta, dhaimed at onee hher right to
ant





 ing to His ioy by acepp ing glady unin
burdens
He onters, or are wo murting Hin by doubting His love every time we are

 onco wrote to oftenulto hat vith hill
 ds spectal favor in asking us to carry
heary burden ? heary burren?



 What right have we to behave ilike the


 not needed. We do douou this. Are we showing by the gladenes of our taces
that our hearts
tre
not that our hearts are not thoyb
araid? Can we truthull say-

$$
\begin{aligned}
& \begin{array}{l}
\text { And count it iov that even we } \\
\text { Nay surfer, serve, or wait tor Thee }
\end{array}
\end{aligned}
$$

## We gave up ito the tace of our Iaster, know nine well that He was tastened to the



 small amount of pain or trouble
shame at our cowardly faithlessness and weak fens for the past and joy for the
forgivenes
future. Let us refuse to lament over our troubles, and try to grow daily more like
Him who forgot His own agony in caring for friends and foes. Don't let us be
satisfied with the poor success of submit-
tiny because we can't help ting because we can't help ourselves.
(iod has called each of us to rejoice with the joy of the martyr-the martyr who
glady lays down his life at his Master's
feet. Our Lord may not call us to die gle our Lord may not call us to die
feet. Ous
for His sake, but He certainly accepts ea life is just as precious in His sight, it
you are ready and willing to suffer and die for Him, as the victorious death o
any of the noble army of martyrs. The Caith hul servants who had made diligent
use of the talents placed in their charge, were called to enter into their Lord's joy, in our enduring of pain or trouble, then
it is certain that our love is of very poor quality. We are called-even now-to
enter into the joy of our victorious


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Toronto.
. 5 . 6.1911
Holy wook and Easter
 vimen pexatane boxet hoomy
 As wiv beate in eneran worthees troes Lighter, lighter grows the shade Softly on the sense doth fall Strong, unseen, a Presence here
Breathing comfort over all! Splendid glows the Easter dawn, Songs triumphant swell the air All creation wakes in joy,
Earth and heaven the gladness share on: the plory ot the Morn?
 Crise hat cast tis stomen amey
Ho who in that statoon pamam
 yed on oopere fear the ome
 That toth herand in tha days Hob hat rolled the stoman anay $-A$ man

The Roundabout Club
 fument, ent con ont is $A$
 and
"Reeiprocity"-Study V .

 and holding fast to British institutions
and British connection, the land of a and British connection, the land of a
million fertile farms, of vast and verdant million fertile farms, of vast and verdant
forests, of enormous mineral wealth, of eeming fisheries and of prosperous and
frowing towns and cities, to have a re-
riprocity treaty providing to rowing towns and cities, to have a re-
iprocity treaty providing for the free exChange of natural products-a direct in-
fluence upon trade, a decided step fuence upon trade, a decided step towards
ree trade, and something that will tend Iree trade, and something that will tend
towards closer social union with the United Stateser, a nation union of our own the the
nd of our own language and and of our own language and customs, a
and of comparatively exhausted natural
 Pesources
Population, and
and population, which will shortly be de
pendent for its sustenance upon imported
lood? Such is the

 Wide Dominion, are at the present mo-
ment giving their best thought, and upon mhich I will here venture my humble,
mient
though sincere, opinion. Chough sincere, opinion.
Firstly, with regard to the effect such a
treaty would have upon industrial treaty would have to upon industrial con con
ditions here: Canada, as we know, is a
large producer of natural products, so ditions here: Canada, as we know, is a
large producer oo natural products, so
that, after supplying home consumption, she has been enabled to build up a larg
export trade in them. This trade in the export trade in them. This trade in the
past has been largely with far-off Europe
ns the high tariff wall between her and as the high tariff wall between her and Mer neighbor to the south has for long
held her back from enjoying the higher rices there prevailing. But should thi
ail be removed to the extent of allow-
tree exchange
 adian producers of natural products,
hich class constitutes a very largucts,
ion of the pepulation, wir


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grain is filled with vines or green undergrowth. There are many other features and advantages of McCormick binders. The McCormick agent will tell you about them. He will tell you about the wonderful strength of each individual part and of and the binder as a whe of the cont see him today? Ask him about McCormick haying machines and tools.

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A Curse on Them. Rather attempt something worthy of you empty thoughts and vain occupations and good many people think that because the
$\qquad$
$\qquad$ generations. If you are doing nothing
for others, you are a curse to yours as spiritual stagnancy. Get out of this
condition of do nothing-ness if it is only
to do something with cotor enongh to nothing, elther good or bad, is to he a


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 onder
and
and
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$\qquad$ hasout
hast it
Be war
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machion


SEEID CORN That we can and do gUaranter


 They soon grow matlorr, Blemeim, ont In marts where all is bought and sold; Who mive for self, and on some shelf
Tn darkened vaults hoard up their In darkened vaults hoard up their pelf;
Cankered and crusted o'er with mould, Cankered and
For them the

## CUIEE THE WIFE

## ANO HUSAAM. TOO

Great Work done by Dodd's Kidney Pills in one Quebec Family.

Thomas Laurlault had Kidney Disease and his wife Bright's Disease, and Dodd's Kidney Pills made them

Lac Cayamont, Que., April 3.-(Spe
ial.)-There is a world interest in the simple story of Madame Thomas Lauriault of this place. In her own words, it is
as follows : "Dodd's Kidney Pills cured my husband Of Kidney Disease, and myself of
Bright's Disease. We recommend Dodd's Kidney Pills to all who suffer from Kidney or Bright's Disease."
This is a splendid example of the grand work Dodd's Kidney Pills are doing
among the plain people of Canada. Kid. among the plain people of Canada. Kid-
ney Disease is the commonest of all ailney Disease is the commonest of all ail-
ments among those who have to work
hard, because the kidneys are the first hard, because the kidneys are the first
part of the body to feel the wear and tear of heavy work.
When the kidneys
goes
goes wrong, and the wrong, the blood
wrong. Rheumatism, Dody (ropsy, Does Diabetes
and Bright's Disease are the , arong. Rheumatism, Dropsy, Dianhet
and Bright's Disease are the usual r
sults. Dodd's Kidney Pills cure these
simply

The Garden of a com muter's Wife.
(By Mabel Oggood Wright.) CHAPTER XII.-Continued.
iew days ago a flagman on the branch railway hat runs norrn-west drom tiln of a train. Father saw at once that he could live but a few
hours, and that freedom from pain was al that he could give him. He aske the man ise, any little matter that he would like adjusted. stunned, and did not answer. Then he said: There's nobody else that, 11 care. He's my dog. I guess you'll find him in
my flag-house behind the coal-box.
 Will, chought en this with a wistuul
glanc, while a big tear rolled down
ia cheelk his cheek.
In half an hour or so the dog was brought, a sombre creature, bigg and
woolly, looking like a hupe Sky terlicked the poor man's hand, and crouched close to him. h . he g almost four years old He was a freight car ' left tover' when I got him as a pup. He'd be good
company to you if you happen to need a dog, and he don't eat much
Else perhaps you'd give him some Elise perhaps yo drug, you know. He's too retiring to make out foragin' 'or
himself, and he aint got any friends but me. His, looks was always up ${ }^{\text {aga, } 1 \text { I have tive dogs already," said }}$ father, " but I will take him. ${ }^{\text {ane }}$, No
faithful dog is ill-looking to one." So he arrived, sitting solemnly by
 sheep-dog, and well bred
Strange to say, he has attached himself to Tim, after fretting for a time and seeming ill at ease with so much space to walk about in, and Tim, who only tolerates dogs in grudging sort of way, evidently re- reat
turns the feeling.
To-day, hearing conversation in the stable, I though
Bertle was there with Tim, but found only The Orphan leaning against Tim's knees and licking his fingers that were feeding him scraps of meat,
while Tim looked positively pleasant. one loves. To much matter what March 26. To-day I found henativ fas on the wood-edre and the tin white violets that bloom almost be-
fore the leaves uncurl are perfuming a dozen sun spots in the garden. It
is not often that wild and garden flowers may be combined and keep
their attributes, but these monize perfectly, and these two harthe elusive spirit of early spring. planted my sweet peas, a pound's
weight, in a long double row in the


The first pound you use will win your lasting
favor
"More bread
and better
bread'

## ROYAL BRAND FARM FENCING <br> SOLD DIRECT TO THE FARMER

THE SARNIA FENCE COMPANY, SARNIA, ONT.
ROYAL BRAND FENCE, made by the SARNIA FENCE CO., is the most talked-or sence on the Canad market to-day. Why ? Because it is the best fence made me mell to agent or dealer. We have but one price and one policy to all. Naturally the agent just as cheap as we
objects to us publishing our prices to the farmer, as it deprives him of commissions and profits, and ho purchase from statements regarding quality which are unjustified and absolutely untrue. His object is ${ }^{\text {g }}$, Every coil of wire we him a fence on which he can make a commission. Agents say our wite must gauge No. ory the Government gauge or they will not and
use is inspected by the Canadian Customs, and it mit it to Canada. Another claim of inferior galvanizing is made. Our answer is, for wire which will stand four
any wire used in Canada. One of the largest railroads, "whose oneminute dips in acid," asked for bids for 500 miles of fence. Every fence manuacrurer not stand a four-dip test. a special quality of galvanizing to meet this test, as the wire he furnishes the
We sent a sample of ROYAL BRAND WRE, the same as we send to the farmer in his fence. This sample was tested both as to strength and quality of galvanizing by the railroad chemist, who pronounced our regular wire equal in quality to make and test both in acid, and prove the superiority of our galvanizing. This is a fight between the Canadian fence combine and the Sarnia Fence Company. We are receiving the support of every farmers' organization, as will
ns the individual farmer all over the Dominion. The demand for ROYAL BRAND FENCE is increasing so rapidly that we have been obliged to build a new plant, and now have the largest capacity of any plant in Canada. The Sarnia Fence Co. are the only knot-fence manufacturers in thatad
formed for the purpose of increasing the price of fence to the farmer pay more than our printed price for all No. 9 fence. If you do, you are being taken advantage of. Our guarantee will protect you. YoUr MoNex
If BACK IF YOU ARE NOT SATISFIED. DON doubt about our reliability, write to the editor of this paper, and ask him if we make good our statements or not. We furnish a combination hoist and stretcher, complete with one ratchet, made of malleable iron, 88 feet of chain, patent hardwood clamp, for $\$ 4.50$, or with two can eht for $\$ 7.50$. Freight prepald

| 6-40-0-has 6 line wires, 40 in . high, 22 in. apart. All No. 9 hard steel wire. Spacing 7, 7, 8, 9, 9. Price per rod | $211_{2}^{1} G$ | 8-48-8 line wires, 48 in . high, stays 16 in. apart. All No. 9 hard steel wire. Spacing 4, 5, 6, 7, 8, 9, 9. Price per 306. rod |
| :---: | :---: | :---: |
| 7-40-0-7 line wires, 40 in . high, stays 22 in. apart. All No. 9 hard steel wire. Spacing 3, 6, 6, 7, 7支, 8, 8\%. Price per rod | $246$ | 9-48-0-9 line wires, 48 in . high, stays 22 in apart. All No. 9 steel wire. Spacing 3, 4, 5, 5, 6, 8, 8, 9. Price per rod.. |
| $8-40-8$ line wires, 40 in . high, stays $16 \frac{1}{2}$ in. apart. All No. 9 hard steel wire. Spacing 3, 4, 5, 6, 7, 8. Price per rod | 29c. |  |
| 7-48-0-7 line wires, 48 in . high, stays 22 in. apart. All No. 9 hard steel wire Spacing 5, 6, 7, 9, 10, 11. Price per rod. |  | 10-50-10 line wires, 50 in . high, stays $16 \frac{1}{2}$. apart. All No. 9 hard steel wire. Spacing 3, 3k, 3ł, 44, 5i, 6, 8, 8, 8 . |

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——Con min








BUFF ORPINGTONS Exclusivgly por io years
Egss That Will Hatch

Hugh A. Scott, Caledonla, Ont.


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## P


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 Pleasant Valley Farms eggs for hatching.

 S. G. HANSONS STANDARD WHITE LEGHORNS
The breeding hens for the season 1911
re part of the flock of 402 pullets which in January, February and March estab-
lished a record for flocks of that size, by laying 23,532 eggs. The cockerels heading
the breeding pens are bred from trapnested hens, with individual records in their pullet year of 200 eggs and ove
Birds from these matings must give exceptiona for hatching eggs well in advance if you want early-laying pullets.

EGGS FOR HATCHING
March and April- $\$ 3.00$ per 15; $\$ 15.00$
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Prices of day-old chicks on application
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 | $\begin{array}{l}\text { ported bor the and literature. state } \\ \text { for intornati, } \\ \text { of Immigration, Montgomers. Alabama. }\end{array}$ |
| :--- |
| Y XPERIENCED married man hy the year. |






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\mathbf{F}^{\text {ARMS FOR }} \text { SALE-Three-quarter bection }
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THE ENERGY FOOD
The Vim and Vitality One Geti From Oatt

 what oats do tor horrees. They have the


 itm and spitt-are sand it fineit oats-Canan
 Juat the rich, plump graine are used. in ${ }^{\text {Theneshal }}$ b have the maximum of richneses and eneryy. They are alioo the most
 day for a montw will how to the imity
what tonic effects, what bubbing vitalty one can get from oatmal. ond heorer
nows how good oat tood is, or what it tan do, untill he tries ouaker oats
Advance Notice of Sales f english pedigree LINCOLN

## RED SHORTHORNS

## Longwool Sheep,1911

 ril 27 th.-Annual Amalgamation Saleof Registered Lincoln Red Shorthorn Choice Bulls, on the Fair Grounds, aly 6th.-Annual Sale of Mr. Hy. Dudding's world - famous RIBY LONG
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Louth, Grimsby \& Brigs, England Imported Parcheron Stallion

FOR SALE: Imported James, black,
weight about i, roo bos. Has travelled six
years on same route; has proved to be an
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Prices as quoted in last week's issue of this paper, on page 559, are still good.
Our "Sun" Bpand Red Clover is that beautiful pure blue berried seeci that Our "Sun" Brand Red Clover seds and then cleaned again. We still have some O. A. Ci No. 21 Barley on hand. Send in your order before it all goes.

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6. Perfectly harmless.
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9. Increases supply of milk. stable, henhouses, etc., prevents
roup and hen cholera, and arrests roup and hen cholera, and arrests
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The general satisfaction cows
will manifest when freed from the annoyance of flies. The increase in the amount of
milk they will give. milk they will give.
The comfort and ease in milking. The hen get busy at her nest to lay the golden winter egg.
The absence of hair-lick on the cows' sides.
The healthy condition of your porkers' epidermis.
Be progressive and use DR. WILLIAMS' FLY and INSECT DESTROYER. We guarantee it
to do all that we claim for it. If no satisfied, we want to hear from yo
The Three Grandest Disinfectants: 1. Sunshine 2. Air; 3. Dr. Williams' Fly and Insect Destroyer.

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highways of Canada and in Foreign Countries, and every foot of it is giving good service,
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ALL NO. 9 WIRE FOLL GAUGE
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 shipped to P. M. Bredt \& Sons, ede lot
wold, Saskatchewan, a really grand lot
of Clydesdole mares of Clydesdale mares and one Shetland
Pony. In the lot are five imported from
Pmith Scotland, one of which came from Smith
\& Richardson, a beautiful filly rising \& Richardson, a beautiful from Graham
three, and in foal. Another from \& heee, and in toal Ahew, one of their best show mares.
A grand big and good mare from John A grand big and good mare from John
A. Boag, sired by Everlasting, dam by A. Boag, sired by Everlasting, dam by
Sir Thomas, grandam by Darnley, a great mare, with, great breeding, both for qual-
ity and size. Ancther good big mare from C. $\Lambda$ Brodie, and still another from
myself myself. AI above are imported. There
were also tour bred from imported stock on both sides, and seven registered mares
besides, with grand quality and breeding besides, with grand quality and breeding,
many of thern in foal to the best horses many of then in foal to the best horses
in the district, all but one old enough to
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never put a nicer and more valuable lot
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The Canada Producer \& Gas Engine Co., Limited, Barrie, Ont. reliable agents wanted.

the cheapest good roof is one that paibiby poo meyy thak nood is so thoroughly locked to- the worst sense. Only metal gether, unit by unit, that the yourso And any metal shingle is budge; the heaviest rainstorm budge; the heaviest rainstorm cannot penetrate; the severest lightning cannot harm. And

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until they have thorou.ghly investigated them. Some do not realize how easy' th roofing that needs no painting. All that is necessary to do is to write to the manufacturers of Amatte rooing, aski by for a free sample. invives no obligation
return mail, and whatever on the part of the inquirer. Amatite has a mineral surface consisting
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plastic matrix of pitch. Address a postal plastic matrix of pee sample of Amatite to
request for a fres the nearest office of the manufacturers, The Paterson Manufacturing Company Limited, Montreal, Toronto, Winnipeg,
Vancouver, St. John, N.B., Halifax, N.s.

GOSSIP
Maple Lodge, Ont writes: The young Shorthorn bulls I am ofrering for sale are both rich roan color, and large, smooth - Reshod, the bodied fellows, and bred from good mik ers, one a son of a Mysie bull, and the the a mis Mamdon Whe Imp. Knuckle Duster. One of the your of the old Isabella family.

James Douglas, of Willow Bank Stock Farm, Caledonia, Ont., in his advertisoment of Shorthorns, calls attention to his offer of his imported bult
ing, and writes: "While he is getting up in years, he is just as fresh and active as ever; sure, and very quilet. He is
right every way as far as I know, and right every way as far as I know, and
his calves, like himsell, are so very smooth-fleshed and good feeders-conse quently good sellers. They are growthy, yet smooth, and always look good, and
can be seen at varlous ages, along with can be seen at varlous ages, along with
the bull, at my farm. My stock are looking excellent, and sales have been
good, thanks to 'The' Farmer's Advocate' for bringing me a good share of

618
Was Troubled With

## Liver

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Miltumps Larb-Liver Pill will repr to bowlat, and will toope, renovate and ourifive the liver, remoring every reaul Algreab boub headenhe to tho severeat
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actual experience. The local dealer will give you the names of some owners near you. Learn fron them why most durable, easiest to clean, and easiest running Celtic: I have received a telegram informing me that the Spring Show at
Ormstown will be held on May 23rd to 25th. Please make my sale date of imported Clydesdale
May 24th, at 2 p. m., instead of May
18th, as previously published. Wm. Thorn, Lynedoch, Ont., writes: My
Ayrshires have come through in fine condition; cows are milking heav-
ily. have a number of very choice cows and heifers for sale, some milking and some to freshen this spring. I have young
cows mirking nearly 50 lbs. per day, and
testing 57 buteref. testing 5.7 butter-fat; two-year-old heilers testing as high as 5.5 . I am making a
specialty of Record-ot-Performance work specialty of Record-ot-Performance work
I still have one choice, large young bull
for sale, which should
 several large pure White Wyandotte cock-
erels, at $\$ 2$ each.
 gal, Ont., Woodburn Mina and Maggie
Earl 4th, both having heifer calves at
loot. Root, to $\AA$. Hamilton, of Fingal, the
promising bull calf, Mina Prince. I still
have a roan bull call of the Benuly
 ably, right away. Mr. Gardhouse used
this calf at the Special Judging Course
at Dutton, February 28 th, in demonstrat
ing the desirable pointe of ing the desirable points of a beef animal
and described him as an individual of the and descri
first rank.


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 D. DUNCAN \& SON, DON, ONT, For Sale: Reg. Clydesdale Stallion


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 2 Takes the strala ofr the owcep, puta 7 hive Rope Guidee, edjurtable


 This is the only Maohine in which ovory oasting is warranted for one year, FLAW OR NO FLAW. Try this Maehing undor our Guaran
that it far EXCELS any othor $\rightarrow$ you pay nothing. Hundrods of your that it far EXCELS any othormor you payy nothroved this Maohine. So will you onoe you try it.

REMEMBER YOU RISK NOTHING If you have land to cloar of otumpen, etanding trees or willown, standing or burnt over, or poplara, or scrub or any kina, cha it work. For it ham want, and tho only Stump Puller should have, not merely one or two. We ask you just to tost it for yourself undor sur most ponit woll clear your land It will de the work better, oscier, on this earth. Isn't that plain?

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"RED CROSS" CLOSETS Made especially to the requirements where no
sewerage is availatlo Red Cross Sanltary Appliance Co, , Grimshy, Ont.

OUESTIONS AND ANSWERS
QUESTIONS AND ANS
Miscellaneous. HORSE DEAL A buys a horse from. B. B does no
guarantee the animal. A is his ow judge. A, having the horse for a short
time, finds the animal not as good as he thought. Can A, by right of law, com-
pel B to take the horse back and refund pel B to take the horse back and refund
money ? Ans.-From the statement of case sub-
mitted, it does not appear that A ha any right to dema
SEEDING HILLSIDES. I have five acres of hilly land, and last
year $I$ sowed it with clover and oats as year I sowed it with clover and oats as
a cover crop. The clover came up well,
but by the time the oats were harveted but by the time the oats were harvested
it had dried up and disappeared. I am particularly anxious to put this piece into
grass of some sort this year, and, not grass of some sort
having suffient manure to cover it, would
ask if clover or grass would grow it having sumcent or grass would grow if it
ask if clover or or
seeded alone?
Thanking you in anticipation.
Ans.-Clover and grass would grow, at
least least as well, if seeded alone. Beyond
keeping down weeds, our so-called nurse
crops are usually more of a hindrance crops are usually more of a hindrance
than help to clover seeding. The probthan help to clou, that a light nurse
ability is, though,
crop of barley, say five pecks per acre, would be proftable, giving some return
from the land. By the way, why not from the land. By the way, why not
try alfalfa? Your field would seem to try alfalfa? Your field would seem to
be well adapted for it. Alfalfa makes be well adapted or hillsides. Seed with
gold mines out of
a bushel of barley per acre. a bushel orerry culture. 1. We have about three acres of low-
lying land, well drained.
The soil is
Tham. Would gravelly, mixed with clay loam.
cherry trees do well on this soil ?

## 3. Is there a kind does not attack?


$\qquad$ Ans.-1. It well drained, cherries should
do well on the soil you describe.
2 .The Morello, or sour varieties, are 2. The Morello, or sour varieties, are
hardier than the sweet cherries, and les sumceptible to rot, and the market de-
mand is excellent for both. The Board
mar mand is excellent for both. The Board
of Control of the Ontario Fruit Experi-
ment Stations, recommend the following ment Stations, recommend the following
general list of varieties:
Orel 25 , Orel general hist of varieties.
24, Richmond, Montmorency and Russia
207 . 3. Black knot is easily kept in check by spraying, together with cutting and
burnimg all knots as soon as discovered.
4. From eighteen to twenty feet for 4. From eighteen to twenty feet for
sour cherries, and about 25 for sweet

FLOORING FOR HENHOUSE CEDAR FOR STAVE SILO-
HAY RACK.

$$
\begin{aligned}
& \text { 1. Is cement flooring in the henhouse } \\
& \text { as good as, or better than earth or }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 1. Is ocemen or better than earth o } \\
& \text { as goo } \\
& \text { lumber ? }
\end{aligned}
$$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ ground surrounding. Most henhouses hav
earth floors. A kind of floor much re
ommended to made of a layer of lar ommended is made of a layer of large
omones, six inches in depth, then smaller stones, six inches in depth, then smaller
stones three inches, this covered with
gravel, and finished with a layer of coarse sand. Such a floor is dry, and supposed
to be rat proof. A cement floor, deeply
covered with earth, removed once a year, covered with earth, removed once a year,
is also good. of course, whatever the
floor, it should be kept well littered. $\left\{\begin{array}{l}\text { 2. Cedar lumber such as described, } \\ \text { should answer very well for silo. } \\ \text { 3. Probably some reader will describe }\end{array}\right.$ 3. Probably some reader will describ
such a rack that he may have in use. TRADE TOPIC.



All "asphalt roofing" is not Trinidad Lake Asphalt Roof-ing-there's a great big difference. Look out for that when you buy your roofing. Ordinary so-called asphalt roofings are made of artificial products masquerading as real asphalt. They are nothing more than the residue from petroleum orl or na-
tive bitumens made into a black pitch, which is easily affected by

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with nailleake, and gives the roof an sith finish. Ask your deale thr Genasco with Kan
leak Kleets packed in the ollt. (0) 11 The Barber Asphal The Barber Asphal
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QUESTIONS AND ANSWERS Miscellaneous.

ROOT-HOUSE OF CEDAR
BLOCKS
I intend building a root-house this summer, and want one that will keep the
frost out. I was thinking of building frost out. I was thinking of building
one with cedar blocks, cut two feet long, laid in a cement foundation, and built up
with those blocks in mortar. Have heard with those blocks in mortar. Have heard
of a barn foundation built in this way. I would like to hear, through the columns
of "The Farmer's Advocate," whether this
or would be a good, serviceable root-house, or could you advise something better?
A NEW SUBSCRIBER. Ans.-If you have the timber, and can
afford it, the plan you suggest of making root-house of cedar blocks, could scarcely be im
judge.

## LYMPHANGITIS

I have a mare which has been working regularly. About three weeks ago her
tront legs swelled, from above the knees front legs swelled, from above the knees
to the hoof-heads. This swelling has all disappeared, except that the inside of one disappeared, except that the inside ore one
leg remains swelled and hard. She leg remains swenc of lameness. What
showed no signs of
caused this swelling? Will it all disapcaused this swelling? Will it all disap-
pear? One of our learned men calls this pear ? One of our learned
lymphangitis. Is he right?
Ans.-Your learned man was in all like
lihood right. The symptoms point to lihood right. The symptoms point to lymphangitis as the trouble. An attack
an of this disease is usually ushered in by a
chill, followed by a rise in temperature, chil, some uneasiness. The swelled limb
and
or limbs, are tender to the touch. or limbs, are tender
these symptoms you say nothing, and, these symptoms you say nothing, and
therefore, there is some reason for doubt Light feeding, regular exercise, hand-rubbing, and 1 dram iodide of potassium twic tion of 1 dram daily, are recommended for such a case a we suppose yours to be. It is very sel
dom that all the swelling leaves the leg
dom This disease usually attacks well-fed an mals,
morn

## $\underset{\substack{\text { mor } \\ \text { velo }}}{ }$

Can I raise a call by hand from the
time of its birth on skim milk ? How
much milk should it have at one feed
What could I put in milk, hay tea What could put if it would b
anything like oatmeal? If of at an teed
all right, how much of each at one fer all
ing
An Ans.-Some accounts of different cals
feeding methods have appeared in ""The feeding methods have appeared Lools them
Farmer's Advocate" lately. Look up. A call should be fed whole mill for
at least one week, and, after that, the
the change to skim millk ought to be made
gradually. The most common mistake in gradualy. Me moter calves is in giving
feeding skim milk to
too much, and causing scours. About too much, and causing scours. Abourt
three quarts each feed is enough to start With, increasing to four quarts later. Be
very careful about having millk at blood very carra keap feeding pail clean. To
heat, and
supplement milk, there is nothing better supplement mall handful of ground flaxseed,
than a small than a smail ham water until jellied, and
simmered in warm
Good calves can added at each feeding.
be raised without this

$\qquad$ shows reluantity increased according to
and the qual
the appetite of the animal. If there i
in

SHOW

## Clydesdale Fillies <br> BY AUCTIOIN



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Thursday, April 13th, 1911 MESSRS. T. D. ELLIOTT \& R. R. KENNELL, of Botton, Ont., will sell
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J. McALISTER, Shelburn


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mill feed The only calf meal manufactured in an exclusive Calf Meal Factory STEELE, BRICGS SEED OO., LTD., TORONTO, ONT

## QUESTIONS AND ANSWERS

 Miscellaneous.NITRO-CULTURE I have a hillside which I am going to
seed to alfalfa this spring, the hill being clay, with about one acre of sand on top, clay, with about one acre of sand on top,
in fair condition, and free of gress. Do you think it would be necessary to use
the nitro-culture on the seed? If it was not necessary, would it do the seed any harm, in any way? What is lacking in the soil that it needs this nitro-col
What does it do to the seed? Ans-See article (Prese Clover. Ans.-See article (Press notice) sent out ment, Ontario Agricultural College, Guelph, on the subject of nitro-culture.
Treatment of seed with nitro-culture can do no harm, and is a wise precaution, if grown on your farm to any extent in reCARE OF SHEEP AND LAMBS. 1 am going into the sheep industry, and I have about eight acres of old pasture
land. It is clear of stumps, and is very badly in need of drainage. After it is
well drained, how should I go about it to get better pasture? There is a great
deal of water-grass in the low land, and deal of water-grass in the low land, and
the pasture is poor.

1. How should I crop it to get best results?
2. What crop should I sow before seeding it ?
3. What is the best pasture for sheep ? 3. What is the best pasture for sheep
4. Wilfalfa stand to be used as sheep pasture ?
5. 

I have ten ewes, and they are to lamb about April 15th. It is my first
year with sheep. What should I feed the year with sheep.
ewes atter they come in, and what care
should I give the lambs until they are should I give the lambs until they ar
about a week old?
RECENT SUBSCRIBER. Ans.-1, 2 and 3. Why not let the grass that comes in naturally grow after
land is drained? There is no better pas ture for sheep than the native grasses on 4. Alfalfa would be ruined by being pastured by sheep. They nip too close.
5. The ewees should be fed, in addition 5. The ewes should be fed, in addition
to good clover hay, at least a quart each of oats daily in two feeds, mixed with
the the same bulk of bran. If you have tur-
nips or mangels, a liberal pood of the nips or mangels, a liberal feed of these
will also be helpful. If the lambs are strong enough to get up and suck, they
will need no extra care. If weak, and not able to stand, they should be held
up, and some milk drawn into the
und up, and some milk drawn into the
mouth, when they will probably take to helping themselves
PLUM TREES NOT BEARING. 1. We have about three acres of an
rchard which was pruned two years orchard which was pruned two years ago.
Up to that time the orchard had not been pruned or taken carce of for years,
and was almost in a wild sta farm has been rented for so long. orchard needs pruning again, and would
like to have someone do it who understands the business, as I have not time
to look after the orchard this to look alter the orchard this year.
Where could we get a man to prune the
trees ? (rces Have a few plum trees which blos-
2. He every year, but never grow any
com ever som every year, but never grow any
plums. The trees are about six years
old, and have grown very high and branchy. Why do they not bear fruit?
3. Will carrots and mangels grow well 3. Will carrots and mangels grow well
sod which was plowed last
incerne or what is considered the best for arots what is considered the best for
roots on clay land? $\begin{aligned} & \text { H. W. B. }\end{aligned}$ (ns.-1. If you Ans.-1. If you cannot secure a good
acal man to prune your orchard, why ocal man to prune your orchard, why Wants and For Sale column.
2. A variety of possible causes might be A variety of possible causes might
be suggested, among which are selfsterility, and the ravages of the plum
Turculio. The latter insect causes the
truit to drop after it is set it may be truit to drop after it is set. It may be
controlled fairly well by cultivation and
solfspraying. See Spray Calendar. Self-
sterility may be due to any one sterility may be due to any one of several
cases. (a) Defective pistils; (b) in-
culficient pollen: (c) difference in time of
cult vulficient pollen; (c) difference in time of
maturity between the stigma and the pollon, and (d) impotency of pollen.
pore
Yany Many trees and varieties, especially of
Mative plums have insufficient pistils. native plums, have insufficient pistils.
3. A fall-plowed alfalfa sod, properly 3. A fall-plowed alfaifa sod,
worked up this spring, should grow you worked up this spring,

PRIL 6, 191


QUESTIONS AND ANSWERS. Miscellaneous.

GRASS SEED PER ACRE I see by your March 16 th issue, that 30 lbs. of clover and timothy seed per to secd this spring. It has been under


 recommend? a young farmbir Ans.-Mr. Grisdale thinks that it would
pay to spend oven more than 875 to pay to spend even more than 875 to
thorounhy seed 22 acres. So do we, if
anything less than 20 bos. of seed per

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book on cream separators ever published. With it as a guide you will avoid making ng a cream separator. Ask for book No. 2
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or you may get an imitation. There-or you may get an ime name "BIS-
fore be sure that the noller you SELL" is stamped on the roller you buy, for no roller is a genuine
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| :---: | Gerald Powell，Commis in in





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Sound and right，with best of breeding Wm．Meharey，Russell，Ontario UNKO 2．111／2
URI PIERCE．FALCONBRIDGE，ontario For Sale：Imported Shire Mare


THE FARMER＇S ADVOCATE．
QUEStIons and answers． Veterinary．

ELEPHANTIASIS．
Horse had lymphangitis last December． It broke and discharged for a time，and have tried everything，but cannot reduce the size of the leg．
Ans．－This is called
＂Elephantiasis， and very little can be done for it．That
is，treatment is seldom successful．Treat is，treatment is seldom successful．Trear
ment consists in giving the patient dram iodide of potassium three times daily．If this causes loss of appetite，re－
duce the dose to 40 grains，or even less， but it is probable he will be able to to
stand dram doses．Rub the soollen
dre parts well once daily with a liniment
made of 4 drams each of iodine and
iodide of potassium，and 4 ounces each iodide of potassium，and 4 ounces
of alcohol and glycerine．
V ．
diarrhea in calves My calves become affected with diarrhea
shortly after birth，and die at from two shortly after birth，and die at J．G．W．
to three days． Ans．－stable，and gains the circulation
in the se
through the navel opening．Prevention consists in thoroughly disinfecting the
stable．Sweep out thoroughly，and then stabsh thoroughly with a hot five－per－cent．
walution of carbolic acid．Clean the
sold stalls out every day，and scatter freshly－
slaked lime on the floors before scattering slake bedding．Dress the navel of the
fresh bedd．
calf as soon as possible after birth，and calf as soon as possible after birth，and
four or five times daily until it heals， with 1 part formalin to 9 parts water．
Curative treatment consists in adding $\frac{1}{b}$ ounce aqueous solution of 1 formaldehyde
to $15 \frac{1}{3}$ ounces water，or 1 to 31 and adding a teaspoonful of
of milk fed to the calf．

## INAPPETENCE，ETC．

1．Jersey bull， 16 months old now，di
well until three months ago，when he be well until three months ago，when he be
gan to lose his appetite．I have purge
him，but he has not regained his ape tite．I have also given him condition and seems itchy．
2．Berkshire boar，nine months old， J．R．S．
Ans．－1．If he is tubercular，nothing can be done．The only means of diag－
nosing is by the tuberculin test，applied by a veterinarian．It he is not abore an improvement．Give him a dessertspoon－
ful of the following three times daily，viz： Equal parts sulphate o？iron，gentian，
ginger and nux vomica． ginger and nux can be done is to keep in
2．All that can
tair condition，allow plenty of exercise， and not breed oftener than
LAME HORSE
$\qquad$ months age．A small lump appeared in peared．There does not appear to be any
extra heat in the leg or foot，and draw－
ing does not appear to hurt him，hut he goes very lame on hard roads．I have
sent for $a$ bottle of think this is a good remedy？T．H．M．
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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won at the leading she Canada and the United States the grand total of 40 cham－ pionships against all comers on both sides of the line，be－ sides dozens of firsts，seconds and thirds．We never had a better lot on hand than just now．They，were winners in

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 a topper．T．H．HASSARD，MARKHAM，ONT





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 A FEW CLYDESDALE SELECTS LEFT． $\begin{gathered}\text { I have one } \\ \text { Clyear－old } \\ \text { Clydesdale } \\ \text { stallit } \\ \text { an }\end{gathered}$ n

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Scotland，winners at New
York，and winners at Guelph and Ottawa．They are the best types of the breed，with size，character，quality，action and breeding，and we sell ones can be bous erms to bought，and gil tallions and fillies and Hack－ ney stallions．

Long－distance＇phone

QUESTIONS AND ANSWERS Miscellaneous.
RETURNING RING If a young lady gives you the engage-


Ontario Ans.- She might have. What you menion would be a strong circumstance ad-
ferse to a claim on , her part, but it would not be conclusiv

TOULOUSE GEESE. I see in your valuable paper the picture
of a pair of Toulouse geese. II would
of ilke to know where I could get a pair of
lit like to know where I cold have to pay for
them, and what I would you please let me know the
same. Could you ame. Could you please Ans.-Put an advertisement in our
"Wants and For Sale" column. Breeders Wants and stock of this kind for sale, Who have stock of the to some adertising also
Have a mare five years old which is a Have a mare five years ost what would
cribber. Could you suggest
SUBSCRIBER. prevent it Cribbing, or windsucking, Ans.-Cribbing, or ward to check. most successful treatment is to buckle a
strap tightly around the throat. strap tightly around the throat.
course, it must not be sufficiently tight interfere with respiration or swallowing, but so tight that the neck cannot ex-
pand as it must in order for the vice to pand as it must in order for the
be practiced.

EXPRESS CHARGES
My Wife lost her mother last year in
Scotland, and her father decided to come Scoliand, and her father decided to come
to Canada. He brought his two young-
est daughters with him, and in their lugest daughters with him, and in their lug-
gage they brought their piano, having gage they brought their piano, having
had it booked and registered through "- No Agency," at Edin, and paid $£ 1$ saying they did not charge enough, and
asking for seven dollars more. Can they asking for seven dollars more. Can they
collect it ?
SUBSCRIBER. Ontario. Ans.-They probably can, if their charg-
ing you the amount paid only was owing ing you the amount paid only was
to a mistake merely, and was not in accordance with their tariff for such service,
and assuming also that such tariff charge and assuming also that such tariff ch
is not unreasonable. BLACK TEETE IN PIGS. in pigs, or is it the effects of some other in pigs, or is it the effects of some pigs ten
ailment . Had a bunch of eight pould hardly
weeks old; four got sick; would her weeks old; four got sick; would hardly
eat; would cough, and seem to froth at eat; would cough, and seem to froth at

the mouth. Was advised to look for black teeth and pinch them out. They | seemed well. Took them out of all but |
| :--- | one pig. Thought, perhaps, it was indi-

gestion, so commenced to toed gestion, so commenced to feed sulphur in
feed. They have all gotten around right, except one, which died, but don't
think he got any of the sulphur: the rest think he got any of the sulphur; the rest
all did. Was yeeding them a mixture of 100 lbs. bran, 200 lbs. middhings, 100
lbs. chop (oats and barley), 100 lbs. corn meal. That were fed three quarts night
and morning with mher and morning, with what milk they want-
ed, and mailk at noon, with pulped roots ed, ard milk at noon, with pulpea roots
atter. Had clean pen, and an occasional
run in barnyard
W. M. run in barnyard. $\quad$ W. W. M.
Ans.- Many pigs are born with black
teeth. ${ }_{\text {These }}$ are but temporary teeth,
Teeth. These are but temporary teeth,
but in some cases they are so long and sharp that they irritate the sow when
nursing, and, it is believed by many pig-
raisers, cause her to refuse to be sucked. Some hog-breeders make a practice of
reaking out the black teeth with pincers breaking out the black teeth with pincers
as soon as possibe atter the pigs are
born. A correspondent, whose letter peared three years ago, reported that he
had a litter of pigs which were allowed To feed quietly for a week ore two, after
which the sow became cross, would not let them suck, and they were likely to
starve. He took out all the black teeth, then let the sow in with her litter, and
she lay down quietly, and there was no
more trouble. The pigs grew rapidly att-rwards. The correspondent had simi-
lar (ases before, and in every case the ples imirroved rapidly atter the treatment
Youl were right, we think, ${ }^{\text {in }}$ believing
$\qquad$ just a possibility that they might be in-

THE FAPMER'S ADVOCATE

A Horse is What His Stomach Makes Him
Few horse owners realize it, yet it's a fact that the physical beauty,
curace and end of one function-digestion. The stomach of the horse is small and his ration less than the great bulk consumed by the milch cow or fatting steer. Evidently, Dㄹ HESS STOCK FOgD




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When you are wanting any cuts of Poultry, Live stocie, or for spo vertilly deep-etched plated PRINT CLEAN WEAR LONGER PRICE REASONABLE Write us your wants. ROBERTS
ENGRAVING COMPANY LONDON-CANADA DUNHAIIS' PERCIERONS C. For forty-six years renowned large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as ually selected for size, bone quality and excellence. If you want choice stallions or mares, write for cata logue, illustrated from lif
W. S., J. B. \& B. DUMHAM WAYNE, ILL. MESSRS. HICKMAN \& SCRUB Court Lodge, Bgerton, Kent, Eng. Court Lodge, Egerton, Kent, Ens. Exportern of Pen we hall be hhipping large numbera
From now on horsem of all breeds, and buyers should write uu for
particurars before buying else where If if ou want
imported stock and have not yet dealt with uw, we

 Percheron, Belgian, Shire and Hackney Stallions and Mares As fine a lot as there is in America; 3 to 4 year





MSGEERORSES


## Your Horse Is

 Worth InsuringNo matter what its valu
Whether its
s. so. ono


General Animals Insurance ent Canada

No. 106 York St., Ottawa


You Can't Cut Out

IIIBorogahtin, but
ABSOBEINE

Jan. 21. 1910, It have wed ABSC
W. F. Young, P. D. F.,

258 Temple St., Springfield, Mass
Clydesdales For SALE-IImp. and Canas
 PLEASE MENTION THE ADVOCATE.

THE FARMER'S ADVOCATE
QUESTIONS AND ANSWERS. Miscellaneous.
tomatoes under giass I have a good greenhouse. fitted with a
reliable hot-water heating system, and can
carry no even temperature of nbout sixty carry an even temperature of about sixty
or seventy degrees. As I confine myself to the raising of tomato plants and an-
nuals, it it is empty a good part of the year. Would it be proftable for me to
grow ripe tomatoes for the winter mar-
ret ket? If I could successfully grow an
average crop, what would be -the best way
af disosing of the fruit? About what of disposing of the fruit? About what
price could I expect to receive for tomatoes from November 25 th to January
25th. Where would be the best mar-
W. K. Ans.-The tomato crop is very uncertain
under glass. You can sell in almost any Mnder glass. You can sell in almost any
city, for they are not pleturifl in the the
winter. The price would be from
oce
 It requires a good deal of experience to
make any of these profitable under glass.
C. M. NEWANS.

MARE LOSES MILK. I have an 11-year-old mare which was
bred on June 7 , 1910 , whose milk is
running for a couple of days already running for a couple of days already.
Does it hurt her? She is in good condition, fed on hay and some grain, and
worked pretty regularly. Does this indicate that she will soon foal? How
should I treat her now, and at foaling Ans.-A mare from which milk escapes for a considerable time before foaling,
often produces a weak foal, but this is
not necessarily the case not necessarily the case. At foaling
time, watch the mare closely, and, if the
foal be weak, help it up, and hold up and assist it to nurse. See that it get
auflicient nourishment every hour until it
sel
con milk, which acts as a needful purgativ
to remove the meconeum (the facces pres sary to see that these are brought away
Oil the forefinger, and insert carefully int the rectum, and remove the meconeum
and then give an injection of raw linseed
and oil. Do this four times daily, untir the
feoces becomes yellow. Do not give
purgatives. TRIMMING BULL'S FEET
QUANTITIES OF PEAS AND QUANTITIES OF PEAS AND
OATS TO SOW-PREVENT-
ING PEA WEEVIL. 1. What is the best way to trim a
young bull's feet? If you cut the toe off straight, they will turn up.
2. When you sow peas and oats to gether, what is the best quantity of eac
to sow per acre on clay loam soil? 3. Is there any way to treat seed peas
W. It
trevent bugs
Ans. 1 . An experierceced stock - breeder says that in trimming the feet of a bull
it is well to cut them off square at the proper length, and afterwards trim away
the under portion so as to bring the hoo to a natural-shaped point.
2. The quantities of peas and oats $t$
sow for mixed cron denends on the pursow for mixed crop, depends on the put upon varicty. If for grain production
ahtout $2 \ddagger$ bushel o ver acre, equal quanti-
ties of cach,. would be enough to sow seed would bee advisable, from, 3 to $3 \frac{1}{6}$
bushels per acre being desirable.

$\qquad$




A Dollar's Worth of Durability for Every Dollar of Cost

WHATEVER roofing you choose for your building, don't let the question of first cost have too much influence. The cheapest roofing at first is apt to be the most expensive in the end.

## NEpanseT

## Paroid Roofing

costs a little more than some roofings, but every dollar of additional cost will give you a dollar's worth more of service. The idea back of NEPONSET roofings has always been to make them so durable that their years of honest service would be their strongest recommendation. NEPONSET roofings are the most economical roofings you can buy because they wear so long without" a single leak.

Write for Book of Plans of Farm and Poultry Buildings We will send you at the same time The NEPonsET Booklet, which de-
scribes the different kinds of NEPONSET Roofings for different types of都
F. W. BIRD \& SON, Makers, 482 Lotteridge St., Hamilton, Ont.


$\frac{\text { Thi bominion linseed oil co., LIMITEI, BADEN, ONT }}{\text { ORCHARD GROVE HEREFORDS }}$ $\begin{array}{ll}\text { young bulls and ono and two-year-old heiters, of show-ring quality and most fashionable } \\ \text { brocding ; thick-feshed, smooth and eveven. } & \text { L. O. CLIFFORD, Oshawa, Ont. }\end{array}$


$$
\begin{aligned}
& \text { 1. I have a mare for several weeks; swol- } \\
& \text { had a swollen leg for seve Hock istelf is } \\
& \text { len from hock to fetlock. Ho seems to give }
\end{aligned}
$$

$$
\begin{aligned}
& \text { len from hock to fetlock. Hock itself it } \\
& \text { very much swollen, and it seems to give } \\
& \text { vain on pressing the point of it. Inside } \\
& \text { pain }
\end{aligned}
$$ pain on pressing the point of it. Inside

of hock very hot and feverish. I have
ofathed ever since I noticed it; nothing bathed ever since I noticed it; nothing
more. Could you kindly tell me what
the trouble is, its cause, and treatment? the trouble is, its cause, and treatment?
(I attribute it to having slipped and fallen on ice, which she which has several
times this winter.)
2 Have aged horse which 2. Have ag on inside of tail bone, vary-
hard lumps on
ing in size from a pea to a hickory nut, ing in size from a pea to a hickory nut.
what are they, and what caused by̆? 3. I have orchard which I would like
to seed down to clover this spring for permanent pasture, without taking a crop
off, if that is advisable. It has been in
pastyre pasture sod for several years, and was
only partly plowed last fall. Is such thing advisable?
4. What temperature should milk be kept at when put in pans for cream certain
rise , Should it be kept at any core on top
temperature, and, if cream froze on the of milk, would that tend to prolong th
churning operation? Ans. -1 . This is sprain of the back
sinew or flexor tendon, caused, no doubt. sinew or flexor tendon, caused, no doubt
as you suggest, by mare having slipped
and fallen on ice. Treatment consists in
and and fallen on ice. Treatment consists it
shoeing with a high-heeled shoe, so as t t
throw tendons in a position of partia hrow tendons in a position of partia
repose. Give rest and tow diet, bathe
with hot water several times daily, and
after bathing, apply a liniment after bathing, apply a liniment compose
of 2 ounces laudanum, 1 ounce chloro form, 1 ounce acctate of lead, and water
to make a pint. When the acute sore-
ness and inflammation have subsided,
change to cold change to cold water and a stimulan
liniment of 2 ounces oil of turpentine, ounces tincture of arnica, 4 ounces alco-
hol, and water to make a pint. 1n an hour after applying the liniment, apply
bandage that has heen soaked in col
water, to be left on until time for nex
$\qquad$
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$\qquad$

 Aberdeen-Angus Cattle - Stock ath ageen EOOd otrainn, At RW DINSMORE Mana Ser. "Grape ANOREW Granse" Farm, Clarktburt, ont.

 MBERDEEN - ANCUS CATTLE ABERDEEN - ANGUS CATTLE

 Aberdeen-Angus The "TWEEDHLLL"
 ABERDEEN - ANGUS
 R Scotch-bred SHORTHORNS ! During the present month
am offering four very choice young bulls, ready for service, of the best breeding and quality, a
very reasonable prices. Also some good H. J. Davis, Woodstock, Ontario $\frac{\text { Long-distance Bell phone. }}{\text { WILLOW BANK STOCK FARM }}$ SHORIHORN MERD ESTab-
 to ofer the famous Duthie-bred
to oftily Joy Morning 32070
he is very active sure and He is very artive sure and dquie
Also bulls and beiers got by him
and young cows bred to $\xrightarrow[\text { JAMES DOUGLAS, CALEDONIA. ONTARIO }]{\text { Glenburn Stock Farm }}$
If I Had Eczema of skin trouble chansing away the imis nuthing else can.
Yes. if I had any kind of skin trouble Write the D. D, D. Laboratories, Dept.
A. 49 Colborne street, Toronto, and thry

FARMERS, AND VEGETABLE GROWERS
Eyr)

 MANY TMOUSAND Yont AnMUALIT Conts mosphoric acio and ammonia
andir answta the arove
fure bone meal is the cheafest
FERTILIZER.
 THE seno ron rmicrs. cre
The w. FREEMAN Co
Hamiton Canada
 Kins' strain JoHN RACEY
Lennoxvile, Quebec.



## 15 <br> AND UPWARD <br> 

THIS OFFER IS NO CATCH proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for $\$ 15.95$. Different from this picture which ilinstraty machines. Skims Iquart of milk a minute, hot or cold; make thick or thin cream and just as well as any higherl can run it sitting down. The crank is only 5 inches long. Just think of that! marvel, easily cleaned, and embodies all our latest improvements. Gears run and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain 10 Scotch Shorthorn Bulls |(I)

 JOHN MILLER, BROUGHAM, ONT Woodholme Shorthorns are of the riches odern in type and quality. For sale : One aick
oo year-old heifers, several young bulls, thick eshed, low-down and mellow. . M. FORSYTH, Claremont, Ont. MAPLE LODGE STOCK FARM ostrictly first-class young Shorthorn A. W. SMITH Maple Lodge, Ont HIGH-CLASS SHOKIHURNS have type, pure Scotch and Scotch-topped, sired by
 SPRING VALLEY $\begin{gathered}\text { It on mant } \\ \text { soud } \\ \text { Shorit }\end{gathered}$ SHORTHOR S S Sorm pill we Canadian-bred and imported Females all ages
Also a few good YORKSIRES boars and sows. Phone connection. Kyle Bros., Ayr, Ont. FLETCHER'S SHORTHORNS



## SHORTHORN CATTLE

 Shorthorns ported Jo prites Robert Nictiol \& Sons. Scotch Shorthorms porsale Thr (1)w in Pettil Freeman P. O., Ontario

AMERICAN SEPARATOR CO., BOX 1200, BAINBRIDGE, N. Y.
Our sis. propesition.

## (5) $\operatorname{THE}_{D O W N}^{\text {LOW }}$ AMERICAN SEPARATOR

## EXCELS ANY SEPARATOR IN THE WORLD

 OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the qual-ity is high. Our machines are up to date, well
 skim closer, have a simpler bown with fewer parts than any other cream separator Thid
sands of machines in use giving sancs of maehnes
faction. Write for our 1911 catalog. We will send it free, postpaid. It is richly illus
trated shows the machines in detail and tells all about the American Separator. Our surprisingly liberal long time trial croposition, enenerous terms of
purchase and the low prices quoted purchase and the low prices quoted
will astonish you.
We are the oldest exclusive manufacturers of hand separators in America and can not afford to sell an article that is no absolutely first class. You save money by dealing with us and at the same time obtain the finest and highest quality machine on the marke.. © you on every American Separator. We ship immediately. Cream SeparStors are free of duty in Canada. Write us and get our great offer and handsome free catalog.

SCOTCH SHORTHORNS


SCOTGH NOO HEAD IN HERD.


 Farm 1/4 Mille from Burlington Jct. Sta. Mitchell Bros., Burlington,0nt.



Heifers and cows of various ages and choicest breeding. A ctocely-bred Clyse Freeman, Ont.
years, from imported sire and dam. Burliog-.

H. CARGILI, \&E SON

 John Clancy, Manager, Cargill, Ontario.

## Robert Miller, Stouffville, unt.



Springhurst Shorthorins and Clydesdales


|  |  |
| :---: | :---: |
| Robert Miller, Stouffiville, unt.$\qquad$ |  |
|  |  |
|  |  |
|  |  |
| Shire Stallions and Mares, Shorthorn Cattle (both sexes); also Hampshire Swine. Prices reasonable. |  |
| Porter Bros., Appleby, Ont., Burlington Sta. Phone. |  |
|  |  |


 tor sale, in farrow to a dirst-class twars
at prices reasonable; am sold out of hoars It for service. This in the best
ever had in the business Advocate" is the best paper for tlock-
men to advertiso in to make good tor good stock. It takes the lead of all B. Rothwell, Hillsdale Farm, Ottawa,
dyertises for sale the imported Clydes advertises for saie the imported Clydesdale stallion, Banquet, a, brown four-year-
old son of Silver Cup, by Baron's
ridie. Banquet was winner in his two-year-old Korm of many prizes in the North British
Shows notably first at the United counties Show of Durham and Northumber-
tend, and a horse toal by him was errst at above show in 1909 , also at cumber-
land Sham it is hardly necesary to draw attention to the fact that his breadRothwell has silver Strand, by the same sire, in his stud, he has no use for both last season's mares carrising foals to him. the don jerseys. There is probably no herd of dairy cat-
in the Dominion, of any breed, that is kept in better condition or receives more care, than the Jersey herd of David
puncan \& Son, Don, Ont. The strictly
S. high-class character of this herd is well known by Jersey fanciers all over thà
continent, and certainly there is none that ns recived more attention in the matter of herdheaders. This is the only herd in the country that can boast of having
at its head a son of the world's graentest Sire of the breen, Goldoen Ferrs's Lat, a bull, it is claimed, that has sired more
prizevinners, that have sold for highe prices, and his heifers have been higher
testers and producers, than the get of any

 yunthorpe Fontaine (imp.), who with a butter record of three pounds a day, At
ate same sale, a two-year-old daughter of
 er dam, Fontaine 9 th, a hall-sister to
Golden Fern's Lad, has a butter record
 and $\$ 10,000$ and another eilisgu
onthsold sold for $\$ 10,200$. Asistant service is isililiant's Golden Fern, by Fontain's Golden Fern, a son or Gotaen
Fern's Lat, dam Imp, Brilliant Dentonia,
 Can has lately purchased the royaliy-bred young bunl Fiminent Royal Fern, got by
Sensational Fern, a son oflden Ferrs'
L.ad, dam Fiminent Evasion, with a milk
 milk record of the herd shows: For ma-
$\qquad$
$\qquad$

## 0

APRIL 6, 1911


 any position
hook or or ope.










 Woodstock, Ont


Toronto Salt Works, 128 Adeclate st Toronto. Det Don Jersey Herd
 D. DUNCAN, DON, ONT



THE MAPLES HOLSTEIN HERD


Walburn Rivers, Folden's, ontarlo Elmwood Holsteins offer choice young

 HOMEWOOD HOLSTEINS


 Holstein Cattle $\begin{aligned} & \text { The most proftate darl } \\ & \text { breen }\end{aligned}$
 Lake View Dairy Farm I have seteral


[^0]THE FARMER'S ADVOCATE


Brampton Jerseys $w=x$ cows and some calves for sale.
Production and qualit. B. H. BULL \& SON, BRAMPTON, ONT Riverside Holsteins ${ }^{\text {WE NE NED THE MILK }}$

 J. W. Ricrardson, Caledoria Ont

$$
\begin{aligned}
& \text { J. W. Richardison, Coleountia, Unt. } \\
& \text { Hangidistance 'phone. Co. }
\end{aligned}
$$ FAIRVIEW FARIS HERD


 E. H.

## Lakeview Holsteins! ?


H. F. Osler, Bronte, Ontario HOLSTEINS AND YORKSHIRES


 D. C. FLATT \& SON, MILLGROVE, ONT. R. F.D.NO. 2 Centre and Hill View Holstelns Wo have added to head our herd ${ }^{2}$,

 S59. Silver Creek Holsteins $\begin{gathered}\text { We are now offering about a dozen } \\ \text { Yearin } \\ \text { The } \\ \text { geif }\end{gathered}$
 Woosstock station. Ph hione toonnecection
Holatein Buila R F Hlaks, Newton Brook, Ont., York Toronto Shilpplas Pol
 BUSINESS-BRED AYRSHIRES



 CHOICE AYRSHIRES

 AYRSHIRES



 Yorkshir'eS $\begin{gathered}\text { yount } \\ \text { dithene. } \\ \text { dige } \\ \text { ALEX. }\end{gathered}$

 STONEHOUSE The champion Canatian herd for tion at the teading



LINCOLN LONG-WOOL SHEEP And Shorthorn Cattle The Riby Grove Flock and Herd, owned
MR. HENRY DUDDING,


 Apply: THB OWNER, RIBY GROVE.
STALLINGBOROUGH, GRIMBY, ENGLAND. Alloway Lodge Southdowns


 ROBT. MCE WEN. BYRON, ONT. NO CATTLE and SHEEP LABELS Motat ear labob adrem and ayy number required proctical. The tock, Do oot aeglect to sent for for


The "STAY THERE" Alum Inum Ear markers

 Michael Dugan, a journeyman plumber,
was sent by his employer to the Highwas sent by his employer to teak in the
tower mansion torenai a gas-loal
drawing-room. When the butler admitted drawing-room. When the butcer admitted
him, he said to Dugan "You are requested to be careftul of
the uluors. They have just been pol-
ished.".


## there are few people

## Who Have Rlever

 Experienced
## A HEADACHE

Headeches effect all ages and botb exese alike, bet the fomale sex is naturally the more eliecten and more delicate organization of the systern Burdock Blood Bitters has, for years been curing all kinds of headaches and
pou will only give it a trial we feel sure you will do for you what it has done for thousands of others during the paad thirty-five years.
Mra. Ci Meadows, Clarkgburg, Ont
writes:- ${ }^{\text {Fitor years }}$ I was troubled with
 diso constipated. I was advised to try
Burdock Blood Bitters.
I only tool
 three botles of the med. I find I am
feel lile a new woman.
completely cured, and I can truthully completely cured, and 1 can truthrunty
teasify that it is the best medicine I have lestiry that
Burdock Blood Bitters is manufac tured only by The
ed. Toronto. Ont.

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. Miscellaneous.

Hollow-wall silo. many yards of samel would it take to
 about 10 cublic yards of sand and 14 bar-
rels of centent, if mixed 1 to 5 , and with REGISTRATION OF CLYDESDALE
 registered in the C'anadian stuabook?
2. What course will I I need to take to
have her registered? Ans.-She will require to have four
straight crosses of ouristered Clydesdale
sires.
For full particulars, address Account
Ottarva. WASTE OIL FROM CREAM SEPA There is some waste oil irom our cream separator. Could tyou suggest some
method of taking the dirt out so it could be used again ton batting on ort ooton waste, and thus
remove the dirt so it mav bo wod remove the dirt so it may be used again
for "slow -running" machinery, but it or "slow - running" machnery, but it
would not be advisable to use this filtered oir on the separator again, which is a
"fast- - running" machine, and needs the

"t | best of oil $\begin{array}{l}\text { Sometimes this waste ool } \\ \text { cot ainins milk, water, and other impuri }\end{array}$ |
| :--- | cortains mink, water, and other impurr-

ties, which render it of very
If the ve value.
If machine is a small, hand cream separator, I scarcely think it would pay
to filter the oil. CHESS-FERTILIZER ON POTA 1. Last : an 1 had a lot of chess in my
fall wheat. 1 harrowed it in the spring Tall wheat. inarrowed in the spring
Would this be the couse of the chess in
my wheat? Will chess prow then

 unless, as is unlikely, you injured the
Wheat, giving the hardy chess oportun-
ity to grow and seed more abundantly than it would otherwise have done. Chess
is a distinct plant just as much as wild
wise onts or mustard or sow thistle. Som
chass sede must have been in the ground
possibly having boen sown with the what. Manys people have chess in the
whent without kowing it untit tint whent without knowing it until failure d
the wheat kives the weed a chance to do

Landlord and tenant.
 Himer of sap buckets and sap pans. The
 (Vile are to be made, the quustion aris "Onicon same premises are two barr nther it an inconvenient distan

Please Mention The Advocate


DUROG-JERSEY SWINE, Maple Grove Yorkshires



## GOSSIP

Atention is directed to the advertise-
ment in this paper of the Cyclone Wovern Wire Fence Co., Toronto, whose specialties are farm and lawn fencing, and gates.
The company call special attention to the tact that in the pest two years their $M$
style of fence has been on the market Sthe or ance has been on the market,
their machines have been taxed to their utmost to keep up with the requirements
of their customers, and they have installed of their customers, and they have instate
more machines, so so hat now their possible output is 250,000 feet per season in this stye alone. Se the advertisement, nota the te
lars.


Use it to make floors bright and smooth as glass, easy to keep clean, (soap and water won't hurt M L Floorglaze). Doesn't get cracky ; doesn't show scratches; lasts amazingly and holds its beauty. Surpasses paint or varnish or stain. Renovate your whole house with M L Floorglaze at small cost-a gallon coats 500 square feet. Apply it yourself to-day and it will be dry tomorrow morning. Get ML Floorglaze now.

ML FLOORGLAZE comeo fin tins of handy size, littlo add big. Choose among 17 endur-
ing colors in solid enamel ing colors in solid enamel -
weven shades in Lacs that imiseven shades in Lace that imiTranaparent for natural finish. ML Floorglaze won't fade and is weather-proos-soll as for indoors. Has a hundred uses abous your home-ask your dealer or get new from ue
direct. Imperial Varnish aid
Color Con Co., Ltd., Toronto, Ont.

is all strength. Standard Fence is all No. 9 hard Steel Wire -galvanized to prevent rust-and crimped to allow for
contraction and expansion. "The Tie That Binds" is galvanized steel-holds running wires and uprights solld as a wall without injury to either. You've got a fence to be proud of-solid, substantial, attractive, permanent -when you put up a Standard Wire Fence. We make Gates of Galvanized Tubing - rustproof and will last much longer than ordinary painted metal gates. Fencing. Sent froo on roquest. What's your addrass CY LMITRBD TIE STANDARD WIRE FENCE CO. OF WOODSTOCX
Woodstock, OmL and Brandon, Mar.
TRADE TOPIC Seed wats grown in Prince Edward
Island have gained an excellent reputafion when and wherever sown in Ontario
and the Western Provinces, and the selected and separated seed sold by Jos-
eph Read it Co., Summerside, P. F. .., satisfaction to growers, the seed having Aceripher separatore, which seliminated by
weed
 Which has done much to enhance
of the oat crop of those 1 rove
Farmers wanting first class. pure nan sped, should write this lifin for

$\qquad$


This Book Has Saved Thousands of Dollars For Other Canadians May I Send YOU a Copy FREE LL I ask is that you send me your name and address so C URELYY You are interested in a roof that is so fire-proof that fire insurance companies quote much lower rates on
 proof, wet-proof, leak-proof, rot-proof, wind-proof. A believe you will b be greatly interested in the facts it
contains about roof-cost and roof-value. It is not overenthusiastic, nor extravagantly-worded. It does, not
promise "anything to get you to buy my roofing." I
have purposely been very careful to confine myself to have purposely been very careful to confine myself to
stating plain facts in their logical order. I leave it to
your own good judgment to decide what kind of your own good after reading my book. My object is
roof you want ald
to give you reliable, complete information so you can decide for your own best interests. You can believe what any Pedlar advertisement tells you mont it makes -as much so as That's why it
sworn evidence in court. of important you should send for this book
of mine because it contains "the whole
truth and nothing but the truth" about the roofing question. Illustrated from Photos of Modern Farm Buildings, and Full of Hints of Great Practical Value to YOU winter, painted, nor patched, nor that need with
be porter ARANTEED to be a perfectly satis-twenty-five years

1 OU have everything to motion about roofing materials. Wheres
no satisfaction in saying "I wish I'd known"
when you face a loss. And you cannot know all
you should know about the cost and value of different
kinds of roofing material until you know all the facts you
kit

## Don't Wait Until You Need a New Roof-Get It Now

HERE'S no better time to get this information than RIGHT NOW. While you - on it, put it in an envelope and mail to my address nearest you. Or simply send me a postai card, mentioning this paper. Say you want any a dot of valuable information, just by asking for it. You get
A Good Roof For a Hundred Years Guaranteed in Writing for Twenty-Five T may seem hard to believe. Yet that is exactly what you are to expect of an
Oshawa-shingled roof. For Oshawa Steel Shingles, made of tough, heavy steel, thoroughly galvanized, make a roof that wok tells why you can be sure of this. Also tells about my Guarantee, in proper legato the day it is put on. Do you know of any

tr o PEDLAR PEOPLE of Oshawa
 PORT ARTHUR
45 Cumberland S.
2-46 Prince William SI. WINE 45 Cumberland St. 76 Lombard St.


[^0]:    

