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\text { LONDON, ONTARIO, APRIL 13, } 1911 .
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\author{

- What the Farmer Can Do With Concrete,"
}
tells you how to prepare the ground, make the Forms and mix the Concrete. Everything is simply and thoroughly explained in plain, direct language easily understood. Write for this book to-day. Read it and prepare to start in and build a Concrete walk.

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6What the Farmer Can Do With Concrete."
Whate in constructing

|  | Hitching Poste | Stalr: |
| :---: | :---: | :---: |
| Barss | Houso |  |
|  | Milk Houso | Troughs |
|  |  | Walks Wall copin |
| ${ }_{\text {Fence Posts }}$ | Stios | wall curbe |
| etters | Sheas | Wind Etc. |
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QUESTIONS AND ANSWERS Miscellaneous

LOST QUARTER OF UDDERCEMENT TILE.
 When 1 began to milk her, three teats
gave milk all right, but the lett hind
俍 quarter would give no milk. The swell-
隹
has all gone, but the milk has not ing has all gone, but the milk has not
started, although the hole in the teat seems open. will that quarter come the toat
fight another year right another year? ? Are cement tile giving good satisfaction tor draining farms? Which is the neavier, cement or clay tile? A SUBSCRIBER. Ans.-1. A blind quarter of udder is lika many other things, much more easis
lost than recovered. It is very unlikely $\underset{\substack{\text { lost than } \\ \text { indeed that the quarter in question will }}}{ }$ $\underset{2}{\text { ever give milk again }}$
but it is yet too soon to say ww
popilar vericict may prove to be
cost of ceminnt wall and 1. What would it cost to build a ce-
ment wall under a barn, the wall being 9 feet high, 49 feet 2. The cost of cement floor for same
narn?
I have lots of gravel and sand. Ans. -1 . So tar as cost of labor is cóncerned, estimen tocal conditions and the
pending upon torl proportion Neither is it wise to give
himself. Nemer
cost of cerent. That may vary also. The cement required for wall under barn,
49 feet by 75 feet, 9 teet high and 1 foot 4 thick, mixed 1 to 9 , would be about 70 barrels; gravel, 20 cords.
2. For the foor, mixed
mat averaging three inches thick, about 8 coras or gr neeld
would be neede
Loose bark on old trees. What do you think of scraping lose
bark off old apple trees, and then whitito-
and washing them ? Do you think it will do
the trees any good, and do you think it will destroy any of the moths that sting the apples? Ans.- -Careful scraping, off of the rough
loose bark on all trees, is something of benent as a a preliminary to thorough
spraying, but is seldom very necessary,
though it enabies you to reach scale inthough it enables you to reach scale in-
sects better with the spray. Thorough
The sprayne athen or two or three years whil
improve the appearance of the bark with-
In out scraping. In our orchards, we have
not $\begin{gathered}\text { Practiced } \\ \text { theraping. Whitewashing } \\ \text { the trunks alone will do comparatively }\end{gathered}$ little good Beter to wash the ${ }^{\text {limbs }}$
and let the trunks get the benefit of what
what runs town. But the proper thing is to
spray the whole tree thoroughly before the leat buds open, with lime-ulpurn
(spring strength), and then follow later as per directions in our Spray
Siee issue April 6 th. WAGES-ABUSIVE LANGUAGE. November. Now, regarding work terribly
nothing to say, but ho has been to
rough and abusive to my stock, both in language and otherwise. He has run the
limit of my patience, and, on gently chidints him, he gave me a dreadful cursing,
damning me for all he could lay his Congue to, and also saying as soon as I
was dissatissied with him, all I had to husy season is just coming. If he leaves-
as leave he must if another occurrence happens like the former-can he demand
mi. "o pay him for time put in if I tell
mo
$\qquad$
$\qquad$
$\qquad$
Yes; but only such amount a
reasonable under the circum-

1. his leaving.
I., wends upon the local by-law (it

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homesteading, because, not homesteading, because, not onl
are good homestead location be be are good homestead locat Scrip is rapidly disappearing
the market. On Jan. 18th. there were 1,510 Scrips outstan ing. On March 25 th, 1911 , there In that time only 29 new Scrip were taken off the market. This was during the three wintermonths, you have any thought of taking up a Scrip, write or wire us. an opportunit

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 INVESTOR?



AGENTS Here It Is pooker semm ane


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Vol. XLVI.
EDITORIAL.
How many farmers are going to renovate th
old orchard this season? Hold up the hands.
Uninfurmed men know a great many things reserve judgment entirely.
Too many men ask merely whether a certainwrong way to look at the matter. The real economically, all things considered. Profit is a
$\qquad$ Several acres of bindweed are one of the little
diversions we shall bave on " The Farmer's Advocate" farm. Unfortunately, the infested area is year. When we do get at that bindweed, we in-
$\qquad$ this run-dawn-farm business. One day's mail last week brought two interesting private letters
from prominent agriculturists four hundred miles apart, both of whom are tackling such farms. on is not so dirty as might be wished. One iriend suggests that if there are ne farm run itself one summer. However, we are not ready for
$\qquad$ It has been often observed that some of the hyal when it comes to a practical personal issue. lers among avowed protectionists as among free raders, and we have all seen red-hot tariff advocates forget all about their principles when a vurcbasirg a foreign-made implement, or to earn an extra fifty dollars a year ine Farmer's Advocate" looks at this matter just the other way around. It believes in
freer trade as a means oi regulating prices and reducing economic waste. At the same time, it chandise when values are equal, or nearly so.
All the implements so far purchased for ." The Farmer's Advocate" farm are made in Canada.
$\qquad$ paper is a snap. They come into the office and
chat away about little or nothing. As the edito
$\qquad$ manuscript on his desk, like as not they pass
some remark about his office being a nice place
$\qquad$ it his accumulation of work, ransacks his mind courteously. Very few people have any ade
$\qquad$ a decade of farming. The hours may be
a math take more out a man
at the very with as few interruptions as
I.ONDON, ONTARIO, APRIL 13, 1911

Labor-savers' Competition. with pleasures, the announcement is made that
 sue of March 2nd. Not only was the competition of great satisfaction that the character of the con-
tributions was almost uniformly high. It was a decided pleasure to read the letters over, for no one could help observing that he was in the com-
pany of those who have active brains and are using them, who are enthusiasts ine ordinary and the ex-
"The difference between the ordine
traordinary man, or woman," as one of the two ladies who contributed says, is them, while the other doesn't." While the prizes have been
awarded, and the winning articles will, of courze, we shall publish nearly all of them, also, paying Neither of the lady contributors was awarded a prize, which mas a " mere man." In truth, a judge in any kind of competition lays The full measure of knotty points was present in this
competition. For instance, the one contrivance
or arrangement which stood away above all the rest as a labor-saver, viz., the water system in
use on the farm of John Campbell, Woodville (who has been a prizewinner in so many stiff conaitogether. It was held that the clause in the
announcement of the competition, that " patented articles or devices on the market were not admis-
sible", excluded Mr. Campbell's excellent contribution.
The first prize has been awarded to Gordon Banting, Middlesex Co., Ont., and the second and
third prizes have been divided equally between George Smedley, Algoma, Ont., and Peter B.
Fick, Norfolk Co., Ont. Ralbies Again.
In public as in private affairs, thoroughness
pays. Owing to lukewarmness of public opinion,
reflected in an indiscreet laxity of municipal en-
forcement, the joint Federal and Provincial dog-
muzzling order becanie practically a dead letter
last summer, and has been officially regarded as
inoperative since December 7th, 1910. Shortly
following the enactment of the order, a marked
diminution in the number of outbreaks of rabies
occurred, but a short-memoried public insisted on
premature relaxation of vigilance. As a conse-
quence, we again hear disturbing reports.
During the month of December, 1910, and the
three months which have expired in 1911, four
small outbreaks of rabies have occurred, nine
premises, in all, having been quarantined because
of the existence or suspected existence of rabies
thereon. Of these, oue outbreak, which involved
the quarantining of four premises, was dealt with
in the County of Welland during the month of
December; one premises was quarantined in the
County of Grey in the month of January; one
premises in the County of Dufferin in the month
of February; and it was found necessary to deal
with another outbreak involving the quarantining
of three premises in the County of Welland within
the last month. Irad the muzzling order pre-
viously in force been properly observed by owners
of dogs, it would have been possible to remove
these restrictions before December, and these
amall, scattered outbreaks would, in all probabilamall, scattered outbreaks would, in all probabil-
ity, not have occurred. It is, under the circum-
tances, impossible to state with any certainty whether or not it will be found necessary to renew vent this will not be done without the matter What a pity we did not make a thorough job
Whate very full consideration. For the Good of the Country. We refer our readers to a rejoinder by Lawrence rocity. He belabors them well, and incidentally
ives the editor of "The Farmer's Advocate" a co suppose that, for a farmer to follow his inhis advantage, and, through his increased pros-
perity, an advantage to the country at large. plainly states that for a Western farmer to pay
$\$ 40$ more for a horse from the Eastern Provinces than for one brought in from the Western States,
was for his own good and everybody else's. But i $\$ 40$ extra is a good thing, why not $\$ 140$, or
even ten times that? It could be managed. The C. P. R. have never shown any disinclination to and might like another $\$ 100$ on every horse. hy this extra toll to be stimulated to greater
uutput," have also always shown themselves quite
ready to accept a little more, in order to exert a "beneficial influence upon the whole commercial
net work of this country," and might be induced to join iu the game.
Our correspondent's argument, " in the long run," is, that the more expensively trade is car-
ried on, the better for the country. We would
venture to suggest what might be an improvement venture to suges Scratch's high-tariff proposals.
even over Mr. Sreight three times over
Have the railways carry fre their lines before unloading, charging, of course,
full rates for the extra work. Their earnings
would be wonderfully increased. There would be some more dead horses to pay for, but it would
be all for the good of the country. In the elo-
quent words of our correspondent, "Then the roar of our multitudinous industries, and the
whirl of our commercial activities will forever
drown the sinister eagle-scream of annexation." Electric Spark for Farm Work. Will electric energy, brought to the doors of
Ontario farm homes through the instrumentality Ontario farm Hydro-Electric Commission, prove more
economical than gasoline? Hon. Adam Beck, economical than gasoline ? Hon. Ahink it may
"Minister of Power," appears to thinoses, includise profitably employed for many purposes,
ing irrigation of land, operation of cream sepa-
rators, churns, pumps, milking machines, machines for cleaning horses and cattle, threshing outfits,
saws, grindstones, plowing and the like, and for saws, grindstones, lighting, cooking and ironing. This
heating, lige
sounds like solving the labor problem inside the rouse, as well as out. It is estimated that three
horse-power is the average amount required for farm purposes, and it is proposed that when heavy
worb, such as threshing, is to be done, farmers
should co-operate in groups of ten or twelve, the should co-operate in groups of con's work is being
others conserving while one man is the plan is
done. The prospect is alluring if the Commisfeasible and the power economical. The Commis-
sion is doing wisely in sending a couple of its
engineers to Europe to study the question, the party to be joined by Hon. Mr. Beck some time
during the summer. With them is to be sent a during the summer. With them is the Provincial Department of Agricul-

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ture. This is also wise. Undoubtedly, there should be someone to study the matter with an eye single to the farmer's need. He should be a practical, level-headed man, in close touch with
the farmer's needs, and should have a knowledge the farmer's needs, and should have a knowledge
of electricity. At the moment of writing it has not been anAgricultural Department, but it certainly ought to be Wra. H. Day, Professor of Physics at the Ontario Agricultural College. Keen, painstaking, $\begin{array}{ll}\text { and practical, he enjoys to an extraordinary } & \text { de- } \\ \text { gree the confidence of Canadian farmers. }\end{array}$ gree the confidence of Canadian farmers. He
studies and expounds scientific subjects in their practical bearings. His professional knowledge of ration of a thorough, lucid and very popular article on "Electricity in Agriculture," published in the 1907 Christmas Number of " The Farmer's Advocate and Home Magazine." For the sake of his collegiate work, Prof. Day should be chosen, but, more important still, we urge his selection hecause probably no one else could bring back a report that would so completely command the
confidence of Canadian farmers. We shall await confidence

The Garden of the Gulf said of Prince Edward Island Province, and the annual report for 1910, by Hon. John Richards, commissioner of Agriculture, deserves similar
commendation. The outlook is most encouraging, nearly every branch of farming being taken up with energy, enthusiasm and success, largely due is gratifying to know that the area under crop was the highest ever yet ruached .... the Island; field-crop competitions was able to soy that he had never reviewed crops of highor or more uni-
form duality. That such heave form quality. That such heasy pron should
stand stif and straight is altributen! tion with se.t mud carrying a great d... salt
which would supply humus that the soil appreciably needs. With regard to weeds, as elsewhere in Canada, a more rigid enforcement of law is called
for. The superiority of grain selected under the zules of the Canadian Seed-growers' Association ers justly take pride in their operations and their homes, and orcharding is making good progress. Horse-breeding has enjoyed a revival, and last autumn lambs reached a higher point than ever before, while egg production showed an increase of 14 per cent., with continued high prices. Like several other Provinces, Prince Edward Island began shipping cream to the United States, receivmg 30 cents per pound butter-fat, delivered at charlottetown. The islandestorage plant is being periods of depressed prices Classes in agriculture and botany are conducted in Prince of Wales College by Prof. Ross, and sixty-five scholarships of $\$ 10$ each were granted to encourage armers and farmers' sons to attend the short course at the N. S. College of Agriculture, upon the nomination of local Farmers' Institutes in good standing. The report embraces an admirable chapter by A. E. Morrison, President, and E. Carbonell, Secretary of the P. E. I. Fish and Game Protection Association, with illustrations of many varieties of birds, which farmers against insects thus prometing the ine perity of the Island.

## Growing Into Value.

woor-lots in condition a majority of the wrong thinking and false argument. Because a neglected wood-lot yields small return, those who
are indifferent to the question of are indinerent o the question of reforestation,
or opposed to it, find it easy to figure out just how much a man loses every year by having part a definite part of the farm investment, and if there is no return, there must be a loss. Those who argue in this way miss the whole point the reforestation movement. Its purpose is
restore the wood-lots to a condition in which
they will be productive. If they had been kept they will be productive. If they had been kept
in the state in which they were at the coming of in the state in which they were at the coming of a very conservative estimate, a revenue of from tured each year. If the cattle had been kept from pasturing in them, and the young trees had been protected, the trees that matured each year would be constantly replaced by the young trees. Another favorite argument against reforestation is that the man who plants the trees will not live than it is true that if his is not true, any more he will not receive the benefit. Every year, a wood-lot that is properly cared for increases in value, just as land in a thriving community in
creases in value, and if at any time the should decide to sell out, he will get his profits They are there all the time, ready to be realized Of course, direct cash returns are slow in coming in, but they differ only in degree from the returns the farmer gets for all his other work. When he plants corn, he must wait for months for payment. of the wark of plowing. The work he puts on his wheat will not be repaid for a year, and the
work of clearing or reclaiming land will not bring returns for several years. The returns from forestry are the slowest of all, but they are no less sure than the others, and the man who leaves a a first-class investment that may yield them as much as a block of stock-a good deal more than neslected wood-lots, there is the question of reclaiming waste land, hillsitles, gullies, and useless stretches of sand. All these can be made productive by planting them with suitable trees. At
present thes are not only a waste, but an evesore None of the arguments that apply to good fertile land that is kept under trees applies to them.
Only by planting them with trecs can they he made of any value at all. This is the time of mear of Agricuiture is ready to supply enough
trees in plant two acres each year, there is no
volved is small, and the returns will be almust waste places.

Prosperity, Comfort, Contentment. " Taking these Maritime Provinces as a whole, I believe, man for man, and acre for acre, there is no country under the broad canopy of heaven contentment." Hon. J. D. Hazen, Premier New Brunswick, amid the approving applause of a prosperous agricultural audience, concluded a pubic address last season with the foregoing words, which are incorporated in the annual report on 1910. The expression is the keynote of the ear ment. which resounds with a hopeful conf docuThis is evidenced not merely in the utterancos of those who officially direct the agricultural affair the reports of the local agricultural again in where the views and aspirations of the rank and file of the farmers find expression. Among other details in the latter is the encouraging attentio :aid to alfalfa-growing, in some cases futurity prizes being offered for the best plots.
In another address, Hon. D. V. Landry pinned his faith to education as the secret of continued progress. If furming had not in the past proved because voung men did not realize the no was of preparing themselves properly for so important work In a Province like New Brunswick where so many young men are making their living on the farm, there should be two agricultural colleges like the one at Truro, Nova Scotia. but he laid it down as fundamental that education should bugin in the public schools.
Referring to the work of agricultural societies, W. W. Hubbard, secretary for Agriculture, called attention to the valuable results possible by syste inatic co-operation among farmers, but said one the individual members particularly the hoys girls, in their cwn country which under proper development, should enable them to make morer money, live better lives, and have more real pleasure right here in New Brunswick than in any distant districts about which so much boasting is

It is significant and hopeiul that fruit-growing occupies so conspicuous a place in this report. The conviction has secured a firm hold on the minds of the leaders of agriculture that the proone of tho the staple fruits is destined to become wick farwing not only because of of the St. John Valley the Pethe adaptabilly and many other sections, for producing fruits of me quality, but because of their advantageous position in relation to markets. The Province
has some nineteen illustration orchards, under the supervision of the Department of Agriculture, and
t.he efforts of the Fruit-growers' Association, and 1. G. Turney, as Provincial Horticulturist, during 1910, were exceedingly encouraging. ${ }_{\text {New }}^{\text {Brunswick readers of " The Farmers" }}$ Advocate" vill find a great deal of helpful in-
formatiou in the papers and discussions at meet ings reported in this volume, in relation to fruit culture, dairying and other branches of farm work.
In order that people may be put intelligently upon their guard in regard to possible invasions of graving of the moth a fine, full-page colored enoperates upon foliase, is given. isseful feature of the report, which does the Province credit, and will prove useful in many re-
spects as a work of reference in farm libraries.

Not maximum vields, but maximum profit, is The commercial end of good farming. Big crops
are sometimes produced at a loss. It is the long-
term atorner term averace that counts on the balance sheet.
It is poor economy to devote fifty dors. of manure, cultivation. seed, etc...to dollars' worth dollars' worth. of wheat or corn. Yet, we have lanown furmers to win local farne as "good wheat ing big wheat crops by bare-fallowing and excessive manuring. A farmer of this species was once hoasting of an emormous yield of wheat that he course, in expletives, "the greatest erop ever etc. " "hur," sid he, "it ought to be good, for
I cover." it a font deep with manure." "Well," 1 coverul it a font deep with manure." "Well,"

## The Seed Control Act.

Editor " The Farmer s An
Noting an article in your issue of March 2:3 page 510, "A Amendments to Seed Control Act." I would like to know who can clearly understand such?
diction; and I think the best way would be for the IIon. Mr. Fisher to take over the whole business, as he knows all aibout it, and then the public would have pure seed, or else be abe to know the It is not particularly elevating to feel that at any time you may be made a criminal of, and so advertised, notwithstanding that you may be doing your best out of supplied with to make a satisfactory showing. I maintain that the farmer that is worthy the name, and hast as competent to select what he wants for seed, perhaps more so than the Government, or anyone else, for that matter; while the
farmer who doesn't care, likely has his land full of all these weeds to start with, and they are going on reseeding thas he may get in seed he
seeds more or less than her huys will not count for very much one way or the other.
[ Note-Impeachinent of the Seed Control Act on the ground of a lack of clearness, is fair an proper. We find a the Act that was oricinally ourselves. We are informed that at was originally
drafted in plain English, but, after it was clothed in legal language by the law clerks of Parliament and the Department of Justice, so as to abridge the technicalties of the court, its own sponsor al
most despaired. We must remember, though, that it treats with the technical subject of an intricate trade, and the finishing touches, especially as to exemptions, etc., were put on by Parliament itself, so that it is not strange the average man inspectors
difficult to understand. However, the inspet difficult to understand. However,
and other officers of the Seed Branch are always glad to explain in print or orally the meaning of any clause or clauses. By chants have managed to avoid serious embarassment, while the Act has been of immense value in securing to careful, as well
as careless, Canadian farmers better seed than as careless,
they would otherwise have been likely to obtain We cannot agree that "Any farmer who is worthy of the name is competent to select what
he wants for seed." he wants for seed ot pretend to be able to detect and identify new weed seeds so well as the Gov-
ernment experts. Accordingly, we are buying our ernment experts. Accordingly, we are
seeds according to sumple, and sending the samples down to the Seed Laboratory at ottawa for free
examination, and report upon purity and germiexamion. We advise every reader to do the same.
nation.
-Editor -Editor 1
One of the first things being done on " The Farmer's Advocate " farm is to trim down the of eight or ten acres, fence it off, and keep stock out till it reseeds itself into a vigorous thicket. On some of the larger open spaces Nature may be
assisted by planting select species.

## HORSES.

Welsh and Shetland Ponies. The increasing interest in and demand for
ponies at present prevailing, especially in the some extent on the farm, as well, as a luxury for cnildren, will justiry the using of a little space
 "Horses of the British Empire.". quoted Velsh pony the hardiest, most active, and proba ly the most intelligent of his kind. The climate of the Welsh hills during a great part of the year
s rigorous, the herbage is poor and scanty and rigorous, the herbage is poor and scanty, and
he grounds whereon the ponies run are always the ground whereon the ponies run are always
rough. and often treacherous. Foaled in the ontes its dam and shares the wanderings of the ditove from the day of its birth. Its life from the hour it stands upon its feet is one long education in thus it acquires an activity and sure-footedness which is foreign to the colt foaled in the stall or paddock, which is never required
imbs, save on smooth ground from which has been removed every object against which it might injure itself. Such shelter as the Welsh pony may find from the storms of winter is of nature's providine, the leeside of some hiecipice the protection he gets or requires. To the healthy conditions of their lives, breathing the purest air, drinking the purest water, and ranging over the
wide tracts of country to find food, these ponies owe their immunity from disease; the soundness of their legs and feet is remarkable; they never become roarers; and display a power of resisting
disease that is not possessed by any domesticated breed of horses. eleven hands; one of twelve hands two inches is regarded as very large, and this is the maximum height recognized in the pure breed. ponies with Hackney sires, has proven a very satisfactory horse for general purposes in Wales, hands 2 inches ; active and quick-stepping, they carry their owners to market with supplies, and perform min chertiand pony as

The Shetland pony, or Sheltie, as it is more amiliarly called, takes its name from its native home, the group of islands known as the Shetlands, which constitute the northern division of
the County of Orkney and Zetland. Shetland is a poor country, and, except in certain favored
localities, vegetation is of the scantieat description. The Sheltie is the smallest of all British ponies. Indeed, it is doubtful if there is a breed anywhere in the world that can equal them in this respect. The smallness alluded to, however,
refers to height only. In size of bone, compactrefers to height only. In size of bone, compact-
ness of form, muscularity and strength they will ness of orm, muscularity and strenth favorably with many others even a hand taller. The true Shetland is short in the les, with a broad, muscular back; and, as far as
constitution and power of endurance is concerned, is unsurpassed by any other breed. is "The prevailing color of the Shetland is black,
known as shetland black, a lighter or a
more slaty hue; browns, bays, duns, chestnuts and piebalds are also common. The three latter
colors, however, are not much in request, and, by careful breeding, may be got rid of. ". The Shelties range in size from 9 to 11

hands. When care and selection are exercised in | hands. When care and selection are exercised in |
| :--- |
| breeding, the average will not exceed 99 |
| hands, | but in ordinary circumstances, where indiscriminate mating is permitted, it will average $10 \frac{1}{3}$

hands. This is the extreme height at which a pony is allowed to be registered in the studbook. The pony lives to a great age, thirty years being The photocraph of a mare named Topsy appeared The photograph of a mare named Topsy appeared
in the Scottish Farmer in July, 1899, when she was 41 years old, and she survived for three years after that, or until she was 44 years. has been tried, and when done where the ponies can be housed and well fed, excellent results have heen obtained, particularly with the Hackney crossing any mountain breed on its native beath cannot be too strongly condemned, as it impairs bulity natural harimess, and lessens their adapta hility to the climate and conditions under which

## Judging the Draft Hopse.

 Horse-judging is an art that some men are born to, and are naturally expert at, and which others acruire by study, practice and experience.Not all men become expert, no matter how conscientiously mecome expert, no matter how conthey acquaint themselves with the points of the horse, the types of the breeds or the use of the powers are for the reason that their observation to become proficient in sizing animals up, in comparing them in general merit, or in points of merit or demerit between individuals. It is an measure, reasonably proficient in, providing he takes advantage of such opportunities as offer for counparing animals one with another, and has The judge, first of all, needs to have an ideal in mind, a picture of what would constitute perfection in a horse of the particular class the be best acquired by familiarizing This ideal may appearance of horses that are recognized as representative specimens of their kind. Observing closely the kind of horse that judges of re ring, is the most practical way of forming opinion as to what constitutes nearest to perfection for each particular class. These observations, photontraphs a study or types and forms from cepted high standard in their class, should furnish a man with a good working ideal to follow in comparing the merses in a class of some numbers and in deciding which one comes nearest his notion of the ideal, where and why it is meritorious, stitutes perfection far fals sh The beginner in the study of animal exterior most quickly acquires the art of "sizing up," if he trains himself to the systematic observation that the "essentials'" beco so arranges his wor mind, and if he learns to go over a horse in such a


Welsh Pony Stallion, Bledfa Shooting Star
way that the component parts are considered in shoULDER - Moderately oblique from way that the component parts ant is overlooked. $\begin{aligned} & \text { above downwards and forvards and } \\ & \text { order, } \\ & \text { this ind ind the chief purg important in } \\ & \text { heavily } \text { muscled; the muscles covering }\end{aligned}$ This is the chief purpose in practicing with the
score-card, to arrange a method of observation score-cara, to arrange a methoo or orsservation.
This is unnecessary atter ne has become familiar
with the retative values of " points," and has with the relative values of "points," and has
achuired the faculty of making in his mind the acquired the fiscrimations between animals which he learned to express on the scor-ecard in figures. At the
start of aystematic study of horse-judging, the start of a systematic study of horse-judging, the
score-card is helpful, but in work in the show-score-card is helpful, but in work in the show
ring or elsewhere, its use is rarely resorted to To the expert, score- card judging is cumbersome, and, when the finer points of judging are con be relied on
For the use of the beginner is reproduced here
a score-card, the production of Dr. J. H. Reed, v. S., of Guelph, which has found general favor throughout Canada; also a hali-tone reproduction lrom a photograph or a typical heinty-d of this type of horse. The subject in this case is the world-famous Clydesdale stallion "Oyama," ${ }^{\text {a }}$ particularly good specimen of the draft horse
as developed after the ideals of Scotch breeders. STANDARD OF EXCELLENCE FOR CLYDESARD OF EXCELLENCE FOR Scale of Points.
$\underset{\substack{\text { Possible } \\ \text { Stent } \\ \text { Score } \\ \text { dcore }}}{\substack{\text { St } \\ \text { St }}}$
HEAD-Ear of medium sizs and pointed cranium nicely rounded; forehead brood and nanal bones straicht: nostrils large firm and fexible; muzzle rather small mouth of medium depth; lips compac muscles of cheek well developed and prominent, space
lower jaw wide at angles
NECK-Ot medium length, deep and ful Where it joins the body, being con-
tinueus with the withers without any tinuous with the withers without any
line of demarcation; crest well devel oped, well arched, broad and strong, but not so heavy as to turn to either
side : tho whole neck to be well and side ; the whole neck to be well and
prominently muscled, surmounted by a good, full mane of hair of good quality, and attached to the head in a graceful manner, not too thick and
neavy at the throat ; the general apheavy at the throat; the general ap-
pearance of the head and neck to be pearance of trongly masculine
stan
withers and back-withers in line with the posterior part of the upper
border of the neck tolerably hivh rather broad and well muscled; back straight and rather short: loins broad,
strong and well muscled strang and well muscled ................ CROUP-Rather long, well and pron-
inenty muscled, not too drooping, dock coming out tairly well up and well clother with straight and not too coarse hair, and well carried............. CHEST-Ribs long and well sprung, with
well marked angles; talso ribs long, weep through girth; breast broad and
the blade thoroughly developed and
prominent promine Elbow-Strong and muscular, and at
ting closery
to FOREARM-Large and strong; rather short and well clothed with prom inent muscles extending well down the
limb limb NEE-Straight and well developed, and ENEE TO FOOT-Canon
ghort, broad, strong and flat, with an short, or oad beefroess, ligament and tendons well developed and not too much
tied in below the knee; skin lying close tied in below the knee; skin ying clos
to bone and tendon; the posterio border of the limb to be well feathered with a moderate quantity of straight
silky hair especially in the rexion silky hair, especiall woolly, or coarse
the fetlock (wayy, wormen hair very objectionable). Fetlock joint large and strong; pasterns of mediun
length and well marked oblicuely
 with good, strong and moderately deep wall, sole not fat; frog well developed and strong; heels broad and strong and
not too deep. There must be an ab. hot too deep. There must be an ab
sence of an appearance of hardening o sence or an appearance laternal cartiliages
thickening of the Must not turn toes either in or out
when standing: must stand straight. when standing; must stand straight
with teat firmly planted, not too tar apart, nor yet very close together Feet must be of equal size. FAUNCH-Strong and heavily muscled thick throush ham; quarters broad and STIFLE-Strong, compact and well mus-©SKiN-Muscle strong and prominen and extendirs, well down the limb: bon large and substy
inent and strony Hock-Large, strong and well developed in all directions: an absence of coarse ness and putiness; point well developed
and posterior border straight. stand with hocks fairly well together, but straight носк то FOOT-Canon bone broad. fat, strong and rather short, ligamen and tendons well developed and strong
and not pinched in below hock : an absence of beefinesss, skin ying close
to bone and tendon; limb must be be to bone and tendon, limb must be feathered on the posterior border with
hair of good quality, the same as fore limb. Fetlock soint large and strongs
limaterns of medium lenth and well pasterns of medium length and well
marked obliquely ......... OTOR-Bay, chestnut, brown, black, NoLOR-Bay, chestnut, brown, black,
roan; gray with reasonable modifications; reasonable white markings not


FOOT-Smaller, narrower and more concave in sole than forefoot, wall strong and moderately deep; frog well de
veloped and strong; heels broad and strong, and not too deep. Feet must
be of equal size ...................................
sKIN-Soft, mellow and loose, not like parchmen
EMPERAMENT-Energetic, docile ; not
STYLE AND ACTION-General appear-
ance attractive; movements firm, smart and elastic; must be a good walker,
all joints moving freely; knees and pasall joint hocks and pasterns well flexed, showing the soles of the feet quite plainly; must not roll or paddle
with the fore feet, but lift them smartwith the fore feen the ground, fetch them forward Iy from the ground, $\begin{aligned} & \text { in a straight line and plant them firm- }\end{aligned}$ ly, must not go wide with hocks or hind feet, nor yet close enough with
the feet to interfere. In a trot these movements to be carried out in a more
 wards.
HEIGHT-Say 16 to 17 hands............
SYMMETRY - All points well propo

## SYMMETRY - All points well propor-

 The desirable points in the mare or gelding of thesebreeds differ from those of the stallion only in the absence of the masculine appearance noticeable in the head, neck and general physiognomy. The head lacks
this nppearance, which is more easily recognized than this appearance, which is more eastive in general, nor
described. The neck is not so massive the crest so highly developed, the withers not so broad, nor so heavily muscled. In temperament ther
is more docility. The weight is usually less and the is more docility. The weight is usually less and the Student's Name


## DRAFT TYPE

The draft horse should be massive in form compact. and blocky in body, and stand on short
strong litubs. There should be a blending of strong lirubs. There shourportion. In weight the class may be grouped into two divisions, heavy and light. should weigh from 1600 pounds, and a light draft from 1,500 to 1,600 pounds. The height is not so material, provided there is the necessary weight to go with it. Draft horses usually
stand froin 16 to $17 \frac{1}{2}$ hands. Substance is de termined from general appearance, weight and height, and from the size of the bone. Quality is judged from smooth boues, neatly-turned joints lower limbs free from superfluous fleshiness, an from the texture of hally go with poor bone and poor feet. Action is not a minor point. Upon the way he propels himself depends a good deal the wear ing quality of the horse, not to meace of mind that a clear-away straight-goer produces in his drivers. The limbs should be carried forward true and straight, the feet picked
up with snap and energy, whether at the walk or up with snap and energy, whether at the wor ex
trot. High knee action is not looked for, ex cept by cranks in the matter of a horse's going Knee and hock action should be free and easy horse should move his limbs forward straight in line, without throwing the front feet out or in, or "sprawling," with the hind limbs too far apart. He should be an active walker. To b
sluggish at the walk is a serious defect in an ani
mal that does most of his work at this pace. mal that does most of his work at this pace. MEASUREMENTS OF DRAFT HORSES. The fullowing draft-horse measurements ar
taken from a report of the Ohio State College Agriculture a report of the Ohio State College of results from a study of a considerable number o drafters

Class of Draft Horse.
x. good. Med. good

| 1613 lb. |
| :---: |
| $16 \frac{1}{2} \mathrm{hd}$. |
| 1679 lb |
| $16 \frac{\mathrm{hd}}{}$ |

$16 \frac{1}{2} \mathrm{hd} .17$ hd.
67.8 in. 68.85 in
67.8 in .68 .85 in
33.5 in. 34.12 in
87.8 in
33.5 in .34 .12 in
90 in .87 .8 in.

The Points of the Drai Horse Clydesdale Stallion, Oyama.

Cow ary $H$ Her Care at Calving


## tuts thenal the parturient

 her ar handed at this time or and, and ins durng the lollowing lactation It is mperatue that we do more than give them proper care just at this time and after; we
must alsun proper care previously. On this
 arge maic. luat also tine development of the calf, ion perioul.
Durin
the last
two months of the gestation Deriori, the fotus is exerting a decided drain on
the dam, and the heavy producer deserves and abthe dam, and the heavy producer deserves and absoluty needs some to store energy, to be expended in the
dition, und to
We should en fllowing season's production. We should en dieavor to give the cow elight weeks rest, shle. Just here I would interpolate that, in managing cows of large production, I think it much bet-
ter to allow them a period of twelve, or, preferter to alluw them a period of calves. If a
ably, fourteen months bet ween calves. shorter time is allowed, it is often very dimicult
in get a real good cow dried off in time to have any rest, and in this case the dam and the calf as a producer and breeder is shortened. Aside from the benefits enumerated, resulting from a
short. rest and improved condition, cows in best short. rest and mucroved condicentible to disorders in general at this time, and can be put on full feed and got under way alter Cows in high condition, however, require very careful feeding previous to freshening und immediately after. Such cows wili show wonderful utder in regard to selecmust he handled interigently given, and to the care and handling of the udder ; still, these cows with large. sweled in poorer condition, whose udder than the cow in poorer condition, whose
will also. of course, contain much swelling and inflammation.
If we were fortunate enough to have the cow
and 3ried off for a few weeks, we shound have forming con-
liberally on feeds rich in flos. st ituents, such as cornmeal or barley chop, etc., with bran, in order to make the most of condition.
it our disposal' to put the cow in best con at our disposal to
This feeding must, however, not be continued too This feeding must, however, hot should be very
long. The heavy meal ration innch decreased, and changed to bran, chiefly, with a little oat chop or oir. cake, fromen if feeding
fortnight previous to freshening. If heavily of silage, the amount shomld be lessened very considerably, and in its stead, roots, preferably mangels, substituted. The feed the uder develop-
should be largely governed hy the should be arl feeds used should be of a laxative
ment, an? all
 upon the digestive system. This apppies att calving, as weratures, with the bowels moving freely, are the conditions of health the herdsman should
pim at in feeding. Silace (but not much), clover eim at in feeding. Silace (but not much),
hay, roota, and, if possible, some bran, make an
hacollent, combination; while, after freshing, for 48 hours or longer, I consider best-quality clover

## LIVE STOCK

Raising Calves from the Factory In raising calves, we let them, suck for abour
routs be added, and oat chop mixerd with the hat bran mash, using a gallon oi bran, filling the arail up with water, and a pinch of sath at this time When this is considered necessary at any time, I find two pounds epsomi salts, one porly a ail of water, given as a drench, most effective. This mas seem like a lot of waste, but I find that is used. It not infrequently happens that a case of malorimation or wrong presentation occurs, ant man arly and before trying home remedies or acting on the suggestions of neighbors. This point cannot he emphasized too strongly, as doing otherfair chance. But, aside from this trouble, the cow is subject
t.) many other ills at this time. Parturient apoplexy, or milk fever is a disease to which our largest producers are particularly subject. The feeding before and after calving. It is very imfeeding before and aiter calving. Ioose, while, as well as proper feeding, exercise is a great aid to this condition of digestion. The practice of misking a cow immediatery the an attack of milk faver. Drawing a large flow causes a great rush of blood to the udder, and often the disease follows. As a preventive measure, the udder should
be milked out only partially for the first three days It usually begins to show itself about 12 hours after the caif comes, the first symptoms bo-
ing a reiusal to eat and a general uneasiness. In ing a reiusal the cow gets down, loses the use of her limbs and the muscles of her throat, and be comes unconscious, death ensuing in a few hours
more. When one has any number of well-fitted more. When one hns any number of well-fitted,
coord cows, he should by all means be provided gor a milk-fever outfit to administer the air
with a men monderful cures have been
treatment. Such treatment. Such wonderful cures have been ivought none of its terrors for us. The bicycle pump has been frequently used successiully, There is always some danger from the or unsterilized in with umsters, and, as a safeguard, it is wise to use struments, and, as a sateguary a veterinarian. Garget, or caked udder, of one or more quar ters of the udder while very seldom causing the loss of an animal, in a great many cases it seriously impairs the cow's future usefulness as producer. At calving time, the udder is especia all susceptible to attack; an excuble. An attack may result from any one of many causas, as, for instance, taking a cow from a warm stable to one if a lower temperature, or pacing anyden change to heating or constipating food, as well as lying on a colli, damp or hard floor, such as a cement floor, not properly bedded down, are have suffered some injury from a bruise; while, milking, improperly done, or at irregular may develop to any as exciting causes. Gerfarget natural swelling of the udder after calving, to gangrenous infection and death from hlood poison. Simple infammationand caking of a quarter or should have prompt est type of With the feed right, and the bowels
attention. Wilige bathing with
inoving freely, frequent diligent bit

mbing Pens in Use
Hand Encland.
water as hot as the hand can bear, with a little
turpentine i solution, is often effective. Mas saging stivuld always be done with the use of goose-oil or vaseline freely rubbed in, but this is not neariy so effective as the hot-water bathing
The milk should be drawn frequently, being care ful to get the last drop each time. With this treatment, the affected quarter or quarters may But, if only a slight improvement is realized, by continued milking and massaging, the end of the lactation period will in many cases find the quar cases no cure can be effected, and the parts remain useless for life.

The retention of the placenta, or afterbirth ery frectuently occurs. This condition is some of moving the cow just before calving to another stable should be distouraged, for, aside from the great daniger of lower temperature, new surround ings tend to agitate or excite the animal unduly
and this nervous state often gives rise to this trouble. A draft of cold air, even in her own stable shoulc by all means be avoided. With ally refuses to conne, having become fastened na t:artly, so to speak, during the period of gesta tion. Many practice the removal of this by hand in some iustances, by those who know something
of the internal orgaus of the animal; in many other instances by those who know absolutely nothing of this. Unquestionably, from this cause alone many good cows are ruined. Personally, any but qualified men to tamper with. In our own herd, nature is allowed to take its course assisted by three 25 -drop doses of carbolic acid of disinfectant around the animal, and, after the removal, which will not be later than the ninth day, treating her with some good reliable anti-
septic and tonic for tliree weeks. We find this septic and tonic for three weeks. We hind and
method protects our cows against sterility, and metminates danger of blood poison. Don't, unde any circumstances, be so brutal as to pull th
aiterbirth, or hang weights on it. We always give each cow a roomy, comfortable, well-bedded box stall of the same temperature as
the stable for a few days before calving and a few the stable for a few days before calving and a few days after. A man should be present at the repress any attempt at inversion of the uterus,
in which case careful watching will be necessary in which case careful watching will be necessary
for a little time. The calf is allowed to remain with its dam for twenty-four hours; this is only nature's way. Exercise is essential at this time allay inflammation of the udder, but should b allay inflamm
taken indoors $\qquad$
Would License Only Sound Pure breds.
Since 1893 the Province of Manitoba has had a Stallion I. icensing Act, which stood practically conprehensive measure was adopted, embodying most of the provisions of the old bill. Stallion
legislation has also been in force in what used to legislation has also been in force in what used to
be the North-west Territories, and in British Co-
lumbia. At the last session of the Provincial lumbia. At the last session of the Provincia
L.egislature, the Horse-breeders' Asociation o Nanitoba presented a more radical boll than the
Act hitherto in force. This was introduced in the Act hitherto in force. This was introduced in the
Legislative Assembly by Hon. R. P. Roblin, Pre mier and Minister of Agriculture, and was re to license none but pure-bred registercd harses
that passed an official veterinary inspection certi fyaing them to be free from certain infectious, con-
tagious or transmissible diseases or unsoundness"s. The Act would make provision for the stal-
lion owner to file a lien for service fee upon any colt got hy his horse, but it was expressly provided in the bill that no grade stallion travelling should have any bills or cards printed or posted
up setting forth his breeding, nor should the "wner be able t". "hatre or collect a fee.
The thal was 1.egislature in
whole then............. the committee as a Association "ns
for the vitullunced in asking
 deferred for
deferred for
societies of
expression for
breeders
breeders" Ass
ture of the bil
ture of the bi
ing to send the veteri
rotests to be settled ins
appointed by the stallion
appoint
hy the
other
other two.
has hean prepared for the more ra
all came into force till 1914, by
dispose of them, it would seem that public opinio should sanction the proposal. Hereditary un-
soundness should disqualify any stallion, and rarely, indleed, should a grade sire be used if a food specimens, and an occasional one gets good stock, but the chances are strongly against it, as 2 rule. We may well consider whether a farmer who would deliberately choose grade horses to
save a few dollars in service fees should not be save a few dollars in service fees should not be
protected from his own folly.

## THE FARM.

## Corn Markers.

A request has come in from a corresponden narker. Descriptions and of a four-horse corn ont styles have from time to time appeared The Farmer's Advocate. We give at this lave a marker which they consider better than

sketch and description of it for publication. No
1 is light, and, though not so steady-running 1 is light, and, though not so steady-running as
the sled style, is more easily handled. Two do ided improvements raight be suggested for this implement. The teeth, presumably, are of steel, nd could make at best but an indistinct mark
f-as is done by one of our subscribers-shor wooden blocks, two or three inches in diameter had a hole of the proper size bored in the cente to each tooth, the marks made would be easily den, and, the teeth being springy, the implement or ridges. The other improvement would be to
have one or, better still, two handles placed each enti, instead of in the center. If that were
lone, with one man to lead the horse, and anther to guide the marker, with the inner tooth When he doesn't lead the horse straight, the marks onld he kept
can be folded when not in use, and the hrs may be folded up when turning, In improvement on vis., is "stons wach used in Figin Co. Ont. Thi line mode b, the tracher or built.

Faip Building with Cipeulap Roof We purpose erecting a building next summer
for use at the fall fair. It will be what is callesf the "Main Building," for exhibiting everything excepting live stock. We have decided to build a filding 100 feet long by 50 feet wide, and wan building to be supported on the foundation walls. Some of the committee have proposed to build a concrete wall $100 \times 50$ feet, by 10 feet high, and use a plank frame for the rest. We want
broken hip-roof. Whether would the cement o wood be cheaper for side walls, say, 10 feet high Providing we build the wall as described, and the balance plank-irame, would you kindly give an estimate of the cement wall? We can set rourh lumber at $\$ 1.5$ per $M$ and may say gravel roug half mile distance. The openings will consist o This build and twenty ordinary-sized windows, judging classes, auction sales, etc. $A N D E W$ KNOX A building with circular roof and dome ends would meet your requirements, and cost less than any other, besides being strong and pleasing in appearance. The inside being circular at each end, is of the best possible form for showing up horses, etc. - The ribs are made of two thicknesses of 2 -in. $\times 10$-in. x 10 ft . plank, and are on 4 -ft. centers, thus allowing of 12 -ft. lumber being used in
boarding in roof and sides. The end ribs set about 7 fit. apart at hottom, and all run to one point against side of end rib of main roof at very
center, like a lot of large hip rafters from a circuThe planks hreaking joints, and are bolted and spiked very
securely torether securely tigether.
The sill is built of two thicknesses of $2 \times 10$-in. planks, which are bolted securely to cement or
stone wall, or in some cases to concrete or wood piers.
The tills and bents are tied and trussed with and cheap, considering the span they cover, strong an entire open space $50 \times 100$ feet, without a single obstruction from floor to roof, except these few The vault-like ceiling, being smooth and high,
without corners, causes a band to sound at its very best, the height of this ceiling being 25 feet, if simple circle is used, but the sides can be
raised to any height, and this roof thrown over The work of framing is very simple, and quickly done; but, if convenient, it would be possibly
money saved to employ an expert to instruct the builders for a day or so.
If the Exhibition Association decide to go on with this form of building, 1 will be pleased to submit drawings for publication, if the editor
cares to give the space in " The Farmer's Advo But, as this style of construction is not of
much use for farm building. I do not think it adisable to take up valuable space with drawings intil the society have decided to build after this The following is the bill of material, and might add that anyone desiring to see one of
these buildings can see the Ormstown skating rink and the Huntingdon skating rink, both
of whick. I designed. Also, the Colosseum in Montreal is after this design, whe an anseum
structed span of 100 feet, ho 50 feet high. bill. OF MATERIAL FOR BUILDING $50 \times 100$ 14 main rits, 16 pieces, each 2 in . $\times 10$
in. $\times 10 \mathrm{ft}$. $=2 \mathrm{~m}^{2}$ pieces 20 half rits, 8 pieces each, 2 in. x 10 in.
$\times 10 \mathrm{ft}-160$ pieces

 sills 2 in. $\times 10$ in. $\times 14$ ft., side 360 ft 17,320 ft O) sumates romfing iron, at $\$ 5$ …………... $\$ 267.60$
 mon the 5 -in. nails, at $\$ 2.65$ nails, at $\$ 2.80 . . . . . . . .$.



## Wants Govepnment Ditching

 Machines.Prof. W. H. Day. (Bulletin 174 ) says that, atter careur last one-third of the cleared land of the
that at lean Province, or $4,710,000$ acres, is ing urgent annual in
underdrainage, which would bring an underdrainage, whorth $\$ 94,200,000$, and this leaves
crease in crop crease in crop wort
out of the question altogether $5,000,000$ acres of out of tharsh and waste lands that are useless
swamp, mate
heanse to owet for cultivation ; but he says that, because too wet for cultivation, but he says taned
at the present rate, it would take one hundred
ant does it

 to take 25 years? If it idual enterprise and to old methods it will likely
vit vidual enterprise to accomplish, but if it is taken
take 10 years hold of by our Government, and with the steam ditchers, and put through with the energy that
cull bo put into it, 25 years would see a vast could bo put intotter throughout our Province. change tor the be said that such a scheme is out of
But it might the realm of Government enterprise, but we wnderstand our Government to exist the It akes hold
general wellbeing of our Province. It tater general welbeng onterests of our Province-our mineral and timber lands, building of railways, opening up new parts of the Province for settle
ment. development of electric power, etc.-into ment, development
which it puts many thousands of of dollars, and all for the material wellbing of our Province; and which of these, or all or themense and perpetual grofits that the underdrainage of our country will give? The Government did a wise thing to in augurate and carry on through the o. A. partment of Physics the systemathic sure practica
wet lands for underdraining, but we are ly where we were, and are waiting the next move I have realized for many years, though my farm could not be classed as a wet farm, that a bene ough system or underdana
fit, but the thing was to get the system at a reasonable cost, and then get the right men
carry it out, neither of which semem to come my way, until the Government's proposition to meet
the farmers' wants through the O. A. C. Departthe
ment of Physies. This 1 considered a splendid
and proposition, and I made early application, which
was responded to by Prot. Reynolds (by whose was responded to by Prof eys.
suggestion, I believe, the plan was adopted comingau to my place, and not only taking a survey,
iut also giving a public denionstration on underdrainage; and a short time afterward a chart of formation in detail relating to the working-out of the plan. Well, so far, very good, but the next the plan was to get capable men to do the work,
twhing wher proved unattainable. The Government
which has has also another splendid standing proposition,
and that is to advance money at a low rate of interest, and repayment in easy annual install-
ments : hut, to round up this whole plan, we ments; hut, to round up this whole plan, we
think tho Government needs to go one step think tho Grovernment
further to enale e the farmer to put into operation
tee two standing offers now before them, and that is to purchase one or more steam ditchers to be-
cin with, and increase the supply as the demand pin with, and increase the supply as the deman-
for their use inereases, have them properly mantor their pase en at the disposal of applicants, re-
near and
gardless of distance between places. It might be said, perhaps, that a plan of that kind would
interfere with private enterprise, but we don't interfere would materially affect any machines that
thirk it woun ure now in the country; at any rate, there are
some things that can't afford to wait for private enterprise. The same might be said of other pub-
lic works undertaken by the Government. Last spring we made inquiry of Prof. Day ans to the
probability of being able to secure the use of a steam ditcher in the near tuture, and his remp
was that, while several new machines were coming
and heal

 enterprise; the machines go where the best iryill
ise of steady work is offered, and riphty so Then, let the Government take hold of the more
scattered jobs of drainage. A farmer could then make apphication atime agreed upon, and in the meantime get his survey and have the tile on the
pround; and if he needs to borrow Covernment ground; and if he needs to borrow Government
money, he will kow that it can all he usied at
once, and he will get the intmediate benefit of his once, and ho will get the thinediat then, think of the case und pleasure
nutlay And with which land is cultivated under such con-
ditions. We think this a grand upportunity for our Minister of Agriculture We feel comfident that, were a plan
what after the method outlined, a hawn on the agriculture of hew ee such great possibilities in in ....
stead of seeking a living any
sterm, they would he satisfin thorough training ollege, and return to the of farmers would comy
their place socially
politically, or professionally, with any class or



## Experimental Eprors.

By B. Leslie Emslie, P.A.S.I., F.C.S., C.D.A. (Glas.). In, chemical terminology an experimental discrepancy between the actual and detectable results of a test. It is the limit of error permissisuch errors it is not at present our intention to deal, but with the grosser errors, whose enormity, a that they are avoidable and almost unparaor able, approach in degree the sins of omission give, divine., We are ell prone to the former, but, unfortunately, slow to exnibit any ittle spark of the divinity which may repose in our
natures, and if there are any "angels in disguise ", amongst us, the disguise is usually so horough as to defy detection. Well, lest this chousion, let us get down to the hard facts of the present work-a-day evil world. The object of an experiment is to discover some
unknown truth or to establish or confirm this truth. The experimenter owes it to himself and to those in whose interest the experiment is con-
ducted, to thoroughly satisfy himself that he has cot a proper basis on which to make the test and whendeavor to eliminate any undue elements
which might become factors in influencing the re-
A careless experimenter in a position of trust hecomes virtually a " blind leader of the bind, and morally responsibe fir the realized, then, the nec-
his inadyertency, Having essity of exercising the greatest care and prudence
in the conduction of experiments, let us consider the upplication of these principles to those experiments in which we, as farmers, are most intimate y interested, confining ourselves, for the present,
0

ping. farmer's experiments are numerous and varied. A fev of the more important may be
classified as feeding tests, milk-production tests. and crop-production tests. The last embraces ands of quantity and quality of crop yields, as irroduced by difierent variet ies of plants of the
came species, change of sead,
various came spectes, change ond fortilizing cultivation, manuring and For purposes of illustration, we shall only teal
with crop variet ies and fertilizer tests. demand ruuch judicious care, since in both cases it is fundamentally ussential that the plots should be as nearly equal as possible in the nature and
yuality of soil and previous treatment. If the Iand has a considerable slope, we should naturally decide to heve the plots run as nearly as possible parallel with the direction of the slope, so that
the draine in the drainage in all cases might be equal.
The size of the plots is anotber important consideration, and something can be said in approval and disapproval of both Targe and small plots. it is much easier to find equal conditions with hin
a small area; but then, we shall have to be more accurato in details when making our computations at seed time a the crop to be experimented upon might also guide us in this respect. For in-
stance. in an experiment with potatoes, the fail ure of a few tubers to Eerminate would more
seriously affect the ultimate total yield of a smaly than a lurge plet; whereas, with a cercal crop. have hure of a dely lesser effect. germinate would
when very small plots nro prefer to have thall plots are employed, we. would
least two feet in widtharent wh a marh would serve of at at footnath, and at the same time facilitate sealing vorved, besides obveat ing, in the case of the tert
lizer experiments, the blenting at the borders the experiments, the bending at the hortlers.
 the same ocer all Tn fertilier tets. the variols
 sider are the three nitrogen, acit, whos, hat. an potash, and it might be in mitace thl
recognizell hasic plan of experiment
 tharic ary and potash) without wotish, but
$\qquad$
$\qquad$ be augmented
serims or of then

fect of each ingredient applied separately, or arying combinations or quantities of two
more ingredients. If barnyard manure is used a mn adjunct, it is obviously essential to apply
equally on all the plots of the series. equally an all the plots of the series tions to be taken in conducting the experiment tions to be taken in conducting the experimen under imple and self-evident, yet the curious fact $r$ c mains that frequently men of more than avera,
intelligence, in conducting such experiment intelligence, in conducting such experiment
either lose sight of, or ignore, the use of the either lose sight of, or ignore, the une of the
precautions, which is the sine qua non of success We have heard such men explain the superiorit
of one variety of grain over another, in a variet of one variety of grain over another, in a varie
test, as being probably partly due to the fac that the plot on which the highest yield of grain was produced was in a more fertile condition, ha ing had a heavy manure application in the pr
vious season. Likewise, we have known-not one pious seas-fertilizer experimenters state in thei reports that the reason that a certain plot gave such a low yield in compathat a different var ety of potatoes was grown on that plot, this variety being naturally a lower yielder than the
vether. These men are samples of what we should other. These men are samples of what we short
call gross experimental errors.
We could even cite instances of men, posing as We could even cite instances of men, posing as
authorities among us, who will point to the sult produced by the application of a single ferti lizer ingredient, and because the increase in the
yield may have been insufficient to return a profit it that particular case, owing to the deficiency of the other essential ingredients, pretend to de
duce therefrom the fact that the fertilizer duce therefrom the fact that the fertilizer
employed is unprofitable on that crop and soil. An analogy would be represented if the ex perimenter would diet himself for a certain period on water alone, and then, because he did not gain
in weight on his water diet, declare that water was useless to the human system. Likewise, he inight diet himself for another period on bread alone, and, because the results were still unsatis-
factory, declare bread to be unservient to his bodily requirements. But let him try a combined bread-and-water diet, and the results will be very
different. Now, do not show such alacrity in different. Now, do not show such alacrity
iumping at the apparent insinuation that we would condemn such experimenters to a term on bread-and-water diet, with its usuel attributes. Let us ather exercise the iorgiving spirit, and
reform them bv less rigorous methods.
The successful experimenter ought to be careful and painstaking, possessing, besides, a keen ob servation, and yet not depending too much on his
isual powers. or he may fall into error inow experimenters who have had such faith in their powers of observation that, because they could see no difference between the plots of grain without troubling to harvest and weigh the prod uce separately. Now, he is a very clever exper menter who can measure results in this way, for
we have often seen a crop of growing grain wher the difference in growth of the various plots did not appear evident to the eve, produce, after harquantity of grain and results, particularly in the The" residual effects of fertilizers seem to be taken rately into collsideration by experimenters,
and yet how important they are, as we shall endeavor to prove. How frequently we find the
eflicacy of a fertilizer measured only by the sults produced in the season of its application; whereas, if means were taken to ascertain its after effects, it would be found effective for at

least threen subsequent seasons. This is certainly true of the mineral fertilizers, although not in the top soil. Act,", which provides compensation for unextenant of a farm, assumes in its scale of compen Fertilizer applied. Rate of Exhaustion. | Nitrate of soda | On arable land entirely |
| :--- | :--- |
| iulphate of ammonia | exhausted by first crop | id phosphate and $\quad \begin{aligned} & \text { On arable land, } \frac{1}{2} \text { ex- } \\ & \text { hausted by firstlcron }\end{aligned}$ hausted by first crop, and succeeding crop. On arable land, $\frac{1}{3}$ ex-

hausted by first crop, anil $t$ of remainder by each
this table can be seen the estimated materials in a moister climate than ours. uld naturally assume that in this countr . would be even more prolonged. Fertisolution and assimilation, so that in a especially if applied late, we shoull
hem to produce so much effect as the: in our experimental work we ough


$\qquad$

## THE DAIRY.

British Columbia Dairying, and Succulent Feeds.
$\qquad$ best places in the world for the daid for butter
First, because of the high prices paid oper minters and milk; second, our keep cows, as compared make it very er Provinces east of the Rockies ; third, owing to our more humarth, the winter betures are very luxuriant, necessary to stable the
ing very short, it is not net ing very short, it is not
cows as long as !in most places. With the exception of about six weeks, the cows caite a lot of
five or six hours a day, pick up quite five or six hours a day, bed and get a good sun-bath. Fifth,
feed, and
Thousand-headed kale is coming to the front as ne of our succulent feeds. This gives a crop of from fifty to one hundrem this plant, however, the set the best, results from this plant, however, the In a large part of the country, clover is the greatest of all the plants, not only for hay, but is preserved for feeding green Wells, of Chilliwack, the and winter. A. Bank Creamery, and one of
owner of the Eden the most successful dairymen of the Province, puts
his plan for many years, and always finds it quite
successful. On the side of a steep hill he has successful. a pit, with a high earth wall on one side and both ends, and on the other side ie He
fully builds up the clover as it is hauled in. He sends the mower the clover, which must be the the right stage of ripeness the dew and dampness have dried out, which perhaps takes two to thre hours, and are driven on the high side of the pit and it is very easy to unload tramped, and th
clover must be well spread and trand one side must be cut plumb, and the clover kept
tiont against the walls of the other side and the ends. In this manner he keeps on fuang his which until it is about six eet above profitable to pitch his
is about as high as it is phet thirty feet clover. This makes a stack abed tons of good
high, and has over two hundred feed ready for use. Then, whe about two feet of earth on top, and his silo pit is finished. He finds that not more than two inches spoiss on the outside, and that only on the one exposed side. When he wants to start to feed, heot strip of the earth roof, and cuts his strip down as far as he thinks he will require for the day's feed, continu-
ing this strip day by day until he reaches the bottom. He finds that knife. By doing this, but very purpose is a hay knife. Bosed to the air at a time.
little of the silage is exposit.
He does not haul this silage to his stables, but loads it in a wagon and hauls it to a long, open shed which is provided worning, they are turned out to get a drink, and are then let into down or
where they eat their fill, and then lie down for
the remainder of the day. He feeds his hay and the remainder of the day. He Many other farmers in the Chilliwack Valley follow the same
mothod, and all speak well of it. 10thod, and all speak wale has almost displace
Thousand-headed kale hate of Washing
irn silage in the neighboring States of erest method for growing
in and Oregon. The best Th and Oregon. The best metho as follows
This plant in British Columbia is an
ibout the first of January, after the heavy rains over, plow a piece of good clover sod, select
a piece of good clay loam, if possible ; manur Ig a piece of good clay loam, if possible,
heavily, putting on at least thirty tons of harn-
ird manure to the acre. About the first of bruary apply a commercial fertilizer rich in potands to the acre, broadcast. As soon as the dath harrowing with a disk or spate harrow. nut the middle of April cross-plow with spring-
rrow alternately, every ten days, with rrow alternately, every till about the middle of
th or disk harrow, the heart
ne. The land should then in good growing a good crop. Abr May 15th se-
a seed-bed for sowing the kal, seed. This
tom weeds. should be good rich soil. and her from weets.
in drills about 12 incties nuart. Put the
in rather thickly-abont on If inch deep. in rather thickly-abot on an an out. The

## or tranyltant in in in A courd

 an be dure Atiter that the leaves begin to to Couch, shading the ground so much that weods
cannot trow.
About the frst of october the kale is ready to no fold Too tather titetwo men can wagon, and, whilit ono man sticks a fork in a
plant, then other cuts it off with a lonk sickle clase to the ground It is then thrown into the
wascon. TThreo toond plants. weir hhing 20 pound

 hay and some neal. Lrand the kale on the deerres of frost, It lions not seem to afrect the
quality of the milk like turnips, as the condensed milk and butter factories in Washington and ore
fon are quite willing that their
patrons
shall feed it. the beat funh cation for a good crop. Plow in
thanuary haul out the manure as it is made, and put on aboul fiftem tons to the acre. Work the ground up well with the disk and spring-tooth
 check-rows three feet apart each way and drom-
bout five kernels to to the hill.
We always arrow the land as soon as the corn is planted. This breaks any crust that may have formed, and ways good curtuvation. Run the thorse-hoe both high. We fod it necessary to go through the field once with the hand hoe to kill the weeds that the eultivator has missed. When the corn is well glized, and before the frost comess, put in the silo, As gran ithe most oxpeontve part or our than most authorities recommend. $\begin{gathered}\text { R. HaLutiday }\end{gathered}$ Ontario Agricultural college.

Effect of Cream Freezing.
When cooler cans are used in making butter,
toes it hurt the cream to freeze, and how long should milk be allowed to stand in cans to get A. CUNNINGHAM. We have not noticed any particularly bad ef-
fects from allowing cream to freeze, though it is generally considered better not to allow freezing if it can be prevented. "Freezing is supposed to
make butter " crumbly " in texture, whiter in make butter "crumbly in texter, by churning and working properly, using butter coloring judicious ly, and a pure culture (starter) to ripen the cream, these supposed defects may be largely overcome.
When cows are all fresh, and the milk can be cooled rapidly (within two hours) after milking and setting in deep cans, practically all the cream
which will rise on milk set in cans will be up in which will rise on milk set in cans will be up in
twelve hours. However, where some of the cows are "strippers," and in summer when ice is not
available ta cool to 45 degrees F ., or lower, it is wise to allow the milk to set for 24 hours. It is seldom necessary to leave milks set longer than
24 hours, or, at most, 36 hours, in deep cans. The main points for good results in raising cream by the deep-can system is to have cows
fresh, and cool the milk rapidly to 45 degrees F. lower, but prevent freezing, it possible.

What Will the "Average Cow" Do? Dairy farmers are rapidly awakening to the
necessity of weighing and testing each individual cow in the herd. Twenty new cow-testing associations have been organized in Quebec sesce the commenced operations in Ontario, two more in Nova Scotia, and one more each in Prince Ed-
ward Island and New Brunswick. This means at least four thousand more cows being checked up each month, in addition to the 11,800 in 1910 .
Probably many more members will be added this month.
The extension work provided for by the establishment of Dairy Record Centers is proceding in oxford and Peterboro Counties, Ont.; St. Hyacinthe, Que., and at Kensinglon, A superviso has been appointed to extend cow-testing in Brit Some cows have started with excellent records for Jannary and Felruary A 50 pounds of fat, 1,490 pounds of mik, and oord indications of dairy rossibilities for this season. What is the
age " cow intending to do this year?
are age "cow intending to do this year?
Forms for recording weights of milk are sup-
plied ir on application to the Dairy Commission-
er, Otta, When applying, the number of cows ated, and whether

## GARDEN : ORCHARD.

Spraying: Why, When, and How. From the writer's experience at fruit insti
tutes, and from his observations in different parts of ontario, and conversation with fruit-growers the orchard on which information is more de sired to-day than on spraying. So far as pos-
sible, an attempt has been made to keep the fruitrowers supplied with up-to-date information on this important subject by bulletins, spray calendars, articles in the press, fruit institutes, and short courses, but there is constantly need of
presenting the facts in a new light. Consequentpresenting the facts in a new light. Consequontypraying and its importance before readers of "The Farmer's Advocate "in a clear and simple and the best mixtures to use, see the Spray and the best mixtures
Calendar, issue April 6th.
IS SPRAYING A NECESSITY FOR SUCCESSWe have no hesitation whatever, from our own per iments and observations, even without reler"y to the experience of others, in answering
It would be a crime against the public to advocate spraying if one were not thoroughly convinced of its value. There seems, however, Every day, letters are coming to us asking for information on how to spray, and what mixtures to use. Many of these queries come from dis terested in this matter. Moreover, whatever may have been true in past years, it is a rare thing this year to meet anyone who makes light o that only in sprayed orchards need one look for good clean fruit. Hence, thousands of men all over Ontario are planning this year to spray the case that manufacturers of spray machines are finding difficulty in supplying the demand. To illustrate the remarkable progress that is being prince Wdward County Four years ago ther were not more than hali a dozen men who sprayed their orchards. This year I was informed, when en county, that neard this is all due to the $r^{-}$ sults that they have witnessed the last three years rom careful, thorough spraying on the part of a The value of spraying is also well attested by he fact that we do not know of a single really successful fruit-grower of high reputation to-day who is not an enthusiastic advocayers, who should certainly know whai they are doing, passed a resolution last November at the Fruit Exhibition onger tor to the effect thy man who did not That our orchards are badly in need of spraying, is also clearly demonstratco that less than 10 per cent of the total apple crop of Ontario last year graded as No. 1, and the year before this, we have seen well-sprayed orchards this year that graded at least 75 per cent. of No. 1 apples,
and we have been informed of others that went as high as 80 per cent., or even higher

REASONS FOR SPRAYING. There are three great reasons ior spraying:

1. To keep the trees healthy and vigorous so that they may live longer and bear better. 2. To prevent the fruit from fall. 3. To keep the fruit tree from injury by either high and bring a high price. HOW SPRAYING HELPS TO KEEP TREES HEALTHY AND VIGOROUS. In addition to the insects and diseases that ent insects and diseases that attack the trunk, ent insects and and on the trees. San Jose scale
branches and leaves of is found in hundreds of our orchards, from sarnalmost every unsprayed orchard; blister mite, during the last few years, has spread to numerous orchards in almost every county, and incers, cankery increasing ; inval other biting or sucking inects are always more or less prevalent. attaching of these, such as the scale trunk and branches, cause a great drain upon the strength of the ree, and sometimes even kill aris Blister mite
by attaching the foliage. In the same way, we
have fungous diseases, like black-rot canker, al ways ready to get into injured places, such as
wounds or sunscalds, and, by gradually extending wnto the healthy tissues on each side, at last completely girdle the part, and thus cause ail the
portion above it to die. This disease is frequently the cause of the dead branches one sees
on trees. It also, in some cases, kills the whole on trees. It is is true especially of districts east of Toronto. Apple scab regularly attacks the leaves
just as severely, or even more so, as it does the just as severely, or even more so, as it does the
fruit. and causes dead areas in them. This last season much of the sickly-looking foliage of trees
was caused by apple scab. Now, we often fail to was cognize how important the leaves are to a tree. They are not only breathing places for the rest of the tree, but they are also the part wher all, or almost all, the food of the tree is mane
factured. Along little tubes or vessels in the factured. Along istle tubes or the leaves. Her in the green tissues, by the energy supplied by
the sunlight, it conibines with gases taken in out the sunlight, it conibines with gases taken in ou
of the air. and is changed into sugar and starch and is then distributed to every part of the tree where food is required, and is also stored up for the next spring's growth. It is onty the green
part of the leaves that can manufacture the food, part of the leaves that can mandacture insects or disease, by lessening the green area, also lessens
the amount of food supply for the fruit and for the amount of food supply for the fruit and
the whole tree, and thus diminishes the profts o the whole tree, and thus diminishes the
the owner. Most of this injury can be y thorough sprayin
How spraying helps the frut to
In many districts this last season the only orchards that bore a crop of applea were the well-sprayed orchards. In other orchards the
fruit almost all fell early in summer. Every one fruit almost all fell eary in summer. ave who attended the demonstration in the orchard of M. C. Smith, at Burlington, on September 7th, last autumn, mus have been iorcibe way the fruit hung on Mr Smith's excellently-sprayed trees, compared with yards away. There were scarcely any apples yards away. the latter was almost covered with fallen fruit We do nut claim that this was all due to spray-
ing, because cultivation helps, but even sprayed ing, because cultivation that spraying is the matin factor in keeping the fruit on the $t$
are several reasons why it does so :
several reasons wrols apple scab, and apple cab is one of the main causes of the early dropping of fruit. The reason for this is that the spores of this disease are carried from old leaves spring, and begin to germinate about the time the blossoms are bursting. If the season is damp and cold, and thus favorable fore not sprayed with the fungus, and if the trees are not sprarst, the scab soon produces a host of new spores, which spread overywhere, and, by alighting on the stere of the young forming fruits, begin o grow, cuts of the supply of food, and then the young fruit
falls. This shows the great importance, in wet, cold springs, of spraying trees just before the grower iollowed the advice of some well-meaning but mistaken friends, and omitted this application, and trusted to the application just atter the
blossoms fell to control the scal, as well as the codling moth. I visited his orchard in July, at his request, and found his all the fruit on the ground. He estimates that his inistake cost him
about $\$ 1,000$. He will not omit this application a. The codling moth and plum curculio are reat causes of the premature dropping of fruit, inence, by k
assists grea
2. Spraying, as mentioned above, helps great3. Spraying, as mentioned above, helps great-
ly to keep the whole tree vigorous and healthy,
and thereby gives the fruit a better chance to remain on.
How spraying gives chacan frutt. It scarcely seems necessary to go further into irable, however, to add that, in the case of diseases like apple scab or brown rot spraying is once started, as it does in the case of insects, but
our whole object should be to apply the spray at he right time, so that the shance to srow. oerience has proven that if the leaves or fruit
are covered with lime-sulphur or Bordeaux mixure at the times indicated in the Spray Calendlar, the spores and. therefore, both leaves and fruit the kept clean and herely prevents the spores from yotíing a foothold.合

## Common faults in spraying.

 There are a great many men who do not get nearly so good results from spraying as theyshould. This is because they have not sprayed intelligently. We must not expect spraying work miracles. It will not kill an insect unless the insect gets the poison into its body. Insects no not seek the poison; the poison must be placed wherever the insects may be. unless the leaf or diseuse for ruit is covered with the spray, We find, there
fore, the following common mistakes made in spraying

1. It is often done at the wrong time. This
is a very grievous mistake, and often means that
time and material are wasted. It is absolutely essential that the spraying be done at the times indicated in the Spray Calendar. EspecialMy is this true of the second and third sprayings. More latitude mayortance of spraying at the right time, it is only necessary to mention the codling moth. There are only ten days, at the most, in sprayed for. and these are the ten immediately after 90 per cent. of the blossoms have fallen. At the end of this time the calyces have closed, and it is impossible the insect cannot be controlled. What has been said about apple scab above also shows how important for this disease it is to spray at the right mite or oyster-shell scale, it will be found that far better results will be obtained by giving the first application as near as
possible to the time when the buds are ready to possible to the time when the buds are ready
burst, or are actually bursting, than earlier, 2. Many men fail to spray thoroughly. They want to keep down expenses, and, by making one four barrels ought to be required for, they simply throw their money away. It pays every time to spray thoroughly in inct, the chief reason
poor results, in nine cases out of ten, is lack of poor results, in Do not leave a tree till every leaf and fruit is well covered. Let thoroughness if your watchword. Insects wis not ke killed eases will not be prevented unless the fungicide is on the leaves and fruit to prevent the spores germinating. Thoroughness is true economy. keep them so poorly packed that they cannot get sufficient pressure to scatter the spray properly Have as good a machine as you can afford. A
barrel pump costing about $\$ 21$ will do for about five acres of orchard; but, for a larger orchard, a better pump is required. Do not expect even a than 10 or 12 acres of apple trees over 30 years of age. Kieep the pump well packed. Use a
tower for tall trees. about 100 pounds. Nesesure, if you can help it and higher if possible. Clean the pump out by
running clean water through it at the end of each day's ${ }^{\text {w }}$ work.
2. Sometimes one forgets to keep the liquid well agitated. This is very important, especially when a poison has been added, because even ar
senate of lead will settle to the bottom of the tank, unless well agitated, and, therefore, the first few trees will get all the poison, or nearly all,
and the rest get none. Good agitation will re and the rest get none. for every tree.

We are sometimes asked whether it is wise to
spray in a high wind. Our answer is, yes, go spray in a high wind. Our answer is, yes, go
right ahead; the wind will help you, especially in the case of large trees; it gives extra force to
carry the spray to the furthest hranches. One
should always spray with the wind, except in the case of very small trees. Try to spray two if the wind does not change right around, you
may yet be able to take advantage of a partial
chance to finish out what wac left change to finish out what was left.
Will rain coming soon after the spraying re quire that it be done over again? No, not un
less the spray has not had time to dry before the rain cance, it will usually dry in about half an rains do to some extent lessen the value of the
spray, but our standard mixtures todny are
quite adhesive, and will usually gise excellent re sults, in spite of wet weather, If the weat re
however, happens to be wet or forp. in atom 1 wo weeks after the third sprasing it is wall there be an outbreak of apple scah. NFW SPRAY MIXTGRFS.
From time to time new spray miveres an ent
 are recumbentwit in the Spray Callention so fur. are murch five

WHAT PERCENTAGE OF CLEAN FRUIT MA
ONE HOPE TO OBTAIN FROM CARE-
Our FUL SPRAYING. Our own experiments on old, unsprayed or
chards, and our observations of the work ac
and chards, and our observave convinced us that i able to get at least 75 per cent. of clean apples and often he will get as high as 95 per cent. I some cases he cannot get this percentage, however without careful cultivation of the orchard an cause the plum curculio may be very abundant and these things are necessary to supplement th spraying for this pest.
Ione will not give large fruit, though sprayin help. To get large fruit, the orchard should be sary, and well cultivated from as early in sprin as the land is fit, to go on until about the end of should be sown to act as a cover crop, and, taking up the moisture, ripen up the wood for
winter, and help give color to the fruit. Thinwinter, and help give color to the fruit. Thin
ning fruit also helps greatly. The man who sprays well and finds he can get clean fruit, wil
usually take the other steps at once; and if $h$ can get a few of his neighbors to co-operate with carload or more, they will find buyers anxious to bid for their apples; and, in consequence, will get higher prices than they have received before,
thus paying them well for their labor. Successful fruit-rrowers cloim that they can make an averace of at least $\$ 100$ per acre clear gain from apple trees over 30 years of age and upwards. L . CASAR.

## "No Fruit Without Bees.

hat hive bees are an essential factor in the growth of fruit, is the conclusion reported in the
Journal of the British Board of Agriculture, by W. B. Little, Instructor in Horticulture, Armstrong College, Newcastle-on-Tyne, as a result of Engies of pollination experiments last year in
England. The bushes in the trials were apples black and red currants, and gooseberries. By means of posts, wire netting and white muslin, the berries and currants were enveloped before the blossoms had expanded, and continuing for about three weeks. When the netting was removed, a soon dropped off leaving not a berry on the bush similar bushes in adjoining rows had abundance f fruit. The currants similarly protected from isits of the bees during blossoming made an exessive growth of shoots and foliage, but no with fruit. In the case of the applea, trees were chosen making a good show for fruit, and one representative branch was covered with muslin hefore the flowers opened, the others being left exposed. In each case the covered branch bore no fruit, while the other branches carried a good rruit might be attributed to non-development of and air by the muslin a branch was covered with muslin after the flowers had been open several days, but before the petals had fallen, and thus nuslin was then put on, and kept there until on this branch, so that the exclusion of cound amount of air and sunshine did not affect the setting of the fruit. In the case of another orchard
of apples and berries, the nearest hives had been ne and one-half miles east, and the prevailing
winds from the west; the plot had very rarely fiven a satisfactory crop of fruit. Last year chard, but, though the weather was very unfavoraccasional gleams of sunshine. Not another vari-
Not ty of insect could be seen at work. An excellent crop of all kinds of iruit was harvested. The in-
ference drawn was that in previous seasons the
plantation had not been visited by bees in sufcient numbers. Other insects might play a part 1. We on the wing at flowering time. Prof. Litth. in thales, which months, with the exception of th. inmales, which lie dormant until spring. The hees, on the other hand, retain their full
and are ready for work with the first sunshine and appearance of blossoms.
le seasons, the wind undoubtedly aids tribution of pollen, but when wet
xperienced in spring, it is probable Hen is not dry enough to be wind-
the hees are still able to perform ffices as working partners with the
in accordance with the wonderful

life is, after all, just what we make it. If
we are going to value our lives by dollars and cents, then 1 claim we are not qualified to enter
the ranks of the true, happy, open-minded tillers the ranks of the true, happy, open mis everyone to
of the soil. While it is the duty of make a good comfortable home, with plenty stored away for the rainy days, yet illing and there is no class of people who are so wing as the
anxious to help their brother workman anxious to class of people are more contented, and, while the young people do seem to have a desire to leave the farm, think clerks or employees of the many cities who spend their lives in looking with torturing envy at some (comparatiary. few employees who are getting a princely salary.
To the boys on the farm I would say, I was once a boy, and know what boys troubles on the farm mean. I an glad that I stayed on the
farm and worked. I have travelled many miles farm and worked. 1 have travelled many mockey; and as a play footoan man the farm, I am willing to coma young life-so far as pleasures in the past and pares for the future are concerned-with any of those high-salaried engineers, everything know if
ered. While I may never be very rich, I know im I continue as I have done in the past, and am doing at present, I will be able, at the back with
ife, be it sooner or later, to look ife, be it sooner or later, to ionk independent life oleasure to the ever free and independenk my friends

FARMER.
The Sinister Eagle Scream of Annexation.

Editor "The Farmer's Advocate In a recent issue of your esteemed paper I have encountercd two pretendedly critical articles in expressed a few weehs ago regarding the safety of our more important ith the United States be carried into effect, many of the statements made by the writers being so absurdly overarawn, so incongruously misconstrueation. Concerning the opinions expressed regarding our horse-breeding
industry, little better can be expected, when we noustry, little better can be expected, we derived, coming, as they do, from a "Beer King
Huron County, and a "Yankee corn-dealer fissex County. Yet, beneath the mass of co fused jargon they seem to vaguely express Magnanirous, indeed ! But how? By supporting mous, indeed threatens to cramp and ruin its lead rises? Poor, pitiful pipe-dreamers
orises? Poor, piliful pipe the example of the trongly suggest the great big pail of milk, and then foolishly kicked it "Beef King " studied the Had our friend the Beel King he claims to horse-breeding proter that of producing cattle, he wouid
have studied that have studied wasted ink or energies in an attempt
scarcely have wand with
to reconcile the farmers of Eastern Canada with to reconcile the farmers which must result from the proposed scheme in impossibilities that Canada will still retain the hiry markets of the West, as well as gaining the best ones across the hine,
of the preference of oat-fed horses to thosed fon
fed on corn, anti that only the inferior grades of horses
will be cheapened. Now, everyone knows that, will be cheapened. Now, everyone knows in the
according to feeding experiments carried on in the according to feeding oxped States, the horse fed
corn belts of the United argety in a ration of corn has superior, to the posing as a free-trade journal, simply endorses my fears that our horse market will be seriously menaced, in its feebse act such a market across the line. Now, in regard hose the breeding of which no one shour en courage past few years we have noticed that as
out the
high-class horses have risen in value, so have int erior ones adcancon to predict that, if inferior horses decline, superior ones will follow suit Then, everyone has heard of turfler Toronto. In speaking of horses at the "umb recorded on ast December, "The Farmer sumwat", he said that, while there horse nume latsely in deraft horses, yet light-draft or arman hars
mand was the reed. Why? Because they were the in the West, were the cheapest $\$ 225$ per $\$ 200$............ Ont., to Saskatoon at about $\$ 40$ an hen, is the horse that will suffer, and :................ that this $\$ 40$ were as good as lost.


and, theretore, to the country at Iet us reason
This hold good in the long run ? 1 It le. In a computation handed us a few
breeding him? Now, as Mr. Smith hints, thi
horse is undoubtedly the cheapest and easiest to horse is undoubtedly the cheapest and easiest to
raise. Why? Because of the manner of his production. He is got by the mating of a mare
weighing from 1. 000 to 1,400 pounds with a draft stallion, the mare helping to do largely of the
work about the farm while suckling the foal which, when weaned, is allowed to grow up leis urely on moderate feed until he is four years old when he is ready for the Western market.
Now, if we compare the heavy, high-class draft horse, in the cost of his profluction, with the foregoing, it will be plainly seen why the agricultural
horse is the must. lucrative proposition. In an editorial in the Christmas Number of The Farmer's Advocate," headed " Draft-horse
Opportunities," we read that the big transport companies demand horses weighing not under
1,500 pounds, rather preferring those that will tip the beam at from 1,700 to 1,800 pounds, and such horses are desired to reach these weights only in average condition; besides, they must be
clean and sound, and are not wanted under five vears old. Now, in order to get an 1,800-pound gelding, it is almost essential to use a 1,600 pound mare, and to mate her with a 2,000-pound
horse ; besides, the foals must have an extra-pood chance, and be well fed summer and winter from start to finish, which period, unlike the agricultural horse, is not reached until the fifth year.
Now, as to the risk of breeding these horses, it is Now, as to the risk of breeding these horses, it is
a notorious fact to every horseman that animals a notorious fact to every horseman that animals
from the soundest breeding stock are liable to
blemish blemish. Well, if the heavy-draft horse is by
chance blemished, what is to be done with him ? chance blemished, what is to be done with him ?
The transport companies won't have him; he is too heavy to suit the average farmer; so the outcome will be he will prove an encumbrance on his
breeder's hands; while, if the agricultural horse breeder's hands; while, if the agricultural horse
is blemished, he will, under existing conditions, is blemished, he will under existing conditions,
find an outlet at a fairly good figure on the
Western prairies, where he will wear as long as Western prairi
though sound
 (See article, page 645.)
Now, in reference to the breedins horses, the average farmer knows the fancy light
an attempt in this direction the still, because, if a light horse carries bo much as it is quite obvious that there are many ups and downs in the production of horses that the "beef little about. Now, will these visionaries who have been preaching a market in the Eastern States come forward and show us where this agri-
cultural horse, the mortgage-lifter of our older Provinces, will find an outlet? It is quite plain that he is not a city horse, being too light for express purposes, besides the wrong type for van, parent that his sphere of usefulness must be the comntry, and that country must be new and de
wloping. Where new farms and farmers are being created Iarge numbers of these horses are now Weing shipped from Essex County, and from all
over the Irovince, to find exit into the Canadian Wrest the only stable market for such horses on Again, as to the assumption of my critics, en Apain, as to the assumption of my critics, en whe to inrchase cheaper horses across the line "ill woe an advantage to the Western farmer mecks afo, the editor of "The Farmer's AdroMon, Ont, to Saskatoon at about $\$ 40$, an

[^0]dealer an $\$ 250$, who, in his turn, has purchased
from an Ontario farmer, out of the $\$ 250$ the dea er gets $\$ 10$, the transportation company gets $\$ 4$ while the breeder gets $\$ 200$. Now, this $\$ 4$ transportation charge, that bothers some peopl. so much, passes, it is true, into the coffers of
railway systems.
But does it remain ther No ; these companies employ thousands of me the greaier the amount of traffic, the more m
are required. These employees must live. Wher are required. These employees must live. Whe panding our city limits, and the bread that nour ishes their palates is made from Western wheat Thus is the food-consuming public enlarged, and
consequently, the marikets improved. Then, wha about the $\$ 200$ that is caught in the pocket of he breeder? It is apparent that he is made nore prosperous, hence in a better position in
which to purchase the commodities of life. Where are these purchased? Here at home, from our own manufacturing establishments. Hence, these
industries, owing to increased demand. will bo industries, owing go increased to a greater output, consequently will help build greater food-consuming centers, an again the home market will be strengthened. So,
in buying his horses at home, the Western farmer even if he has to pay more for them is exerting beneficia! influence upon the whole commercial net work of this couritry, and at the same time helpagricultural product. Now, supposing, on the other hand, he purchases a horse at, say, $\$ 200$, from a dealer who, in turn, has purchased it at what becomes of the $\$ 200$ ? This passes into the hands of an American farmer and American transportation enterprises, the latter's share being in hauled. What is the outcome? The American farmers are made more prosperous, and consequently are better enabled to purchase the com-
nodities of life. Where? From American estab nodities of life. Where? From American estab-
ishments, which in turn are made more active. The transportation nes of the United States, owing to increased traffic, will
also be stimulated to
greater activity greater activity, and
the whole beneficial
reaction will be felt reaction will be felt
among the commerthat country true the Western
Carmer has saved $\$ 50$ lost $\$ 200$. This, instee of trading a than ",
steer."
The same argu-
ment can be especial-
iy applied to the
wheat and cattle applied to the
wheat and cattle in-

dustries of Western Canada. $\left.\begin{array}{c}\text { Should the } \\ \text { Western }\end{array}\right)$ farmer as Hestern farmer, as
Hon. Clifiord Sifton or his wheat more reciprocity, still, a be purchased by American large amount will channels and American ports, over American steamship lines, to find a market in the free ports
of Great Britain. John Bull foots the whole bill, the Canallian getting no more for his product than at present, while the extra money that is
helping to make of Canalla helping to make of Canala a nation of commerce
will be diverted to enhance the commercial enterprises and prosperity across the bordercial enter-
Again, Great 1 Britain purchases the surplus Again, Great Britain purchases the surplus cat-
of both Canada and the United States, the American corn-fed cattle commanding a fraction of cent more than Canadian cattle. Our export of the "Are purchased in our markets by mempers hannels of trate ", and are shipped through our roduce reciprocity in cattle, and what is the out-
ome? The whole Western trade will be turned mous!? in the stagnation of our own he 1.umme stagnation of our own. Even Canath consumsus of public opinion throughIf w.. Wwin stand passively aside, and see the s. of our ever-increasing traffic an channels, to swell the comHadening similar enters of that ading diplomats of the the United
to this. They are
$\qquad$
an. to tocity in farm products is
mestricted reciprocity,
 ant a manufacturing competitor. This a
ulticnt to make us sit up and think.
Hat at present we are an intensely agri-

many parts declare that the growing of grain for malting purposes is no longer remunerative at the prices they are forced to accept. The new situaand the idea has become widely disseminated that as the Irish farmer is obviously "up against
serious proposition, his best plan might be to ignore the brewer and the distiller, and find a
more profitable outlet for his grain in feeding it more profitable outlet for his grain in feeding it
to live stock on his farm, thereby helping substantially to reduce the huge national expenditure. running into millions of pounfds annually-for origin, sold very often at excessively high prices. of course, a great many farmers do use homegrown grain on their farms for feeding purposes, but the agitation under notice is working ior a
nuch wider adoption of the practice. It stands nuch wider adoption of the practice. it stands market prices current for grain, and the prices
the farmer has to pay for cakes and purchased the farmer has to pay for cakes and purchased best method of disposing of grain. Such prices fuctuate from season to season, but undoubtedly, under existing circumstances, there are strong foodstuff on the farm is the best-paying outlet for such produce. Seeking the benefit of expert inormation, a repres the Vice president iarm Department of Agriculture, and urged on him the great importance of instituting a thoroughly pracical test, in order to ascertain definite informa-
ion for the guidance of farmers as to the actual leeding values of the different grains, compared
with imported cakes and meals, and, further, to de with imported cakes and meals, and, further, to de-
termine the proper proportions in which the grains cermine the proper proportions in which the grains or mixed with other ingredients, so as to give
the best feeding results. This the Department or best feeding resultt. This the Department
thave expressed a willingness to do, and useful inave expressed a willingness to do, and usefuled inan outcome of their investigations.
"HE " ILL WIND"

The moment that the recent English outbreak Irish ports were almost automatically closed against stock from across the channet; and siderably lessened in the interval, the Royal Dublin Society have decided to take no risk in
admitting any British animals to be exhibited at their great spring show at Ballsbridge, in Easter week. Nearly seventy cross-channel entries were nade, but all have been declined., "England's
difficulty: Ireland's opportunity," is an old political cry, remindful of rather rancorous remiaiscences; but, in a commercial way, we can fairly Ience it is expected that the great South American buyers of Shorthorns and other pedigree stock who dare not send animals to the Argentine from ny British port for many months, will be induced to turn more extensively than ever this requirements. Efforts are being made to cater Or their convenience by getting direct sailings es-
tablished between Dublin and other Irish ports and South America, so that there may be no and South America, so that there may be no mbarkation on the big boats there, as has forLAWS IN THE MAKING
Some say it is a scandal, others say it is a
atter for indifference, that T. W. Russell, as Vice-President of the Irish Department of Agriculture, is still without a seat in Parliament. I
will content myself with moderate language and will content myself with moderate language and
say it is at least a pity that he is not able to personally look after the interest of Irish agriculure in the House. A number of recent discusect. representation of the body over which Mr. Russell has charge. The far-reaching Butter Bill, which is to control the dairy industry of the country, gives no signs of appearing on the legis-
ative horizon; but then, with the soccalled constitutional crisis still looming, most of the legisative machinery is at a standstill. A private
measure, fathered by Wm. Field, M. P., and exten sively backed, is, however, "on the road." It
is called the Meat-marking Bill, and, as its name is called the Meat-marking Bill, and, as its name implies, is designed to check the sale of frozen
foreign meat as genuine home-fed produce-a disionesty that is extensively practiced with shame-
ul flagrancy in our consuming centers, both large and small.
and
and

Richer Than the West.
vield greater returns than the land of the West Where, in the West, work was provided for only
six or seven months in the year, in New Ontario soil of the great clay belt was equalled nowhere solse in the world

Eastern Daipy School Examinations.
Of the seventy-four students who registered at the Eastern Dairy School for the session of 1911 only twenty-nine completed the full course, which closed on March 25th.

The subjects covered by the written examina tions were: Cheesemaking, Separators and But termaking, Milk-testing, Dairy Chemistry, Dairy Bacteriology, and Miscellaneous (Boilers, Engines on Cheesemaking, Buttermaking and Milk-testing. The total marks obtainable were 900 ; 33 per cent. was required for a pass on each subject,
50 per cont. of the total for second-class honorg and 75 per cent. for first-class honors. The fol lowing is a list of the successful candidates, in order of general proficiency : First-class honorsAaron Stoodley, 709; J. W. Charbonneau, 683 Second-class honors-W. E. Rallison, $666 ;$ R. A
Grant, 642 ; Roy Richards, 634 ; Lorne Merk ley, 633 , J. A. Mitchell, 623 ; D. Connell, 607 H. G. Villeneuve, $580 ; \mathrm{H}$. McDonald, $561 ; \mathrm{S} . \mathrm{J}$.
Landon, $554 ; \mathrm{H}$. Woods, $550 ; \mathrm{H}$. Richards, $^{2}$. 542. Third-class honors-E. S. Beales, 531 ,
Geo. Thimens, $524 ;{ }_{\text {H. }}$ Greatrix, $495 ;$ G. H Phillips, 489

## 1logers, 470.

## Algoma Notes.

Our winter is almost a thing of the past. One hardly knows whether to take the sleigh or the wagon. We had a comparatively mild winter The stock are coming out well this spring with feed left over, if the number of hay stacks tell the story. Pressed hay, $\$ 9$ per ton ; oats 35 cents; peas, 65 cents; pork; about $\$ 9.50$ dressed, with butter from 25 cents to 30 cents, and eggs at 20 cents a dozen now.
So far, the apple trees have stood the winter
well, but the alternate thawing and freezin will well, but the alternate thawing and freezing will
tell the tale later on. The heavy crust of the snow has played havoc with the bush fruits; many are broken right down, and need to be cut off and let thern make fresh start from the roots. of twenty members in our neighborhood. There is no registered heavy-draft stallion in

Have just received from Herbert J. Reid, Sec retary of the County Dublin Farmers' Association Ireland, a copy of the sixth, annual report, to sociation works. The objects of this farmers' or ganization are: To protect the members in carry ing out their business, to secure the best possible and demonstrations, provide technical instruction matches, etc., and to enter into agreement with anunicipal or other authorities to further the authorities desirable richts and privilem these cial intercourse among the members is also to be encouraged. The committee are to meet at least once a month, and the annual general meeting ings in April, August and November. The report of 1910 claims that the Association has sur
mounted its infantile difficulties, and promises to
flourish with robustness and vien tures which the Association had the pleasure lec
 with much appreciation.

For some weeks past persistent rumors hal
been circulated through the press to the affect that neposits of potash had been discoreroly in th

 the interests of his firm, to fini what truth there was in to the rum.....
us to the effiect that, while he

Pushing Fruit Business in Wentworth.

Last fall, every unsprayed and uncared-for Last fall, every unsprayed and uncared-for or-
chard in the district between Hamilton and Guelph was a losing and a discouraging proposition for he owner, and for the buyers who bought and and more trouble, from start to finish.
Carey Bros., of Hamilton, who owned an vaporator at Millgrove, and were the principal suyers and exporters from that district, decided hey would cease the buying game, and rented for and set to work at once to over aighty acres, hards in the proper manner
This started a general-improvement feeling, and few of the most influential growers and best hinkers got together, and asked Carey Bros. if it growers' Association, and promised them their staunch co-operation and assistance if they would start the ball rolling. They agreed heartily, and II. as follow, Guelph; Mr. Gilbertson, Simcoe, and P. J.
Carey, Dominion Fruit Inspector, Toronto : and. by individual invitation, called a meeting of all ruit-growers of the district, and met in the Town Hall, Millgrove. The two meeting
and evening, were largely attended.
and evening, were largety attended.
That night, twenty-one men agreed to join in committee, and the committee in turn appointed Roy A. C'arey as manager and secretary-treasurer. More meetings were held, including as speakers ens' Association, of Simcoe. Seventeen more growers joined, and we now have a total member-
ship of thirty-six, representing about 250 acres of orchard, and each member is pledged to spray his
orchard thoroughly, and to prune and fertilize where necessary.
Through the influence of the Association, outsiders are waking up to the sense of their duty,
and all over the country you will find orchards being pruned, scraped and sprayed thoroughly, as hey never have been before. Several power sprayers and a carload of trac-
tion and hand sprayers have been shipped in here tion and hand sprayers have been shipped in here
and found their prospective homes. The Fruit Branch of the Department of Agriculture has sent to us for the entire season R. R. Waddle, of Simcoe, who is giving our members valuable informaspraying and cultivation. He has also taken five small orchards as demonstration orchards, and will handle them something on the same plan as
vas followed by Mr. Kydd, at Collingwood last season. Our main idea and determination is to place
on the market a better and more uniform pack of fruit, and the outcome is eagerly watched, par-
ticularly by growers who have not ioined us yet, and who say they will join next season, if all Goes well, which sounds to the enterprising leadwhen one fellow says, ": You go in first, and if When one fllow says, "On go in first, and if
the water is fine I'll come in too."
$\qquad$
Rumor has been persistently connecting the name of Dr. James W. Robertson with prominent try. So far as "The Farmer's Advocate" "has beunded as Dr. Robertson is underston not well expressed in no uncertain words his intention not to accept again a position as civil servant, or and salary Friends of Dr. Robertson suspect
that he has some aspirations in the direction that he has some aspirations in the direction of next general election he were to offer himself as an independent candidate. A man of Dr. Robert-
son's attainments would render invaluable service o agriculture in the Dominion Parliament, or,
eetter still, in the Cabinet. in case he should be

Hon. Mr. Fielding's fifternth annual Budget
Hon. Mr. Fielding's fifternth annual Budget
statement, lately presentell to the Commons was statement, lately presented to the Commons, was
remarkable for two things - it was short, and
The speech onlv occuriol 40 minute

## coe Qamadiam Bank of Commerce

## Forde to farmers and others every

 beallity for theAcconte may be epened by mail and monoys doposited or withdrailly.

SALES NOTES will be cashed or taken for collection

Branches throughout Canada, inBranches troug our
cluding Toronto, Hamiton, Moan-
real, Charlottotown, New Glasgow real, Truaro.

MARKETS

## Toronto

At West Toronto, Monday, April 10th,
eeceipts numbered 103 cars, comprising 2,150 cattle, 33 hogs, 511 sheep, 104 trade slow; exporters easier. Expor prime picked lots, $\$ 5.80$ to $\$ 6$; good, common, $\$ 5$ to $\$ 5.20 ;$ cows, $\$ 3.50$ to $\$ 5.25 ;$ milkers, $\$ 40$ to $\$ 60 ;$ calves, $\$ 4$ t
$\$ 7.50$.
Sheop-Ewes,
$\$ 4.75$
$\$ 5.25$ yearling lambs, $\$ 6$ to $\$ 7.30$; spring lambs, $\$ 4$ to $\$ 8$ each. Hogs, lower, at $\$ 6.50$ for seleots, fed and watered, an
$\$ 6.20$ to drovers for hogs f . o. b. cars sountry polets.
REVIEW OF LAST WEEK'S MARKET The total recoipts of live stock for the
last week at the City and Union Stock-yards were as follows

 The combined receipts at the past weel
Union Stock-yards for the part
show an increase of 32 carloads, 228 cat
and tle, 1,225 sheep and lambs; but a de
crease of 371 hogs, 14 calves, and 22 It will be sen by the above figures,
that the receipsta were
warcer $\begin{array}{rl}193 \\ 4,477 & 6 \\ 1,634 & 7 \\ 88 & \\ 177 & \\ 237 & \end{array}$ 385
186
1077
318
823
237Beans,
Car
Cil
picked.
Potat
$\qquad$
previous market, wat not trat greater than
the demand. Trade during the week on
several occasions was slow. Trade fo
the ordinary run of cattle at times wa.
slow, but there was little change in


ADVOCATE


## Chicago.

 $\$ 6.85 ;$ good heavy, $\$ .30$; light, $\$ 6.45$ to
heavy, $\$ 6.10$ to $\$ 6.30$, $\$ 6.90$ pigs, $\$ 6.40$ to $\$ 6.90$; bulk, $\$ 6.35$ ${ }_{\text {Cattle.-Beeves, }}^{\$ 6.25}$ to $\$ 7.10$; cows and heifers, $\$ 2.75$ to $\$ 6.25$; stockers and
feeders, $\$ 4.25$ to $\$ 5.80$; Texans, $\$ 4.90$ to 85. 80 ; calves, $\$ 5.50$ to $\$ 6.75$. . Western
Sheep and Lambs.-Native and We

## Buffalo

Cattle.-Prime steers, $\$ 6.50$ to $\$ 6.75$ Calves.-Cull to choice, $\$ 5$ to $\$ 8.75$. 7.15: cull to fair, $\$ 4.75$ to $\$ 6.90$; year
$\$ 5.50$ to $\$ 6$; sheep, $\$ 3$ to $\$ 5.10$. Hogs.-Yorkers, $\$ 7.20$ to $\$ 7.35$; pigs, H.40 to $\$ 7.45 ;$ mixed, $\$ 6.85$ to $\$ 7.15$;
heavy, $\$ 6.50$ to $\$ 6.65$; rough, $\$ 5.30$ to GOSSIP.
YRSHIRE RECORDS He cow Snowtake - 19780 , owned by Snt., gave in 26 days in December, 1910,
61.27 lbs. fat, and in January, 1911, she gave $1,871.25$ lbs. milk, and average of 3.21 lbs butter per day.
The Ayrshire cow Notherhall Brownie oth (imp.) -23985-, American Herabook,
owned by J. W. Clise, Redmond, Wash., has lately closed her year test 110 lbs. milk and 780.91 lbs. fat, equal o 911 lbs. of butter. This the washington State Agricultural Colloge. Netherhall Brownie 9th holas fat. It is up to
shire record of milk and fat. our Canadian Ayrshire men to go one tantly discovering some wonderful producers among our Ayrshires, thanks to
the Advanced Registry and Recerd of
$\qquad$
show of the Royal Agric
of which King George is President, is expected to be the finest kind ever held. The show, which is to
be held at Norwich, will run for five days, beginining Monday, June 28th. As at
least six months are necessary to bring least six months are nefor the great ex-
the grounds into shape for hibition, workmen are now busy running ings needed. The surroundings, are beautiful. Twenty-five of the
show park are plcturesque plantations, breildings and sheds. Clumps of trees are dotted here and there over the open. The
pper side of the grounds is bounded by nus the river Yare, while through the middle of the ground, from the high
woods to the river, runs a noble avenue files of sheds, where cattle, horses, sheep, ligs, implements, machinery, poultry, bees,
forestry exhibits, etc., will be housed and displayed.

TRADE TOPIC
From our readors, we receive nints that they are well aware that molasses is
quite generally fed to animals in the old Country. That molasses has a
value as a conditioner and fattener for all kinds of stock seems to bisagreeablyticky substance, and when used by ispin, haled on the fodder, and consequently its ase waild. For a number of years, how-
entailed. Meals have been obtainable on the Con-
heare
tinent and in England, and within the last three years this product has been brought upon the mampany, supported by
Caldwell Feed Comp vertisement appears in "The Farmer's Advocate," have buite manufacture of MO-
large plant for the mane
lasses Moal. Only pure cane molasses
lis. Iasses
ussed as the active principle. Literatur
und samplos may be obtained on request

## 654



Easter.
A bong of sunshine through the rain
of spring across the snow
balm to heal the hearts of pain
A peace surpassing woe.
Litt up your heads, ye
And be ye glad of heart,
For Calvary Day and Easter Day
Were just one day apart.

Little Tpips Among Eminent Wpiters
The Garden of Gethsemane
(From "Out-ot-doors in the Holy Land,"

Come down, now, from the mount Come down, now, from the mount
of vision to the grove of olive-trees of vision to the grove of olive-trees,
the Garden of Gethsemane, where Jesus used to take refuge with his
friends. It lies on the eastern slope friends. It lies on the eastern slope
of Olivet, not far above the Valley of Kidron, over against the city gate
which was called the Beautiful, or which was called the Beautiful, or
the Golden, but which is now walled up. ${ }_{\text {The }}$ grove probably belonged to sonee friend of Jesus or of one o
His disciples, who permitted them His disciples, who permitted them
to make use of it for their quiet meetings. At that time, no doubt the whole hillside was covered with olive-trees, but most of these have
now disappeared. The eight aged now disappeared. The eight aged semane have been inclosed with a low wall and an iron railing, and
the little garden that blooms around them is cared for by Francisca monks from Ita
The gentle, friendly Fra Giovann
in bare sandalled feet, coarse brow robe, and broad-brimmed straw is walking among the flowers. opens the gate for us and courteous French that we may pick what flow Frs we like. Presently I fall int discourse with him in broken Italian
telling him of my visit years ago to telling him of my visit years ago to
the cradle of his Order at Assisi, and to its most beautiful shrine at L, Verna, high above the Val d'Arno
His old eyes soften into youthit His old eyes soften into youthily
brightness as he speaks of Italy
It It was most beautiful, he said, "be
lisima !" But he is happier her holy, " santissima The bronzed Mohammedan garden task, moves with his watering-p, among the beds, quietly refreshing,
the thirsty blossoms. There ar wall-flowers, stocks, pansies, bahy
breath, pinks, anemones of all colors rosemary, rue, poppies-all sorts of
sweet, old fashioned flowers. Amon,
them stand the scattered






an aspect so enduring
pear to be cast in
oliace telicats a aundor
ing softly in the sunlight
rreeze, with silken turning
under side of innumerable leave
he center of the garden is a ki
the center of the garden is a kin!
of flowing water, erected in memo
of a young American girl. At each
corner a pair of slender cypresses lift
their
their black-green spires against the
blanched azure of the sky.

It is a place of refuge, of ineffable It is a place of refuge, of ineffable
tranquility, of unforgetfult tenderness.
The inclosure does not offend. How The inclosure does not offend. How
else could this sacred shrine of the else could this sacred shrine of the
outdoors be preserved? And what outdoors be preserve for it than the
more fitting guardian for Order of that loving Saint Francis, who called the sun and the moon his
brother and sister, and preached to
of sacrifice, and the anguish of that
wrestling wrung the drops of blood rom Him like sweat. Here, for the only time, He found the cup of sorprayed the Father to take it from
His lips if it were possible His lips if it were possible-possible
without breaking faith, without sur-
the vestibule, with its tall can delbra; then in the Angels' Chapel with its fiking darkness visible, then, stoop
making through a low doorway, we can
ing ing through a low doorway, we cam
into the tiny chamber, six feet square which is said to contain the rock hewn tomb in which the Saviou The name "Waster,", however, is derived from Ostara, goddess of the
Saxins, who was worshipped in Eng Saxons, whe was worshipped in Eng
land by the Druids, and throughour Northern Germans, as the personification of the east, of morning, and At first, the date of the Christian

brother and sister, and preached to
a joyous congregation of birds as his a joyous congregation of birds as his
"little brothers of the air "The
flowers do not fiend. Their antiue flowers do not offend. .Their antique
fragrance, gracious order, familiar fragrance, gracious order, familiar
looks, are a symbol of what faithful memory does with the sorrows and
sufferings of those who have loved us sufferings of those who have loved u
best-she treasures and transmute best-she treasures and transmutes grows her sweetest flowers in the ground that tears have made holy. It is here, in this quaint and
carefully-tended garden, this precious place which has been saved alike from the oblivious trampling of the crowd
and from the needless imprisonment and from the needless imprisonment in the open air, in the calm glow of the afternoon, under the shadow of
Mount Zion, that we find for the Mount Zion, that we find for the
first time that which we have come so far to seek-the soul of the Holy Land, the inward sense of the real presence of Jesus.
It is as clear and vivid as any outIt is as clear and vivid as any $T$ not
ward experience. Why should I
speak of it as simply and candidly? speak of it as simply and candidly
Nothing that we have yet seen in Palestine, no vision of widespread
landscape, no sight of ancient ruin or famous building or treasured relic, comes as close to our hearts as this
little garden sleeping in the sun Nothing that we have read from our
 rendering love. For that He would not do, though His soul was exceeding sorrowful, even unto death. Here
He learned the frailty of human friendship, the narrowness and dullness and coldness of the very hearts
for whom He had done and suffered most, who could not even watch with What infinite sense of the poverty and feebleness of mankind, the in-
veteracy of selfishness, the uncerteteracy of selfishness, the ances human impulses and aspirations and promises; what poignant questioning of the necessity, the util-
ity of self-immolation, must have ity of self-immolation, must have
tortured the soul of Jesus in that hour ! It was His black hour. None can imagine the depth of that dark-
ness but those who have themselves ness but those who have themselves
passed through some of its outer passed through some times when love seems vain, and sacrifice futile, and
friendship meaningless, and life a fail friendship meaningless, and
ure, and death intolerable.
Jesus met the spirit of despair in the Garden of Gethsemane; and after that meeting, the oross had no ter
rors for Him, because He had alrors for Him, because He had
ready endured them; the grave fear, because He had already con auered it. How calm and gentle was the voice with which He awakened
His disciples, how firm the step with world was burie Mass is celebrated here daily b
different Christian sects. rich and poor, come hither from a parts of the habitable globe. They
kneel beneath the three-and-forty pen kneel beneath the three-and-forty pen
dent lamps of gold and silver. The kiss the worn slab of marble which covers the tombstone, some of then smiling with joy, some of them weep-
ing bitterly, some of them with quiet, businessilike devotion, as if the were performing a duty. The priea of the relics which they lay on the alta with holy water, and one by one the pilgrims retire backward through th I saw a Russian peasant, sad-eyed wrinkled, bent with many sorrows stone, with silently on the tomb he were a child leaning against his mother's breast. I saw a little bare feet boy of Jerusalem, with big,
serious eves, come quickly in to kiss the stone ; but it was to high for him, so he kissed his hand young na it upon the altar. I saw slender, hardy more than a girl Italian face, shaken with sobs, the tears running down her cheeks, as she bent to touch her lips to the
resting-place of the Friend of Sin ners.
This, then, is the way in which the craving for penitence, for reverence,
for devotion, for some utterance of the nameless thirst and passion of
the soul leads these pilgrims. This
is the form in which the tis. is the form in which the divine mys-
tery of sacrificial sorrow and death tery of sacrificial sorrow and death
appeals to them, speaks to their
hearts and coniforts them. hearts and comiorts them.
Could any Christian of whatever
creed, could any son of woman with
a heart to feel the trouble and long. a heart to feel the trouble and long-
ing of humanity. turn his hack upon
that altar? Mist I not go away
from that mysterious little room, as
the others had gone. with my face
toward the stone oi remembrance, toward the stone of remembrance,
stooping through the lowly door?

## Easter

$\qquad$ land so dependent upon the in great
stream for its fertilit. Hence great the priests watched for the "turning ney. The Phoxicians, who worshipped
the sun under the nume Taal, held their sun festival at this season; and
later the Israelites adlonterl the same iime for their feast of the passover use early Christian church, in turn


$\qquad$ 2.in. Whase whine if not of these

| on a change. The equinox was set for March 21st, disregarding its variations, an the first Sunday after the fourteenth day of the moon that is in the ascendancy at that time. <br> The ase of eggs, of course, is symbolical of resurrection, although eggs have been held as sacred or sym- bolical by many non-Christian peoples, as among the ancient Brahmins, for instance, who told of a primeval "water" upon which arose. The custom of eating hot-cross buns on Good Friday has descended from the pagan worship of the Queen of Heaven with cakes which were made to resemble the sacred heifer in Egypt, and so called |
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The Windrow

## 0

Until the reign of James II., it was customary at Easter for the British
sovereign to wash the feet of a num-
sub his subjects corresponding to ber of his subjects corresponding to
his own years of age. When Queen Elizabeth was thirty-nine, she washed the feet of thirty-nine the feet had been put through a double washing and perfnming process before the cere-
mony. William III. was the first mony. William from the custom, deputing the task to his almoner, and finally gifts of money, " maunds, In paintings, even quite famous the conceptions of the artists have often shown the hure stone Archroto roll away a huge stone. Archeco pictures give an erroneous idea. These stones at the tombs were really shaped like wheets, and were made usually placed before a " shelftomb," in which the body was placed on a shelf placed in a recess exca-
vated in the rock. The traditional tomb of Jesus, in the Church of the Holy Sepulchre, at Jerusalem, is a tomb of this kind. It consists o two chambers, an antechamber "Chapel of
vestibule, now called the "Col the Ancrel," and the tomb proper containing a shelir now of these tombs marble small and low, this explaining why Mary Mardalene , and again

Hope's Quiet Hour
The Same To-day

JESUS Christ the same yesterday, a The world sits at the feet of Christ 'nknowing, blind and unconsoled; It shall yet touch His garments

And feel the heavenly Alchemist, And feel the heavenly Alchemist
Transmute its very dust to gold.'
 iving, and at hand, could not be expocted
 Him any their staranest earthy champanion, avit they reverenced Mim as yivine some Iito nad gone outs they stit mourned over
 dty omsust run quickly to carry the sood news ton hous to to house Breathess, but Matumt, they reveated the stion , wherever a wondering istone
 No tound Then ing ine robot th they loved; and He was isistening not kno



 them," "and uptraided athen "and apbrass of
 f.w ywars more pass and he can nard
inderstand why skating or coasting wh
ompe a kewt delight. The dearest earth Wys slip out of our grasp, or out of our
aifections, but JESUS is "the Same" "terday, to-day, and for ever. A very death. His friend read to him one of h. learned books that he used to enjoy. marked. Then he spoke about the living Christ, and said, "There is nothing else of any use to me now." tells us that we Our own experience tells us that we experience of those who have passed triumphantly or peacefully into the unseen life on the other side of death, leaning on will help us safely through. We cannot will help us sately through. We cannot
grow beyond His fellowship. But the Easter message that "JESUS LIVES!" is not to be kept to ourselves.
The women, who were first told th The women, who were first told the
glorious tidings, were sent to bring the disciples word. Even if they had not been commanded to spread the good news, even if they had tried to keep the secret,
their glad faces would have spoken plain ly. So it is to-day. If we live ever day consciously with our Master Christ
di we tell Him about our pleasures, con it we tell Him about our pleasures, con-
sult Him in our difficulties, and endure sult Him in our dificuttres, and endure
our troubles cheerfully and patiently in His strength, then others will be more sure that He is really close at hand. If
only one or two people in the world beonly one or two people in the world be-
lieved that they could speak to Christ lieved that they could speak to Christ
and be answered by Him, then they might often doubt their own conviction of His
Iiving Presence. If only one person had Living Presence. If only one person had
seen Him on the first Easter Day, that seen Him on the foubted his own experione. But the faith of one was strengthened by the witness of another. And is always so. If we allow our faith
grow weak, we are injuring the faith grow weak, we are injuring the faith of
other people; without intending to do other people; without
them any harm, of course. If we have a clear vision of our ever-prosent King, then
others will find it easier to believe. But how can we make ourselves believe? Faith is the gift of God, and we can ask Him for it. Faith comes to us
through the Holy Spirit, and He is althrough the Hoys given to those who pray for His ways giling Presence. Faith was given to those who loved Christ We do not hear is "the Same" to-day. We do not hear
that He showed Himself alive after His death to anyone but friends. of course, death to anyone but friends.
the people who do not want to believe,
do not want to fight each favorite sin to
witnesses
or Pilate,
or Pilate, th
A ferw weeks ago I heard a missionary Alt the story of an old man who had haid the eager convert, "how long have When told that the loves us all? teat ioy had been known for many hungreat joy had been known for many hun-
dreds of years, he said: "Oh, why did you not let us know sooner? Perhaps might have died, like others of my peo
ple, without knowing anything about it? Christendom is waking up to a sens Christendom is waking up to /a sense
its responsibility, but are we-each one of us-virtually interested in Missions? If we have had our eyes opened to see the Face of the Living JESUS, are we satisfied to enjoy the knowledge of know?
Love without trying to let others I don't mean only sending money to mis-sionaries-though that is very important JESUS is the same to-day as He was JESUS is the same to-day as He was
yesterday. Then He hid Himself under yestercay. Thplace. Many saw Him working in the carpenter's shop, and yet did
not know Him to be God. Now He not know Him to be God. Now He
touches us in every sorrow and in every fouches us in every sorrow and in every or child we meet, He puts each moment's duty into our hands, and phen we lay our gladness into our hearts when we lay our
lives at His feet. He still reveals Himsell sometimes in dreams. A few weeks ago, I dreamed that I saw Him, not
clearly, but in a shadowy vision. The face was hidden entirely, and I did not hear a voice, but I knew that His orders were to do something that was against my own wish. In the dream came a
sudden rush of joy as I yielded my will sudden russ re rembrance of that dream has helped me to rejoice in the privilege of obeying when obedience is hard. You ./ King with many crowns He
stands, our names are graven on His hands
Priest, with God-uplifted eyes, He offers for us His Sacrifice; As the Lamb of God for sinners slain, dora farncomb.

[^1]The following is an extract from "Near Home at Last," a poem, by Rev. J. V. B monsell, written a week before his own


A Fine Back Yard
bleaching, or for quiet enjoyment of its beauty. Residence of Mr. Rowland Stephens, Middlesex Good alike for tennis, for bleaching or ar
happy deat
Was seemingly in good health. or the dear old familiar room
When all that round about it lie
Is full of happy memories, When watchrul love with silent traich Steals gently round the dying bed, Fall gently on the dying ear, To close in faith the dying ees When the last dull dim sense of feeling Is constiousness of dear ones kneeling
Devoutly round, and breathing there The elast commendatory, prayer.
Then, suddenly, to ope
mine Then, suddenly, to ope mine
And find myself in Paradise And ind myself in Parever To find myself with Chist at last
To see that look of welcome given To see that look of welcome given, To feel throush all my being move That holy atmosphers on me laid Hear these sweet words, be not
I know in whom I have believed,
. By Whom I shall be then receive The dignity and tender grace
Of that ott-imagined face Of that oft-imagined face,
The well-known and tamiliar vo That made my heart on eerth rejiol To oee, as Stephen; hear. as Paul Paul
And then at last ose oe it all
and See my own Jesus standing near
And His soft, "I am Jesus!", hear

Then, when my race on earth is run
Wy day of work and waiting done My day of work and waiting done,
And I with tottering footsteps wend Nearer to what men call my end, Neare
And they in whom lite's tide is hig
with pityin whispers pass me With pitying whispers pas
ask no pity for my tan
ask no
Nay, rather
For Home

## Resurrection

Breezes of spring, all earth to life waking skyy
The butterly its lonely prison breaking;
and Types such as these a word of hope have
spoken,
Have shed a gleam of light around the

But wearry hearts longed for a surer token-
And this was granted! See the Lord as cending,
On
crimson clouds of evening calmby With hands outstretched,
On His bereaved ones
" hear Him say
II am the Life; he who believes in $\mathbf{M e}$
Soon here $I$ am tor evermore shall be."
sing Halleluja
The mystery of life and death is plain


## The Dawning

 Or the deepening h or the sk's dim id a mossom chngRose palt, in the hed For an April pledge ?

$h$ 'tis Eastertide,
$\qquad$

The Beaver Circtl.
FiFor all contributors letween the ages
of ten and fitteen, inclusive, who are in Fourth Book, Continuation Classes, Dear Beavers, $-\overline{\text { have }}$ an interesting an order to encourage you to do some ga dening at your home, we are going to give you the following competition.
your father to give you a small plot your \round, plent in it five kinds of vege tables-your own choice-and the following fowers: Nasturtiums, asters, white candyturf,
In the fall,
phlox drummondi, verbenas
when best, have a picture taken of it-a snapshot, taken by anyone near who has kodak, will do-then write us a letter
 For the best letter, with photo, we wid
give a prize of $\$ 5.00$ in cash; second prize,
prive
s.00
S.00; Now, won't you try this? You must supply your own seed-ten packets in allor two of you can club together and ded
Gide each packet in two the seed trom a good seedsman (any of those who advertise in our paper are good), then glve your garden the best of care. and even though you should fail, you will and even thounh gor
still have gained, tor you will have the flowers and the vegetables.
and photos must arrive at this affice not and photos must arrive at this afficic not
later than September .3oth Adress


## Our Letter Box




 rown, and
skin-mats. kin-mits. You can get them in 6 ow ganda.
to her.
to friend's father brousht them
Sometimes they are very hard to catch. One little squirrel bit a man when he was helprog tometimes they will
can get very run up your arm if they are used to you.
But sometimes they are very dangerous
to handele. I wish some of the Beavers would cor
reepond with me margaret tanton Toronto, ont., (G55 College St.

Dear Puck and Beavers,-This is my
first letter to the Beaver Circle, although frrst leter to the Beaver Circle, although
my father has taken. The Farmer's Advocate" for a number of years.
I live in a litlle village called "Weston, which is situated on the banks
the Humber River. This in one of the
thriving suburban villages of Toronto thriving suburban villages of toronto
Electric cars run beween Toronto and
Weston. Twenty-three passenger trains Weston. Twenty-three passenger trains
go through Weston dally.
This go throug weston daty on the main
o. Weston being situted ond
limen of the Grand Trunk and Canadian Pacific Rail ways.
Althoush I Iive in the village, we hav
 two ponies. They are very quiet and
good - tempered. My brother won fros




$\qquad$
$\qquad$ad her twoun scotland wren" (age 14)
wur own name pul
$\qquad$
t once went and got a ladder. ather climbed up and go thadert litto ind
out. We all looked at it in our hunds. and then let it go. It few away, seemWe have the 'phone in our house now. My father has taken "The Farmer's nd we all think it is the best paper yet. 1 live on a farm about ten miles from
Kincardine.
Our farm is called "Toint
Tarke. I have a mile and a hall to our school. We had a Christmastree er, and I took part in the programme As this is my frrst letter to this tamous Circle, I must not take up too much will escape the hure monster of a w-o bo I will give a few riddles : Why is a cigar-loving man like a tallow
andie
Ans.-Because
he
will
smoke When he is going out Why should a horse not be hungry on
his journey ?
Ans., Because ho always has a bit in his mouth.
Why does a chicken three weeks and two days old walk across the road
Ans.-To get to the other side.
SYIVIA L. BROWN (Book IV.) $\underset{\text { Lurgan, Ont. }}{\text { Syivia }}$ L. Brown (Book IV.

## Dear Puck, - This is the frrst time $I^{\prime}$ ve

 that some of the grins would be ince. For
a badge. I think pets I have a dog. She is only a littlo
dog, but she can catch rats and mice to in the well, and my tather had to put a
ladider down in the well and help her out. I was away, but I heard all that
had happened to my pote me will
up and beg for something to eat, and she up and beg for something to eat, and she sh
will eat apples just like a littlo boy, and will eat apples just like a litetle boy, and
she will play hide-and-go-sek with us.
 back. I had, a little calf, and my und
said ho would take it for the winter. said up to see it one day, and it has
was ADEN L. VAN SICKLE (Book im.
Jerseyvile, Ont.

Dear Puck, -T have long enjoyed reading the letters in this Circle, but never gath
ered wp enough courage to write myselt 1 llve about two miles trom the villagy
of Niestown. and like it very much. I have about mile to go.
For my pets I have a nice old mothe cat called Molly, a kilten, which
Peter, and. a dog called Fido. Peter Peter, and.and me kiten. gray and white, and
a nice kiten.
catches lots of mice. Fido is best of all catches not very large and is black, with
Ho is in and
white brast.
He is not very old about two years. I have a sleigh and nice harness. I hitch Fido up to the like the wind. Ho will go anywhere yo want him to go. My brother hitch
him up and goes out to the village t the mail, sepecially on Friday nights, to
then he gets
The Farmer's Advocate then he gets "The Farmer's Advoc
which we all enjoy reading very much We have a nice sugar bush on our far and, with tapping, come the jolly time
We ny around emptying the sap pails
 or not, and then watch father boil the sap down to syrup. We take some of the
syrup, and, calling in some neighborin children, boil it down to sugar. What
fun we have : Stirring the rich, wa Sugar into patty-cakes; and then we
some and take some some and take some to school.
some nice playmates at shool, and
says remember them when they have Iny. Ithink sugaring-off is such skating and coasting is fun too. It
skarly very
night atter scho for a long time. There are tots of pond
around our place. around our phace
Mis my letter is getting rather long,
will close. wishing the (lircle every suc cess. Nilestown, Ont. Age 11, Book IV.)

The Flowers.
Written for the Beaver Circle, by Am
kut, alas! one morning they did not raise Yor the frost hads, come and trozen the
 last the winter passed away. And the fowers did no longer lie;
For they lifted their heads as if to sa, orning, this beau-

## Beaver Cipcle Notes.

$\square$ would like some of the Beavers to corre spond with her. Also, Florence Poo We are sure Esther Srigley could writ us a very interesting letter about Felec. Island. Try it, won't you, Esther? has been crowded out this time, but it wil Will the Beavers be kind enough no send any more letters until requested hand. Er Beavers Dear Little Beavers,-What a happy da Caster Sunday is! Spring is coming, easter holidays are here, and there
another reason, too; some time on Easter Sunday, ask your mother to tell you why are eaten on that day. Perhaps, on Saturday, you may like to color some
eggshells, and make little Easter gifts of

he nicest of all is to make little flowerpots ompty the eggs that she is using for like a nice little cup. Now color the shells with cochineal, coffee, or the water
trom boiled onion skins, and set each in a little pocket easily made of twine. Put
a little hole in the bottom of the shell, it with nice earth, and plant a washang the little "basket" in her window, and watch the plant growing, and by and
by she can transplant it into her garden can make a Chinaman or Brownie pen-wiper this way: Empty the eggs by
naking a hole in each end and blowing

be the size of a five-cent piece. Now fill the egg, through a little paper funne
that you have rolled and placed in that you have rolled and placed in this
hole, with nlaster of Paris, mixed with Water until it is about as thick as crean
When it hardens, paint the faces on When it hardens, paint the faces on the
eggshell, and paste on the hair or cap made of fringed stick ing-plaster (black) o iringed paper. Last of all, have twe sewn together, and stick the head on this In some parts of Germany, an Eas

II

more water, and gelatine to thicken, but
the flavor will not be as good.
Can anyone send a recipe for sea-ione Can anyone send a recipe for candy

Re Furnishing.
Dear Dame Durden, -1 have receive many valuable hints from the Ingle Nouk,
and it is for this reason, because I rely and it is for this reason, because I rem
so much on your opinion, that I cone to
you for a little advice. We are ittile advic.
and I am undecided how to have the walls of the dining-room finished. Which would be the best way
you suggest a better way still?
(a) To have wooden panelling about three feet up, then the platerail up abov that again
(b) To have the panels run right up to
the plate-rail. (By the way, how high the platerail. (By the way, how high
from thoor is the plate-rail generally placed?)
(c) To have a baseboard, and then have canvas (I do not know the proper name
for it) in a color to run from baseboard to plate-rail.
Would you
Would you leave ceiling and rest o
walls white walls white, or would you have then
painted or papered (or what)? painted or papered about white walls in a new house,
What an
anyway Would you treat them in any way? dining-room will face the south What would be a good cocor-scheme for
it, finished in the way which you would it, finis
prefer ? Are dome-fasteners practical for fasten-
ing a rug to the floor, and is natur stained floors more in taste than that finished with linoleum about the rug "
There seems to be no end to the ques There seems
tions I could tions I could ask you, dear Dame, but
think if you condescend to answer thes you will have gone to a great deal o trouble.
Thanking you in anticipation, and hoping you will long remain in the Ingle
Nook. Oxford Co., Ont.
Sometimes, if the walls are very high, a low wainscoting and plate-rail, such as you suggest, are
wooden panelling is run to the plate-rail, sut this usually looks better for institule
tions, and even then it is not advisable unless a fine natural wood can be used, in which case the expense is considerable.
I bellieve I should like a baseboard, then I believe I should like a baseboard, the
burlap to the moulding (with narrow slat burlap to the moulding (with narro deep,
panels of wood probably), then a deep
handsome frieze,-no platerail, a built-in panels of frieze,-no platerail, a built-in
handsome
cupboard with diamond panes being used cupboard with diamond panes being usey
instead for the pretty china. Above doors and windows, however, a moulding might be placed wide enough to hold
handsome or quaint plates. This is often handsome or quaint plates. This is often
done. If, however, you prefer the platedone. If, however, you prefer the plate
rail, you might have a baseboard, then a ail, you might have a to the rail, that
handsome foliage paper
a plain paper above that. You see, looks like decoration upon decoration
range plates, etc., over a handsome frie range plates, etc., over a hand. This
so the plain background is better. This.
would be very effective. The plate-rail is usually put about six feet from the
floor. By the way, a good water-paint
finder and iso
cost is
attractiv
alls t
moulding be
 smoothly
arts-and-crat
room to be
The ceiling
cream. Muresco
although paper is often
a plain, dull-finished
leave the walls
a while, to s
thought better to do this, and
them done well ond, practicall
A south room always needs rath
colors, gray - greens, gray - blues,
grays, etc., but deep cream and toba
wood-browns are not objectionab or all-though classed among the warme shades-and they have the advantage not fading quickly. In any case, it pays
to get a good paper, quiet in tone, dull

## IHE FARMER'S ADVOCATE

safest if a pattern is ventured upon, al- and serve on a nest made of boiled nough a harmonious blending in frieze or spinach, boiled asparagus, boiled rice, or
in foliage-papers may admit of more than
mashed potatoes, which have been beaten two tones. Pure gray walls need very with cream and browned in the oven.skillful contrasts in rug, frieze, curtains, Boston Cooking School.
etc,
Stuffed
Eggs.-Have etc., to be effective. I never heard of fastening rugs to the boiled as above. sibly, large ones may be manufactured for this purpose. Heavy rugs need no fastening. Sometimes, it the edge is inclined
to curl, the defect may be overcome by sewing a strip of stiff buckram or some such material under the edge. A stained hoor is much prettier than linoleum about a rug. If a covering is absolutely necess
sary, because of ugliness of the floor, fine sary, because of ugliness of the foor, ine
Japanese matting, without pattern, may be used. Ask all the questions you like, Gret-
chen. It is a pleasure to help the Ingle chen. It is a pleasure to help the Ingle
Nook folk in any way.
 put together: Put together with blocks,
put two rows each side of quilt, handles pointing to center of quilt. Now put one row up center of quilt, handles pointing to head of the bed. This way, al
handles point the right way.


## Easter Cookery

$\qquad$ water into a pan. Fut in it 8 egrss, reheat quickly to boiling point, then draw
to the back of the range, cover, and let



Egg Croquettes.


Stuffed Eggs.

Seasonable Recipes.
$\qquad$ Jerusalem artichokes in the ground. Now before growth begins, you will find the crisp and fresh, all ready, with som variety enough for these early sprin days. Here are a few new recipes fo cooking them:
Parsnips.-Boil five parsnips, take off the skins and mash fine. Add a table
spoonful of flour and a beaten egg, mak spoonful of flour and a beaten egg, mak
into smuall cakes and fry to a delicat Jerusalem Artichokes.-Wash the art chokes and scrape them well, putting then coloring. Put to cook in boiling wate to which a little milk has been added Before they are quite done, ${ }^{\text {add }}$ salt
season.
Now you may finish them season. ways: (1) Drain, put them int
several wat several ways: (1) Drain, put them int
a buttered pan, brush with cream or but ter, and brown in the oven. (2) Drain,
cover with a good milk or cream sauce, dot with bits of pepper, sprinkle wit pepper or paprika, and serve hot.
1rain, mash with butter, and serve lih potatoes. (4) With tomato sauce. Drain
and cover with a thick tomato sauc made with juice of canned tomatoc thickened slightly with flour and seasoned Vegetable Oysters. -Let stand in cold water for a while, then wash and scrape
dropping at once into cold water int which flour in the proportion of a table spoonful to a quart has been stirred $t$ prevent discoloring. milk, and cook until tender, adding salt just before they are done. Add milk or cream, let boil up, thicken a very little with flour rubbed smooth in cold milk,
season with butter, pepper and salt, and serve with crumbled crackers on top. A
very little salt codfish or anchovy sauce very little salt codfish or anchovy sauce
added to the vegetable while boiling is 1:scalloped Vegetable Oysters.-Boil as above, letting the water be nearly evap
rated when the oysters are tender. Put ayers in a buttered dish, dredging each lightly with tlour. Cover with hot milk,
seasoned with butter, pepper and ssilt.
Bake from half to threequarters of an hour.
Fried Vegetable Oysters.- Boil as above, drain, mash, season with cream or butter
and cakes, roll in egg, and then in cracker-
crumbs, and bake or fry. Date Cake--Cream one-third cup butter,
gradually adding $1 \frac{1}{\ddagger}$ cups sugar, and beat until light. Add the beaten yolks of 2 eggs, one-third cup milk, 2 cups deur
sifted with 3 tenspoons baking powder, 1 1b. chopped dates, and the whites of the
eggs stifly beaten. Pour into a buttered eggs stifly beaten. Pour into a buttered
and floured cake tin, and bake in a moderate
thoroughly before using.
be cup sugar and 4 tablespoons water untit they thread, then pour over the beaten whites of 2 eggs. Flavor with vanima.
and mix with 1 cup finely-chopped dates.
white Sauce.-Rub together
2 White Sauce.-Rub together 2 table
Wpoonfuls each of butter and flour, stir spoontuls each of butter and hour, stir
into 1 cup boiling-hot milk. Let cook
and season. Serve with fish, codifish etc., or add capers and serve with mut
ton.
Stuffed Beefsteak.- Prepare $1 \frac{1}{2}$ lbs. rump steak by pounding out flat. Spread ove
it a filling made as follows:
One quar it a filling made as follows. one quar, teaspoon sage, 1 teaspoon melted butter
salt and pepper to season. Roul the
steak, tie with cord. and place in a pa steak, tie with cord, and place in a pa
with 1 pint water. Bake half an hour
wets wasting frequently.
whitefish.-l'arboil the fish, and pick Whitefish.-T'arboil the fish, and pick
apart in flakes. Make a sauce of 1 pint apart in flakes. Make a sauce of
milk, 2 eggs, 1 heaped tablespoon corn
starch starch, 2 tablespoons
white pepper to season. $\begin{gathered}\text { butter, salt and } \\ \text { Butter a baking }\end{gathered}$ dish, put in a layer of fish, them some of the sauce with a grating of nutmeg, an
so on, until all is used. Cover the to layer with l, uttered bread crumbs, and
bake wolden brown. Poached Figgs.-Never let the wate
more than simmer, and keep the dis tiohtly covered. When done, serve hot with the following sauce: Melt 1 table spoon butter, add a tablespoon flour, an
Place over the fire, an


CHAPTER XII.- Continued.
April 18. Early tulips ablaze. Al
the narcissi out except the polyanth-
 the . The hardy plants are now turt-
eye. The hon beds with many shades
ing the long Forsythia is in golden
of green. The scarlet quince at full, glory. The scarlet quince at cuink
and the countryside white and pink
with peeach and cherry blossoms. May 1. At last the Garden of
Dreams has awaked. It At Ater
the healthrul winter of snow the the
whole land is a-bloom. All the bulbs are out except the parrot in
lips. iDown by the spring hole in
the wild carden the marsh cowsips are heavy with gold, and the same
color is swept across the pastures by
cote dandelions. the dandelions. Is it not all my
garden Alt the cultivated and the
wild, every flower and fern in the wood and open as well, for not only
what I plant is mine, buts alse very
thing that I enjoy. And the birds
 mar their liberty.
Evan found his primroses yesterday
morning, one tuft showing half a dozen norssoms When I saw his face as h
blolled me to him, holding them ail
call his hand, litealized
lit is the of life that
count, for the primingse was not only
colt






home woods be counted in.
Many come and go, travelling ,


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straw.
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sor
the bablin
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nestlings
voice of
listen to it sympathower
find it has a various vocabular
preted by the human ear.
If the grass is of the right height mat
and condition for the cutting, then is tree
|| the angry proysical is suggested by All garden tools have speech, if the ing. Jenks-Smith has just maddenear is keyed to hear it. The shove- him, and we ve got to fill in the rahoe working on the gravel path, can landscapist was up yesterday, fifty ing out weeds ore merely shuffling ir- was shocked, and says the scheme is responsibly about. And the same
tale is told by the common hoe in
the corn the corn lields. still be in many volumes if there
were were no roses, but, as it is, all else
must give place to the head of a famiy
berry, peach, pear, plum, apple, and berry, peach, pear, plem, shabs.
many of the most useful shrubs.
The scarlet poppies of early The scarlet poppies of early June
introdue a color that seems to belong with and appears dicate hues of the early garden, even as the scarlet tulip looks
gaudy in contrast with the narcissi and iris, though perhaps for well-
blendled richness the hardy flowers of June will match those of any season.
The larkspurs, ranging from white through sky and mazarine blue to a
metallic purple; Canterbury bells of a fine porcelain opaqueness, white,
lilac, rose, and purple; columbines lilac, rose, $\begin{aligned} & \text { of every solid color and the white- }\end{aligned}$ lined varieties, too, that suggest the fairylike blossoms wrought by skill ful glass-blowers, le brave showing against a background of copper beech branches; peonies like great
roses beginning in May with the roses, beginning in May with spires
crimson Jacqueminot color; of old-world foxglove, four feet tall swaying above the golden glow of hardy coreopsis; and mats of Swee
William, white, pink, crimson, pheas ant's eye, and harlequin, that crow the fringed clove pinks almost out of the border. Then, edition of the yellow evening primrose, and honesty (lunaria), the herb of magic, in three tints-white, lavender, and purple.
All these flowers are, of course, im proved by frequent resowing and re-
setting, and by having ample elbow room, and yet nowhere do they seem
so typical, so gracefully lovable, and so typiclly what hardy folk should be, as in the bit of old border that we
have not yet disciplined, where the have not yet disciplined, where the
soil is completely hidden by a tangle
of poppies, sweet William, and foxgloves.
A book of praise might be written to hardy shrubs. June may cerflow
many that in late seasons over
from May-the newer lilacs (though they are never so satisfactory as the old, that, straggling into the hedges
may be gathered by the armful),
spireas, snowballs, Carolina alspice and syringas, while Deutzia, hydran-
gea, and althea carry the shrub flowgea, and althea carry the shrub
ers well on toward autumn. Few things are so permanently sat-
isfactory about the home, acres as shrubs; and the commuter's wife may
find refuge, likewise her table decorafind refuge,
tions, in them when mischance over-
takes more delicate flowers. "Shrubs are an awful bother to
trim, a aren't they?" said the Lady oi the
making her first call after her sum-
mer entry at The Bluffs, and professing astonishmenters.
of our pickable flowe ", We set out a lot two years ago," she continued, "a and certainy shouse
have flowers this spring, but you see the fault all lies in the trimming. The landscapist that started us off
said of course the gardener would know which ones had to be trimmed mer. But it seems he got mixed,
and balled the thing up, so the first year there was not so much as a
spriy of bloom, and hardly a leaf.

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

as short us iny French poodle's hai when h.'s clipped for the summer. Yes dodendrons. two humdren bushes

## qualities of endurance and fragrance,  roge and the rose owo different flow- garden are almost two of course, in Eng- owever. ers, howerer. hamidity that alvays land, with its veils even though it does not ouscurc the sun ditions are more even and like thos There the rose of a greenhouse. There the rose thick fleshed, and sturdy, while the  story windows unchecked, in company with white jasmine; and Marie size of a great lilac bush Those who plant their rose garden with the memory of English roses blending with their dreams must be blending wisted, as well as those who disappoind read the English garden papers telling of gathering La trance to do likewise by buying the latest offerings of the " Yellow Journal " offerings of catalogrees. <br> Of course, the new bushes that we get out last fall will only show their colors and yield a few tardy buds this June, and it takes at least a two-ycars' trial of a bush to prove its hardiness, color, fragrance, and <br> From the crude ore to the finished product, every inch of "D Dominion Special" wire fencing is manufactured in Canada. No other nake this claim You naturally ask what advantage there is in Yound having a wire fencing made entirely from Cana- lian ore. This, that it is natural product of he country, and is therefore better adapted to the severe changes of the Canadian climate than any fencing made from foreign wire

 vigor of growth. But my presenthope is in the old bushes that are proven, and, as they bloom, I shal make a list have small gardens and are always asking for the names of Some of these bushes are old set tlers, like the white moss, Harrison-
yellow, the nameless wine-colored rose of many petals, and Nadame
Plantier, the bush that Dan'l gave me so long ago, now grown a huge
shrub, while its children, trained as vines, are mingling on the rose arbor Verdier, and the shell-pink, thornless blush rose, also an old-time fave of the
in English gardens. Some of others are of later fame, though all
have borne the test of at least a have borne the test of at least a
score of years-the original growth renewing itself from the root-and
one and all are faithful, satisfactory one and all are faithful, satisfactory
bloomers, asking only deep, rich soil, a shelter of cedar beughs in in
winter, a light April pruning, and wo spravings with weak whale-oil while, in return, they will yield armsful, apronsful, yes, clothesbasketsful, June 14. Saturday. This morning, as I was pottering among the
roses, making ready for the June festiva: now beginning, by tying up
branch here and there, and seeing branch here and there, and seeing n case heavy showers should come
when the bloom was at its height, I when the bloom was at its height, I to come from the wood-
direction of the wild walk.
direction of the wis walk. have already transplanted many
ferns and wild plants to the edge of the path, and the trees and bushes
are full of nesting birds that I knew of old used to attract unregenerate

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Fators
 turow oher machines away and buya Tuubra a
than to
and the price of T Tubula time after time.






ward to warn them away, I heard
the voice of the chies the voicies, in that tree is the claylined nest of a wood thrush. In a
mother-bird is now broding. In a mow moments, when you have ob-
ferver her patient immobility will served her patient immobitity, I will
see whether the nest contains eggs or see whet her the nest contains eggs or
young birds; if the latter, we may young birs, if the method of feeding and home sanitation practiced by
on feathered
little sister in the bush." "Not while Barbara and six dogs
", are on the premise3, 1 turught.
Then the whole thing flashed across Then the whole thing tlashed across
my intelligence.
The conspirators my
were doing a intelige Cook's Tour in Birdland! For a moment I expected to
see the group arise solemnly, take see the group arise solemnly, chike
hands and dance around the
from singing ;, "Follow the man fro ing nyy voice, and using father's paific formula for such cases. You are probably not aware that you are trespassing, but this is pri-
vate ground," my
moice becoming
 thrush had left the nest, and was summoning assistance by means of
her cluck of alarm, which was instantly answered by the near-by rob-
 bird's " miiou" from the garden, as Well os, not at all, not at all,", said the chief, , beaming upon me patroniz-
ingly, That is, I mean we are ingly. "That is, I mean we are
not in any way trespassing. We are studying birds-a Bird Class, you
know course. I was aware that Know course, I was aware that
his iand belongs to the doctor, and hat is the very reason why I have.
chosen it as a meeting-place for my class for the next two weeks, as 1 hear that he has that more species
a long periond so nesting in a small radius than in any place conveniently near town. This fact guided my
choice, for we've quite exhausted the city park; and later on we are going into the deep woors oo observe
the moulting, and to differentiate the plumage of young and ade and
Ladies, look quickly
the female wood thrush is just above your to attract the attention of her young
ther size, and the dil ference in the breast marks.

To be continued.)
Youngwed-T always erack up my wife's
bliscuits.
Mr. Bachelor-Heavens : Are they as
and

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The Goddesse


only tivive perhaps, (I do not know times it may bo, light damsols whom our
tathers woud have called wantons
nut


 Thery
represerted and to to the contemporary ese the the

 Naked tiemales then just begining to or
pose themeselves to the camera, and no

 theater, on the sages in the streide every
man of tus has become a pepering gom

 are wers narly undesesed; at whole brood





 itaral womanhood that hovers dimly be
orere most men's minds at some period of
 Brithan Columbia. With two companions







 wall, and on another, above the stove,
three photographs. One was of a side
wiskered elderly gentleman, another that







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



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## Please Mention The Advocato

of cheap finery about the neck. The pure, and noble face in the nun's drapery
seemed to smile with a gracious inseemed to smile with a gracious in
dulgence on its commonplace rival. my young pioneer had, gone the way of
many men before him, and had got his feet upon the comfortable earth after a brief flight into the azure. He had descended upon the Real Woman, and would
make her, I daresay, no worse a husband for having conversed for a space with he Ideal.
-Sidney
Low, in British "Nation."

## Conscience Makes Cowards.

A quiet, bashful sort of a young fellow A maiet, masing a call on a Capitol Hill girl
was evening not so very long ago, when
one one evening not so very long ago, whis
her tather came into the parlor with his
watch in his hand. It was about 9.30 her father came in hand. It was about 9.30
watch in his hand
atche was standing on a chair straightening a
picture over the piano. The girl had picture over the piano. The girl had
asked him to fix it. As he turned, the
old gentleman, a gruff, stout fellow, said: asked gentleman, a gruff, stout fellow, said:
old
.Young man, do you know what time it is ?"
The bashful youth got off the chair nervously. "Yes, sir,
was just going." ley, went took his hat and coat. The giri's father followed him. As the caller
reached for the door-knob, the old gentle reached for the door-knob, the old gentle
man again asked him if he knew what
time it was., the youth's reply.

$$
\begin{aligned}
& \text { time st was,: was the youth's reply, } \\
& \text { "Yes, sir," } \\
& \text { "(iond night !" And he left without }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Goid night. } \\
& \text { waiting to put his onat on. } \\
& \text { After the door had closed the old gen- }
\end{aligned}
$$

tleman turned to the girl. "What's the matter with that fellow?"
$\qquad$
he asked. "My watch ran down this

Up at Cobalt Make a pile of monoy,
Y lose the pile you've go lose the pile you've got,
ou may find a paying silver mine or find, just where it's not

Some people there get wealthy
But ten to one you'll find
That lots of wealth of which they boast That lots of wealth of which
Is simply in their mind

You hear of veins and ledges And promoters by the score,
And if you have some money there They'Il love you all the more

```
They point to snaps and options
```

Where there is wealth galore,
And whisper that they'll let you in
They speak of this and that on
Coming here a year ago,
whillion,
Who now are worth a millio
You think, perhaps, you'll take a shot
Just have a little "shy,"
Then stand aghast to see ho
They make your money dy
You wait for coming dividends.
But lemons come instead,
It don't take long to figure out
It don't take long to figure out
How far you are ahead,
How far you are ahead,

Teacher-Who is the greatest inventon guess. I see his name on more inven-
gions than I do any other man's.-Chi-


The Horse and the Dog: and the Man.
The horse and the dog had tamed a main Said the horse to the dog, "For the life In lot metng him have the thumbs that grow at the sides of his hands, do your"
And the dog looked solemn and shook his
 The poor man groaned and tried to get "Stay!" You will rob me of thingg for which have use by cutting my thumbs away!
You will spoil my looks, you will cause mo pain! Ah, why would you trent mo pain)
mo mo ?
As I am, God made me, and He knows,
The dog laughed out and the horse re plied, "oh, the cutting won't hurt We'll have a hot iron to clap right on God gave you your thumbs and all, but still the Craator, you know, may fail
To too the artistic thing, as he did in
furnishing me with turnishing me with a tail!
So they bound the man and cut off his
thumbs, and were deat to his pititul And they seared the stumps and they Mewed their work through happy and
dazzed eyes.
"How trim he appears," the horse ex-
claimed, "since his awkward thumbs claimed, "since his awkward tuumbs
Fore gone
For the life of me I cannot see why the Lord ever put them on
"Still it seems to me," the dog replied,
 Ha ears look rather long
how do they look to you?"
The man cried out, "oh, spare my ears God dashioned them, as you see.
And if you apply your knite to them
 When you bound me tust and trimmed


Prom start to shipment, it requires fifty to sixty days to turn out a satisfactory
product. The various operations might product, The various operations might (1) Treatment of the milk-skimming, heating, curdling, dividing the curds, draining, putting into moulds and scat-
ering with powder tasting, hardening ${ }^{(2)}$ (2) treatment heese at factory-receiving and weighing, ing and classifying, placing in caves, first turning, second turning, maturing in caves, second turning, second classifying,
maturing continued, third and last turning before shipment.
ing before shipment.
The preparation of the bread is a long and interesting part of the process. A special kind of bread is moistened and
left to mould in a cave for about two left to mould in a cave for about two
months. It is then cut into small pleces, dried, ground, and bolted. The powder thus obtained is scattered over the layers
of curds as they are placed in the moulds. This makes the bluish-green streaks noticed in the cheese, and helps to give
Roquefort its aroma. Roquefort its aroma.
The caves perform an important pa in the fabrication of this cheese. It largely by maturing and mellowing in
them that Roquefort cheese is celebrated them that Roquefort cheese is celebrated
throughout the world for its delicate throughout the world for its delicate
flavor and particular aroma. These caves are excavations, some natural and some artificial, hollowed out in the side of the steep and rocky mountain which domi-
nates the little village clinging to its nates the little vilage clinging to its
side. They are cold and damp, but ventilated by the air which penetrates
through the fissures in the stratified rocks through the fissures in the stratified rocks.
There are several stories in each cave There are several stories in each cave
containing shelves on which the cheese is placed.
After the cheese ripens or mellows After the cheese ripens or mellows for
about forty-five days in the cave, it is ready for shipment or to be placed in the refrigerating rooms. which are cooled by an ammontac process operated by electric
machinery.

Entertaining a Prejudice.

The strange part of prejudices is that one would think they would prefor more
commodious quarters. But no, the narrower the mind, the more content they are. They don't mind close quarters, Prejudice Ih the are not tampering with $\begin{gathered}\text { pose's } \\ \text { onesesight }\end{gathered}$ they are screening the mind from the open; putting blinds on, and making
dark enough to sleep in comfortably. A man can get insured againgt almost anything else but prejudices. He can insure himself against fire and water and
loss of life and accidents and depreciation loss of life and accidents and depreciation
in his property. But there is no company so fortified that it would take the risk of insuring against prejudice. And
then no man would ever think of taking out any insurance against one, because he would never admit that he lad it. The prejudice himself fixes that. The
first thing he does is to make the man think he isn't there.
much is why prejudices, no matter how are never evicted. They have come to
to stay.-Thomas L. Masson, in Lippincott's Magazine.

## The Antis.

$\qquad$ where up the state, some the coming fate, lecturing here and there Wife and Mother, Home and Child Another of the Antis-a mother of thir Ww Votes for Women coming and stepped boldly on the scene packed her little carpetbag and went
from Troy to Rome, preaching to creation that '
Woman's Place is HOME ,", And there was still another-with a hus-

Good Form and the pse in Speech
 rritic, "riey end precept, not upon any-
corded rule and be taught or learned, but thing that can be taught or learned, but may, indeed, be cultivated and still more
enned, yet which is itself the tairy birth gitt that
possessor.
tact, the discerning of delicate distinctact, the siscerning or enining in words
tons and shades of
It is far removed from and expressions. It is sar removed from
vanty
velection or pedantry. It permits the truly initiated person to use language ness " that always "resp bounds of good taste. The initiate

berson does not fear to be colloquial, bu | person does not |
| :---: |
| is theves vulgar. |

 hocabuary in tashion. Words which ar
hange
hsed tor a time are quickly dropped a oon as they are adopted by the nulti-
fude. The word "swell", "has long agg

 Ale. An examplo is in the famous social orlyinated the phrase, "The Four Hunred." "This expression is so absolutel
dud out now, that anyone who ues vould show ignorance. diang has been aptly defined as a so
Slan at "vagabond language," which forces its orten it is descriptive, but it needs dis. nd the avoidance of it is advisable. It gives one a shock to hear it from the
lips of a pretty girl, who spaks of hav-
Ive anyone assent to a statement by saying, vulgarisms. Very small things in talk reveal refine ment of personality or the reverse., Words
Which are bad form are "wealthy," "ele-
 "plain." No one who knows the dis-
tinctions in refined words would say
 sions "Iady friend" and "Eentleman frrenald
ure never heard in social life, and would stamp a person immediately as being Hrovincialisms are peculiarlities of speech
Which should be resolutely corrected
 way be classed among these.又o verson of education would use the
expression, "."Say, Mary,", when wishing
 Versation.
Grammatical errors are inexcusable
and Contusion in the use of pronouns is
tatal mistake.
An
educated pers would not say, "It is me," or "Mary an
me are golng," or "sarah is coming t
 and M, but would say, "It is I," Mary
and I are going," "arah is coming
see my sister and me," "Between yo



 promunate them,

$\qquad$
$\qquad$

\section*{| POUTTRY |
| :--- |
| COANGS |}




BUFF ORPINGTONS Eggs That Will Hatch

Hugh A. Scott, Caledonia, Ont.




 $\mathrm{B}^{\text {ARRED }}$ AND WHITP Rock reas-st.00 Gratton, one 1 ontario.





$\mathrm{B}^{\mathrm{ARRED}}$ Rock Eacs-Oholeo gtook, ond






 Collo









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## $\underset{\substack{\text { cotorer } \\ \text { and } \\ \text { Beal }}}{\mathrm{F}^{0 \mathrm{~B}}}$




orex

$$
\underset{\frac{2 x+t}{4}}{\mathrm{H}^{\mathrm{A}}}
$$


























$\mathrm{U}^{\text {TILITYY WHITE }}$ WYANDOTTES-ERg8 tor

 $\mathrm{W}^{\text {HITE }}$ HYaNDOTTRS RXCLISIVELY








## Pleasant Valley Farms

 EGGS FOR HATCHING.
## 

 Geo. Amos \& Sons, Moffat, Ont. S. G. HANSON'S STANDARD WHITE LEGHORNS The breeding hens for the season 1911are part of the fock of 402 pullets which
in January, February and March estabin January, February and March established a reord for focks of that ilize, dy the breading pens are bred from trap-
theated hens with individual reocrds in therr pullet year of 200 egge and over. Birds from these matings must give ex-
ceptionally good reante.
Book
Bour eptionaly goo resurs. ( you want early-laging pullets.

EGGS FOR HATCHING
March and Aprll- $\mathbf{8 3 . 0 0}$ per 15; $\mathbf{8 1 5 . 0 0}$ ${ }_{\text {May }}$ \$22.50 per 15; 812.50 per 100. June- 82.00 per 15 ; 810.00 per 100.
Prices of day-old chicks on application. S. G. Hanson, Hullerest Poultry Farm, Box I47, Duncan, B. C.

## Pouliry for Sale

 Try mei Send Co.D. No waithn tor your moneryPERKKiNs, 1830 Dundas St., Toronto The Change He Needed or his brilliant repartee and biting sarnoe at a political meoting, but before he not
interrupter had ch the sentence, 'And so am I." But the retort, was as quick as it was
verwhelming. "Yes-but you are not all there!" "What do our opponents reanly want momentray pause that followed the ques-
tion there came a voice husky from the effects of alcohol, "WW.
change of Government."
No, no," was the ready reply d"what
."Willie, did you put your nickel in the
contribution tox in Sunday-school to-day?

$\qquad$



QUESTIONS AND ANSWERS Miscellaneous.

## ENLARGED LEG

 Valuable mare had lymphangitis, and itKindly publish a recipe for an absorbent liniment that would possibly reduce the same. Ans.-An excellent authority advises
light feeding, regular exercise, hand-rubbing, and bandaging, and the administratwice daily. If this affects the appetite, the dos
grains.

PRIZEWINNING HORSE that that was the name of the hors Livestock Fxposition at Chicago, in Dedale stallion class
2. What was the name of the sire?
3. Who was his owner? J. B. A.

Ans.-1. Very Likely (14883).
2. Durthar (11695).
3. Mel ay Bros., Janesville, Wis

COwS EAting wood.
My calle eat wood. They are in good

Ans,-- chewing of wood becomes,
with some a cows, a chronic habit. It is
beliey
With soll cows, a chronic habit. It is
believill in induced in the first place
by deti $y$ of some of the mineral ele-
ments food, the lacking element be
ing m
ing m $\quad$ orably phosphoric acid.
such c fertizing the land with bon
meal.
meal, hates, and sometimes lime a,
ashe esult in the growth of fod
that animats re
containing plenty of nitroge
nous
such as clover, alfalfa, bran


## A CANADIAN SCHOOL FOR BOYS. RIDLEY COLLEGE

St. Catharines, Ontario.
Three separate residences; new, specially built and equipped. 1. Lower School for Boys
under tourtren. 2. Dean's House, for Boys of foutteen and fifteen. 3. Uper School, for
U.
 Acholarships won in 1909 and 1910. Boys prepared tor Agricultural


## RECIPROCITY

You do not need reciprocity if you buy your drills direct from us, without selling expense. We manufac ture the IMPERIAI HORSE-LIFT DRILL. Let us tell you why this drill is the
best drill on the market to-day.

THE W. I. KEMP COMPANY, LIMITED Stratford, Ontario.

cultivation between plowing and time to
prepare for seeding ? 2. What is the proper way to give and prepare cow's milk for a motheriess lamb. and how much to feed it at ones? J . Ans.-1. -It would be -all right to plow
sod for peas immediately before sowing sod for peas immediately befote sowing,
but there is usually considerable time before the ground can be worked for seeding when sod can be plowed, and plowed
the the most easily. It is wiss to do it
then, and save time later. Besides, plowed ground, it harrowed down, is
acted upon by the acted upon by the elements, and becomes
better fitted for growth 2. Whole milk, warmed to blood heat,
is the best feed for orphan lambs for the first six weeks. ^iter this, warm sweet skim milk may be fed. It is well to teach a lamb at the first to drink from
a pail or dish but in a. pail or dish, but if the lamb is very
weak, a bottle, or horn and nipple, may weak, a bottle, or horn and
have to be used for a time.

GOSSIP.
The four-year-old Clydesdale stallion, Brogie's Stamp [8865], is advertised for
sale by D. C. Flatt \& Son, Millgrove,
 [4785], by Prince Thomas, dam Imp.
Grace, Anderson, by Up-to-Time, by Baron's Pride, dam by Macgregor, by
Darnley. Brogie's Stamp is represented Narnley. lirogie's Stamp is represented
as a show horse, sound, and without a
fault, and will be priced right fault, and will be priced right to a quick
buyer, as the owners do not care to keep a stallion.
TEXAS PHILOSOPHY
"Many a man."
Many a man," remarked the home days in telling a girl that he is unworthy of her, and his married
proving it."-Houston Chronicle.



HE real proof of the strength, durabilit, and value of I HC wagons is what they have done and are now doing for thousands of armers
throughout the Dominion. Light loads and heavy loads have been carried by I H C wagons, over good roads and bad roads, for so many years that names on wagons represent

## Petrolia Chatham

Either of these should be your choice if you want to be sure lifetime service. The quality in boe, and the use of the best materials, shaped years of wagon-building experiece, the finest manufacturing equipment.
Petrolia Wagons are constructed of the finest quality wood stock which Petroughly seasoned by being air dried. The ironing is of the very best. The inspection of each part is most rigid. Petrolia Wagons must be made so that they will live up to the I H C standard of excellence or they are never sent out of the shops.
Chatham Wagons have a long record for satisfactory service in Canada. Made with hard maple axles, oak bolsters, sand boards, rinard of wagon and oak or birch hubs-they represent the it is with the assurance of construction. When you buy a chatham wag of it
getting the utmost service and c local agent. Get a pamphlet. Let him show Be sure to call on the 1 er literature or any other you one of these information you want
EASTERN CANADIAN BRANCHES-International Harrester Company of
International Harvester Company of America


## "BANNER" ${ }^{\text {mom LLANTERN }}$

Welcomes


Double-seamed well, cannot leak

Automatic
lift-lock, won't lam fingers

Perfect
combustion
Windproof
No More Than Inferior Lanterns
0 ario Lantern \& Lamp Co., Limited HAMILTON, ONTARIO.

QUESTIONS AND ANSWER Miscellaneous

PROMISSORY NOTE. ut $\mathrm{B} \$ 300$; B gave a note for the
ight months ather date; $\mathbf{B}$ 's wife's
 y place in Canada?
2. If B got a job on the railroad, could
友 garnishee his woanes each month; or
would he seize on property it he had any; $r$ what would be the best plan to tak
? he did not want to meet the note?
BUFFALO BILL. Ans.- - . Yes. Yould depend largely upon the
2. It wuld
aws of the particular Province in which aws of the particular Province in which
3 happened to be employed or resident. In the event of the note being dishonored he hands of a solicitor for collection. SHOCKED CORN IN SILO. Will it be advisable for me, having my
itio, which is $12 \times 13 \times 22$, refilled with
ilage? My silage is just done, and has
in silage? My silage is just done, and has
kept fairly well. My silo is cemented up four feet all around inside, and hus a
rod running across through center, which keeps it very firm. The corn is all well
put up in three long stooks. It was well cured before stooking. It has been badry dritted in with snow this winter.
Some claim the silage will not heat properly, and will, therefore, be of no use.
Is it advisable to put. water on it. have enough corn for about thirteen to firteen feet of silage. W. R. C. Ans.-We would not advise filing a silo at this expect it to mold. We have had
should exper reports of silos being filled in October
and November with shocked corn, usually wet when run through cutting box, which
was
 unless in emergency.
would be still more questionab
and fract, we should anting LARGE TREES -ROOF FOR SILO

1. Can cedar shrubs from ten to fiftee feet high, be raised uninjured, and suc-
cessfully transplanted around buildings for cessfully transplanted around buildings for
ornament and shelter; and, if so, by what ornament and she raised? Give full par-
means are they rase ticulars as to raising, and time of trans
planting. The trees are growing ou dry planting. The treses are growing
land, and are large, bushy trees. 2. Which is the best roop for a cement
silo 12 feet diameter inside, and how put
Por Ans.-1. If anyone is willing to go to
the necessary expense, and to take the time, he can transplant large trees suc-
cessfully. There must, of course, be as large a percentage of uninjured roo
taken with the tree as possible. taken with the trood plan is to dig a
secure this, a very goo
deep trench in the fall around the tree, some distance from the trunk, and cut off
the main roots, then fill in with straw or the main roots, then fill in with straw or
other material which will prevent the other matiaing. Atter the ball of earth
ground freezing. ground rozen solid the straw may be re-
has free with the ball of
moved, and the tree, waised by means of a windlass or earth, raised
levers, placed upon a stoneboat or sleigh, ed. The hole for the tree should, of
course, have been dug in the fall, and
vrotected from freezing by straw or covering. Care should be taken to fill
in earth as closely as possible around the
roots. roots, and a generous mulch should be
provided for the summer, to retain mois-
pros trees this spring, have conditions as near as possible to what is recommended above,
covering the roots to protect them from covering the roots to protect them from
the sun while being moved.
2. There is no best roof for silo. Look
up "'The Farmer's Advocate" of July
 inexpensive roors are described and illus
trated. These may briefly be described as conical, having plates of two boards an
anch thick on wall, Pour ratters, four fals Inch thick on wall, four. rafters, Pour false
rafters dividing spaces between the others,
Boards tein leet long, ripped diagonally, nailed to
to
plate, girths and peak, form roof, cracks
pattened with strips


Besides being everything else
that is good in a Horse Brush, this is a Sanitary and Dustless.
Brush. It carries a chamber in the metal bark designed to holl
terosene. and distributes it as
required. Kerosene is the best germ-kill-
known; It tot only cleans the er known; it i, ot only cleans the
hair but p pevents attacks from
yermin and small fllesi To kep your horse or your
cattle free from thcse things is cattle free from these things is
fumane, but it is also most wise
because it holds them in good This splendid brush will be sent you on receipt of $\$ 2.75$ registered, post prepaid. $\underset{\substack{\text { Our guarantee-If you are not } \\ \text { watlorled after a ten dayw trial }}}{ }$ return the brumh to un
money will be refunded.
the sanitary horse \& CATTLE BRUSH CO.
29 Colborne St., Toronto

g Advertisers, Please Mention "The Farmer's Advocate.

## YOU $\underset{\text { THIS }}{\text { NEED }}$ CROP BUILDER!

You can increase your crop-yield manure fully five dollars a ton many per cent. with a SUCCESS when you spread it with a Success. Manure Spreader - the machine For then it is pulverized-and dethat's modern. For with it you lifecan quickest and most easily ean spread the manure-little-there. utilize-to your profit and the You increase the value of your farm land's permanent betterment.


Keith's Seedls
are good, and are of exceptional value. If you feel there is no time to get samples, and you have never done business with us before, send in your order,
and we will ship C. O. D. to your nearest station, and grant you permission to
examine goods before paying for them. We will pay the freight in Onexamine goods before paying for them. We will pay the freight in Ontario on clovers and quoted are F. O. B. Toronto.




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We offer good clean beed of the following


SENI) FOR CATALOGUE.
Geo. Keith \& Soms 124 King Street, East, Toronto, Canada. SEED MERCHANTS SINCE 1866.


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Selling this fully guaranteed, eight-
piece Kitchen Set. Write to-day piece Kitchen Set.
for our agents' offer.

May Mfg. Co., Elora, Ont.

When Writing Advertisers, Please Mention "The Farmer's Advocate."

QUESTIONS AND ANSWERS
Miscellaneous.
VENTILATING BASEMENT I am building this spring, stone base
nent $40 \times 70 \times 8$ feet high, for barn, and ment $40 x 70 \times 8$ feet high, for barn, and
would like to know the best way to venthate the same. How many intake
fines, and what size they will need to be? Would one or two large pipes do,
it run underground, say a hundred feet if run underground, say a hundred feet
back from building, so that when the back from building, so that when the
fresh air would enter basement the chill wesh mir we of it? What size of pipes
would be ofut
would be required for the outlet? would be required for the outlet? J. C.
Ans.--L.ook up Prof. Grisdale's excellent Ans.-L.ook up Prof. Grisdale's excellent
article on ". "entilation in ". The Farm-
er's Advocate" of March 23rd, page 503 . sex co.. Ont.. of which an illustrated WHITE SCOUR


ANDREW WATSON, ${ }_{91}^{25}$ Front St, East, Toronto, Ont

Do You Want the Cheapest and Most Durable Roofing? USE durability brand Mica Roofing


eczema-RURAl delivery 1. I I have just lately got hold ot on
aged h horse, undi, juagigy trom the looks
 no sems to be more ithy all over his
oods now whan either at tail or mane.




 Mishit and morring every alternate weht
tor a month or six weeks. Iorm of petition tor to thed shous apposplyce Deper






vouldnet miss him Volice Sergeant-"- Can you give me
drecription of the person who ran orvit
"Ot can that. He had on a fur

## Dr. Williams' Fly and Insect Destroyer

is manufactured solely mor, MORRISBURG, ONT.
BAKCR \& BOUCK, MORRISBURG, ONT.

Points of Emphasis.
dr. Williams' fly an
farmers' friend
Protects horses and cattle
3. A perfect disinfectant
4. Perfectly harmless.
7. Increases supply of milk.
8. Kills all the bad germs in your stable, henhouses, etc., prevents abortion in cattle. Has cured distemper in two days. B. - Finest vermin destroyer and disinfectant known

Notice The general satisfaction cows
will manifest when freed from the annoyance of flies.
The increase in the amount of The increase in the amoul The comfort and ease in milking.
The hen get busy at her nest to The hen get busy at her nest to
lay the golden winter egg. lay the golden winter egg.
The absence of hair-lick on the The absence of hair-s.
cows's. sides.
The healthy condition of your The healthy condition of your
porkers' epidermis. porkers epidermis. and use DR.
Be progressive and
WILLIAMS' FLY and INSECT DESTROYER. We guarantee i to do all that we claim for it. If no
satisfied, we want to hear from you satisfied, we want to hear from you
The Three Grandest Disinfectants: 1. Sunshine 2. Air; 3. Dr. Williams' Fly and Insect Destroyer None genuine without
yellow label printed in back
J. A. Brownlee, 385-7 Talbot St., London, Ont.
J. A. Johnston \& CO. 171 King St., East, Toronto, Ont John Fowell Travelling Representative Woodstock, Ont

Shall we assist you to organize an independent rural telephone system?

are a progressive man and recognize the need of a telephone stem in your locality, but you don low on to furnish accurate information i egard to every detail of the organiza on and incorporation of rural and ocal telephone systems. If desired e will furnist you wh copies by-laws, and wilient telephone service for your locality.

Our business doubled in volume last ear. This fact speaks well for the high standard of quality we put in our elephone products. As
FREE TRIAL OFFER.
Get our prices on construction material. We can give you prompt shipterial. We from stock.

## Canadian Independent Telephone Company, Lilmited 20 Duncan Street, Tomohto



## STEWART \& MATHEWS CO., LIMITED A few good agents wanted. Galt, Ontarlo. <br> NORTHWEST FARM LANOS <br> Half 2 million acres ot wild and impro, cially selected in the most fertile districts. <br> Special excursion in the spring to see these lands. <br> pocial and location.

QUESTIONS AND answers. Miscellaneous.

[^2]0


## FUREKA Wason Box. Rack <br> After a farmer puts the "EUREKA" on his

 wagon, he marvels how he ever managed to get along without it. The "EUREKA"' can be instantly adjusted forany load you want to carry-Hay, Live Stock, Corn, Wood or Poultry. any load you want to carry- moment without wrench, hooks or rope, yet
Placed in any position in a momest it is impossible for the wings to get out of position. WARA NTEED TO CARRY TWO TONS IN ANY POSI'T,
lengths-and 38,40 and 42 inch widths.

$$
\begin{aligned}
& \text { lengths-and } 38,40 \text { and } 42 \text { inch widths. } \\
& \text { Some of the other Eureka Limes }
\end{aligned}
$$

$\qquad$ Lios absorb, nt wood Top, is clear
glas. Churns by hand levercleanest, glas. Churns by nan the Market, 8,10
easiest, best churn on the
and 12 Imperial gallon sizes. "Eurek". Seed Drill will handle the
most delicate seed without bruisink

 omp.ete wheethoe, phanacutivator. machinery. Weighs 50 pounds. Write for Catalogue. Every fod, woodstock, ont.
EUREKA PLANTER Co., Limited,
able to consult, recommend simply warm,
whole milk, for pigs that have to bo raised by hand. If pigs have never nursed, got to take the place of the laxative first milk of the mother. The milk of a new-
ly-calved cow might, if available, be tried COATING TOB CIVIENT SING FOR CEMENT
SCRATCHES.

1. I veneered my house with cement
blocks last summer. Is there any way o paint the corner blocks? What kind of paint would be best to use? How
would I have to put it on? I would vike to have it white. 2. I would also like to have a good
remedy for scratches on horses. Ans.-1. Ordinary paint should not be
applied to concrete structurea ap,
oil combines with to the alkali in cemen ing the surface soap, and disintegratcement are sold at $\$ 1.50$ per gallon. gallon will cover 800 square feet. a purgative ball (except with mare in foal) of 8 drams aloes and 2 drams ginger. Apply hot linseed-meal poultices to
tre pasterns for two days and nizhts, changing the poultices about every eight hours. Then dress the parts three
times daily with oxide-of-zinc ointme ter times daily with oxide-of-zinc ointment, to
which has been added 20 drops carbole
acid to each acid to each ounce. Do not wash. If
the parts get wet or the parts get wet or muddy, rub well
until dry, or allow the mud to dry, and
then brush off, if you have not time to ALFALFA PODS IN SEED OATS.

## A Good Bicycle in the House <br> IS WORTH TWO CHEAP ONES IN THE REPAIR SHOP

Recause a good bicycle is always at your service<br>Always ready for your work and your pleas ure.

Always ready for you to ride into the village or into town.

Notice headline: "Worth Two Cheap Ones-

Only two? Are fifty bicycles you cannot use worth anything at all?

Tr wore an moloyer men as often away sick (in the repair shop, so to speak), would you keep that man on?

No: you would let him go
The only way to avoid having a SICK whee
is to know the marks of a Good Wheel.

The Marke of a Good Wheel

> REPUTATION.-Ask the man who owns leveland," a Massey "Silver Ribbon, brantfurd," or a " Perfect
They are wheels perfected during years of ex rience
FRAME--Best British seamless tubing, rein orced join
ust-proof
PLATING is over a copper base ; heavy ; rust esisting
CUSHION FRAME.-Ask the man who own Cushion Frame Bicycle if using it isn't joy Bre " der who doesn't want to " fuss " with compl cated mechanism
TIRES, RIMS, SADDLE.-Tell us where you ive, and we will tell you where you can see firs rims, and saddles

BEARINGS.-Dust-proof, and absolutely ac curate.

MARKS OF GOOD WHEELS


> Cut this out to REMIND you to write the Canada Cycle \& Motor Co., Ltd., Toronto, for their illustrated Bicycle Catalogue. They will also tell you where you can get one of these Wheels.


Dr. Stewarts
Pure
Conclition P
con horm

mecian cor


## QUESTIONS AND ANSWERS

 MiscellaneousLENGTH OF SURVEYOR'S How many feet in length is a sut
veyor's chain, and how many inches in link? Is there a standard measurenu-
or are there different chains? I or are there different chains

Ans.-A surveyor's chain is 66 feet
longth, and there are length, and there are 7.92 inches in
link. In railway surveying, feet long is often used, but that is for convenience. The standard for the
real surveyor's chain is, and always has been, 66 fect. ANGORA CATS-FLOOR POLISH1. Where can Angora cats be purchased,
and at what price (not prizewinners)? 2. What brand of floor polish is considered best for hardwood
3. Please give recipe for making maple cream candy. SUBSCRIBER'S SON Ans.-1. Angora cats could doubtless be urchased through a small advertisement
in the Wants and For Sale column of in The Farmer's Advocate."
". Consult your local hardware dealers. 2. Break a pound of maple sugar into
3. Brace small pieces, and
a cupful of milk. Bring to a boil, add a cublespoonful of butter, and cook until
a table
a little dropped in cold water becomes brittle. Take from the fire, stir until it
begins to granulate a little about the side of the pot, then pour into greased pan.
when partly cold, mark into squares with When p.

TRANSPLANTING APPLE Some twelve or thirtee
$\qquad$ planted an orchard of about twenty-five
trees. The fourth or fifth winter they all died but thirteen, mostly on account
of ice lying on the lower land all winter, as the plot is rolling. . I replanted once.
but none of them gree. Will you please
bell me as to the advisability ol moving tell me as to the advisability of moving
those trees to a more suitable location. They measure across the trunk, near the
ground, from 4t to 6 inches. Give the ground, from 4t to 6 inches. for doing
best method and time of year for
so
SUBSCRIBER. Ans.- These trees are not too large to
move, provided the work is properly done, but the operation would take some
considerable time, and would be expensive. considerable time, and the tree, and work
Begin several feet from the
towards the tree, exposing the roots with towards the tree, exposing
as little injury as possible. It io desir
able to get out as a large a proportion of
the root system as possible without injury. It will, of course, be impossible to
do this work without destroying a large
number of roots, and to balance this loss number of roots, and to balance this loss
the tops should be cut back with corresponding severity. The work should be
done carly in the spring, before grow th has started. Tree should be set at the
same depth, and soil made very firru
about the roots VARIATIONS IN FAT
OF MILK.
$\qquad$
$\qquad$ Questions-and-Answers column, that by ny amount of fat in a cow's milk. If this
is son, does it not mean that the cow will
always give milk contain Wrays give milk containing the same
amount of fat? If it does meat milk is the object of than once? Oring a cow's
mit a mis-
take of mine to think that they do test
mone then Ans.-A cow's milk varies in its fat content according to many infued of lacta
among them being the period of tion, though length of time between mill ings, disturbance of cow before and
time of milking, and a great many oth
tantors come in to complicate the prol lenn. A great deal depends upon the in
dividual caprice of the animal. What duces the fat content of one cow's mi
may have the opposite effect upon a
other
marked fluatuation, one way or the other.
but no particular feed, by reason of its constituent quality, will permanently in-
crease or decrease to any material extent





CURES ECZEMA
tow Tilles. Rume. Siealds. (Yay yub Hands and Fice:
 th is menty reme it.

Write for Free sample bincluse 2c. Stane for vosiacil
Soc, a Box at all deaters or upon receipt of price from

THE ELEOTRIC BEAN GHEMICAL CO.. Lth. OTTAWA.


QUESTIONS AND ANSWERS Miscellaneous.

RECIPROCITY AND PULPWOOD. Please inform me to what extent, and
from what lands, pulpwood is to be allowed free into the States, by the new reciprocity trade armeoment?
Ans.-By a provision of the trade-agreenent, pulpwood was to be allowed free Provinces remove all export restric the Provinces
PAY FOR BUTTERMAKING Will you kindly tell me what proportion of butter should a woman receive for churning the cream and working up the butter, her husband being paid by me for taking care of my cows, milking, strain ing, and running the milk through the separator? I own all the cows, and bea the expense of feed, etc. All that she would have to do would be to ChaDER work up the butter? A READB fair. CONTINUOUS OESTRUM have a young mare, four years old which appears to be in season all the time, and this certainly is very disagreeable in working her. Could you kindly tell the cause of this, and if there is any treatment I could use for her? Would you
advise breeding her; and, if so, is ther advise breeding her, and use till time to
any treatment I could any treatment I could A Se the
breed her? Ans.-This indicates a diseased condition of one or both ovaries, and
diseased, nothing can be done. It is possible if she were bred, she would co ceive, and the ovaries might recov
normal condition during pregnancy WEIGHT OF SILAGE-MANGELS 1. How much silage is there in six fee in the bottom of a silo $12 \times 14 \times 30$ feet, the silo being full in the fall?
2. With turnips and mangels selling at 8c. a bushel, how much a ton is silage
worth. it being the very best, well ma worth, it being the very best, well m
H. R cured and well saved? six feet of settled silage in a silo th
had bren full to the depth of 30 feet should have an average weight of at thi
56.4 pounds to the cubic foot. At teet, woult wryh about 28 tons.
2. It will depend upon the purpose fatening cattle, receiving a suitably-ba or $\$ 2.66$ a ton, should be "quivalent
first-class corn silage at about $\$ 4$ or $\$$. a tonced ration, it might fail to give a
balance
good an account of itself as these figure denote. Again, it should be remembered
that a few mangels might be profitably
ted at a fed at a figure above what they would
worth in laryer quantitieg,

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It cuts smooth, levels and covers the grain better than any other
Perhaps slightly higher than some others in first cost, but in the end much cheaper, because the teeth can be taken out and sharpened so much oftener than any other. They are left extra long for this purpose.

The Teeth are held to the Frame by a malleable Clip and Staple with nut on each end, thus the teeth can always be kept tight and at the right distance down to properly harrow the ground.

A Harrow may seem a simple thing, but we have put Hamilton Quallity into ours, and it will pay you to have one.

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Have You Seen The New "Gall" Shingle? In justice to yourself, you should at least investigate "Galle" Steel
Shfingles before deciding on the roof for your nev barno or the new roof for your old barn. Present wood Shingles are failures and are being
discarded - to use them is a step back ward. Don't put a fourth-class roof on your first-class barn. "Galt") Galvanised Steel Shingles is the roofing, mow and for the future. Roof your new barn with "Gall" Steel Shingles and you won't
Listen, you won't have time two months hence to investigate this roofing question. And yet the roof of your barn is an important part of your real estate and sliould be selected carefully.
won't you drop us a card now for our booklet "rooping ECONOMY" telling all about "GALT" Shingles?
If you haven't paper and ink handy, tear out this advertisement, write your mame
and If you haven't paper aud ink handy
on the line at bottond and mailt is
have a better chance than right now.
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the galt art metal co., Limited, - GALT, ont.

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when employed judiciously in conjunction with the required amounts of Phosphatic and Nitrogenous firtly.
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 wound, by dressing three times daily with
a four-or fivepercent. solution of car-
bolic. acid, and allow her to stand, as bolic. acid, and allow her to stand, as
action has a tendency to pump or draw air into a wound in this regi

## Miscellaneous.

NITRO-CULTURE.
$\qquad$ if you would tell me, through the columns
if yen and could get seme nitro-culture with which to inoculate the seed.
Quebec.
Ans.-Probably either the Bacteriological Departinent, Ontario Agricultural College
Guelph, or the N. S. Agricultural ColGuelph, or the N. S. Agricultural Co
lege, Truro, N. S., would supply you Write and see. CECROPIA.
$\qquad$ coon enclosing a pupa in handsome black
vest, is that of the Cecropia- Sania,
cecropia-the "giant American silkworm","

 plants have been listed-but birds, and its natural insect enemies, prevent it fro
becoming very destructive. The moth becoming very destructive. The moth
the handsomest insect in our latitude.
$\qquad$
$\qquad$ of the noted thy lestale stallion, Mac-
queen $[462]$ (5200), completes the most
qemarkable curour ry remarkable career recorded of any draft
horse in the history of Canada. A bay
horese with white on face and hind legs horse, with white on face and hind legs,
foaled in May, 1885, bred by Peter Kerr,
Col Castle Douglas, Scotland, imported in
188t, hy Grahain I3ros., Cliaremont, Ont,
sire Macgragor (1487), by Darnley (222), dam by Lothian Tam, Macqueen has made
a matchless record as a prizewinner and vire of winners in Auerica, retaining his
$\qquad$


TRADE TOPIC
$\qquad$

HOW MEN ENDURE The Oat-Fed Man Can Outwork The Oat-Fed Man Rest. A concern which employs 2,000 wootcut ters made scientific tests of food. The resuly durance food. Those workers now al
start the day on a diet of oats alone. start the day on a diet of oats alone.
No other grain supplies the energy oats. You know the effect on horses.
It is just the same on man. Any mall can increase his endurance, his That is why oatmeal is so immensely ith
portant. In this food, above all foods, on portant. In this food, above all foods,
should insist on the utmost. It is ns should insist on the utmost. It
wise thing to serve common oatmeal wise thing to serve grains used in Quah,
The rich, plump gre
Oats, are selected by 62 siftings. Only to Oats, are selected by 62 sifligs. a bushel
pounds can be obtained from a
Kut But those choice grains he value as food.
flavor, and the maximum Quaker Oats is the cream of the onts,
mede delicious. Yet, despite its quality,
the cost to you is but one-half cent per dish

|  |  |
| :---: | :---: |

CLIP YOUR HORSES IN T.HE SPRING
Clipped horses have the best of it in even way. They not only look better, but the
are fresh and full of life and vigor. Their feed does them more good, they rest better and do better work. They are not subjec
to coughs, colds, pneumonia, etc., which rocoughs, colds, pneumonia, elc., , , mine many good horses. Clip before you put the horses at the spring work. You
can clip a horse in 30 minutes with this
Stewart Ball Bearing Clipping Machine Masmain Anyone can operate it
and do
and
good aveque 5ivis 9.75 Beware of porly
made imitations of this
machine machine.
Chlcago flexible Shaft
110 lasalle Ave.
chicago


APRIL 13, 1911
QUESTIONS AND ANSWERS Miscellaneous.

WOOD-BORING INSECT E. B.-There are many species of beetles
whose larvec bore in dry timber and thereby do much damage to it. The specimen
of wood sent is certainly badly riddled. of wood sent is certainly badly riddled,
although we do not find any of the although larve in it. Is it practicable
offending to saturate the oil, either refined as used in lamps, of oicude ? If you can apply the oil, w
crut ESTIMATING CORDWOOD IN LOG Could you kindly advise me how to measure cordwood in the log. I am
aware that 128 cubic feet make one corr, but if a overs, from the squared log. I I
or the over engths with a sawing-machine
 Ans.-So far as we are aware, there is
o rule for measuring cordwo a genernit
log. As a og. As a general thing, when wood is
split, it piles out more, it makes a bigger
ile than it would if piled wist pile than it would it piled without being
split. The air spaces in the a percentage of the whole space oc-
upied. theory which some use to
A torde estine cordwood before the logs are
split, is to count the diameter of a log as if were one side of a square. For
instance, a log is one foot in diameter Whis $\log$ might be expected, when split, to
pile out to fill a space one foot square miry-two such logs would, in that case,
make a cord. Or, a log two feet in diameter would fill, when split, a space
of two feet square, equal to four square
fent. Fight of such CLOVER SEEDING FOR PLOW ING UNDER-FERTILIZER FOR SUGAR BEETS.

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possible needs when you write lill be glad to quote prices.

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 Young Calves develop and grow surprisingly well when fed "Cream Equivalent" either with or without separated milk. It is not a drug or "FAKE mean Has by one of the most honorable Wenthe largest sale of any Caif Meal in the in the highest adian Government roport shows in A BAG 50 lbs, \$2.25. percentage of nutritivelther Hot or Cold quaterCan be fed with either Hot or Cold wall DEALERS EVERYWHERE SELL
BIBBY'S CREAM EQUIVALENT WM. RENNIE CO. limited TORONTO

wearing parts than any other
m separator. Costs the least for "Bverything that's good in Cream Separators" Smpire Cream Separator Company of Canada, Lted winnipeg
toronto
When Writing Please Mention The Advocata.

676
Covered With Eczema cured by two bottles d. d. d. On March 21st, 1910, Mr. Angus Mc
Millan, of Port Hood, N. S., wrote us: "My litte boy, three years old, was
covered I tried over twenty diferent kinds of
salves and washes, but could not see any salves and washes, but could not see any
improvement-in tact, it seemed to be get
ting worse
I was about discouraged, and had lost
faith in all kinds of so-called ecreman faith in all kinds of so-called eczema
cures. when $T$ saw an ad. telling about
 bottle, and the third application con-
vinced me that I had at last got a sure vinced me that $I$ had at last got a sure
cure.
Two bottles effected a $a$ complete
cure."
what D. D. D. did for this little boy it will do for any skin sufferer. $A$ mild
sonthing liquid, made up of oil of Wintersoothing liquid, made up of oil or winter-
green, Thymol, Clycerine, and other in-
 out.
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A, 49 Colborne street, Toronto, and they II

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 colsed him completey", Wi.t. Youns. P. D. Fs $\frac{\text { Limited. Montreal. Canadian A A ents. }}{\text { MRSSRS, HICKMAN \& SCRUBY }}$ Court Lodere, Berton, Rent, Eng. Prom on on we shall es bhiping large numbera


 condiden ofthe realt weo dhall oug aly your bisines Percheron, Beiglan, Shire and Hackney Stallions and Mares oAs; ine yot as ther is is in America; ; to 4 y years

 Clydesdales

 dimance phone. R \& Pinkerton, tssex, ont

Tho glory of our life below
Comes hot troum what we do or what we Comes not fron
know.

## had heart trouble

 merves were all unstrumc.Wherever there is any weaknew of the heart or nerves, flagging eneregy or phy,
gical breakdown, the use of Milburn't sical breakdown, the use of Milurna
Heart and Nerve Pills will soon produce healthy, strong gystem.
Miss
Hessie
Kinsey.
 pleasure I write you stating the benenit pleasure received by using your Miliburn', teart and Nerve Pills. This spring any work. 11 went to a doctor and he told me I had heart trouble and that my
nervees were all unstrung. I took hit nerves were all unstrung.
medicine, as he ordered me to do, but i medicine, as heordered me working in a printing officice at the time, and my doctor said it was ent thpe seting My father advised me te ouy a box o your pills as he had derived so muct
lenefit from them. Before I had fifishbou enefit from them a before dive hivishor ould work from morning to niight with
out any smothering feeling or hot fushes out any smothering feling or hot furshes
1 can recommend them highty to Hervous and run down people."


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## Clydesdales and Hackneys

## FOR SALE

We have more prizewinning Clydesdale fillies for sale han any other firm. We have them any age or colo you want. Also Hackney and Clydesdale stallions.

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Simcoe Lodge, Beaverton, Ont
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## glengore aberdeen-angus.

 The splendid Clengore herd of over 40head of Aberdeen-A ngus cattle, the prop erty of Geo. Davis \& Son, of Alton, Ont.,
a station on the Streetsvilleo-wen Sound
arnat branch of the C. P. R., are coming
through the winter in good flesh. The larity in Canada, their sterling qualities as beef producers, coupled with their ex-
treme hardiness, makes them the ideai
beef cattle for most decided increase in the demand for shows that their superior qualities are benow in a position to supply females of
all ages, bred on the most popular lines and Fair Lady tribes, the young things being the get of their massive, heavy-
fleshed bull, Cochrane of Tweedhill 1905 , the herd. An exceptionally choice young
son of his that will make them all go a Queen Esther of Glengore, a Mayflower.
This cow, last fall, at Erin Show, which is the biggest Aberdeen-Angus show in
Ontario, in a class of eleven, was placed frst. She is a right nice, smooth type,
and this young son of hers does her yent, as well as his sire. Another
young bull for sale is a yearling, sired by Elm Park Ringleader 7th, dam May-
flower of Tweedhill, by King Kyma. This young bull is exceptionally well-bred, and
should do a power of good to some Glengore, Another is Fair months old, by by the stock
null, and out of Fair Lady Sth , Ogether with females of all ages, are for
sale, at very reasonable prices. Among
secent sales are one bull following: N. H. Hope, of Tilbury, Ont.;
 It these wero mail-order sales, and every
nan wrote that he was well satisfied and than wrote that he was well satisfied, and
the animals were honestly represented.

TRADE TOPIC.
$\qquad$
$\qquad$
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CLYDESDALES-Imported and Canadian-bred
 FEW Rive faverabererms. ROBT. NESS \& SON, HOWICK, QUE

T. D. ELLIOTT, BOLTON, ONT. -

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 For Horses, Cattle, Sheep and Hogs Contains from 80 to 84 per cent. pure cane molasses(not a particle of sugar-beet by-product enters into its (not apartion). A digestive feeding meal, convenient
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gaod condition, of big size and quality. Lome andon, Ont. 7 Imported Clydesdale Stallions $7 \begin{gathered}2,3,4 \text { and } 5 \text { years of agice } \\ \text { We }\end{gathered}$ impoction, with type quality, breeding and character unexcelled. Our prices are ont. and our terms are made to
suit.
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Sire Prince Cairnbrosle (lmp.) 4785 Dam Gracle Anderson (imp.) 9389 Four years old. Absolutelv sound and quiet, and
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Don't buy undersized stallions and Don't buy undersized stallions and
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Thursday, April 27, 1911
She without reserve,
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## MSUREMORSES YOUR HOUS



A small premium will secure a' policyéin our Company, by which you willy insured
fult from the death of your mare or its foal or both. Policies issued covering all
risks on animals, also transit insurance at all times, in all cases. Prospectu

General Animals Insurance Co of Canada,
Dept. D, Quebec Bank Buldilng Montrea
No. 106 York Street, Ottawa
"Save.The Horse"SpavinCure.






 $\$ 5.00$ a Bottle With Signed contract.

 Troy Ghemical Co., 148 Van Horn St.
Toronto, Ont., and' Blinghamton, N. $Y$. Collector of postage stamps, possessing
12,544 specimens, desires to contract a marriage with a young lady, also a col-
lector, who has the blue Mauritius of 1847. No other
ment in the Figar

## SUFFERED SINCE HER CHILDHOOD

But Dodd's Kidney Pills made Mrs. Laprairie a new Woman.
Niplssing Lady gives an experience that should prove of immense
value to the suffering women of Canada.
$\qquad$ April 10.-(Special.)-Atter suffering from
arious forms of kidney ills since she was voman, and once more it has been proved evere or of too Kong standing for Dodd's Kidney Pills to cure.
Interviewed "Since have suffered from Kidney Disease.
was always tired was always tired. My back would ache
and I always had a sharp pain in and
top part of my head. My heart also troubled me.
:Hearing of Dodd's Kidney Pills, I gave them a trial, and now I feel like a new Thousands of Canadian men and women are feeling just as Mrs. Laprairie does-
as if life had started all as if life had started all over for themjast because they have cured their kidneys
with Dodd's Kidney Pills. For the kidneys are the mainspring of life. If they
are clogged or out of order



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 Ansus Bulls for Sale pamen At
 Shorthorns, Cotswolds, Berkshires.
 ow breding ewes. No Berkshires to Iffer at present.
CHAs. E. BONYCASTE,
station and P. O., Campbeliford, Ont. Maple Grange Shorthorns


 ning type. Several you
thick, even and mellow. JOHN GARDHOUSE \& SONS

 OAKIAINEARM Clydesdales, Shorthorns and Cotswolds


4Shorthorin Bulls OR SALE. 3 red and one roan; age
from 12 to 16 months sired by mp. Lord
s. What
 Oakland Shorthorns for Sale

QUESTIONS ANO ARSWEFS Miscellaneous.
onveyancing partnership with him, aluc to tratisfor the whole managenent of farm to the son
the business to be conducted in father's the business to be conducted in father's
name, and the son to have authority to use the father's name in doing business; and, also, he wants to transter farm to
the son at his decease, subject to certain the son at his decease, subject to cartain
bequests to other members of the faunily. bequests to other members of the faunily.
To make a contract for the above legal, To make a contract for the above legal,
would it be necessary to have the papers drawn up by a conveyancer, or would it be perfectly legal for one of the parties to draw up the papers, providing same
were duly signed, sealed and witnessed. were duty
Ontario.
Ans.-To have the papers prepared as proposed would not be illegal; but it is experienced and skillful solicitor.

THUMPS.
Have a bunch of pigs six weeks old. At two weeks old, one (the fattest of bunch) got wheezy. I forced the sow and rations. Pig got better for a week, then got wheezy again, but soon got better.
Ever since it has not thrived, and a few days ago staggered, and now has lost the use of hind legs.
Ans.-Wheezing in young pigs is due to
too liberal feeding of grain, or of their mother's milk, without sumfient exercise.
The trouble is technically known as The troub The heart and lungs become
thumps. clogged with fat, and the blood fails to circulate freely. The only hope for pigs
thus affected, is to provide exercise in the thus affected, is to provide exercise in the
sunshine, if possible, and feed laxative lood, as bran and oats. The digestive
organs of your pig seem to have been altogether thrown out of gear by having HEIFER FAILING TO CONCEIVE I have a fine registered Jersey heifer,
twenty months old, that has been served twenty months old, that has been served
three times, on the following dates: February 4th, March 12 th, and April 2nd. She gets no grain, except what is in the
silage she gets once a day, but is in quite high condition. If she comes in hea
again, what can I do to make conception again, what can 1 do to make conceptir
surer ?
SUBSCRIBER? Ans.-The most common removabl
cause of cows or heifers failing to con ceive, is closure of the opening through
the neck of the womb. When the cow examined. The operator oils his han and arm, inserts hand through tulva an
vagina until the fingers meet the neck o
the womb. If it be closed, he dilates it with a finger, or, if necessary, uses
pointed piece of perfectly - smooth hard
wood, about $\frac{y}{2}$-inch in diameter. In som wood, about $\frac{1}{2}$-inch in diameter. In son
cases, considerable force is required to accomplish the end. Breed the cow
about an hour after the operation.

GOSSIP.
W. G. Pettit \& Sons, Freeman, Ont.,
send the following notes. with a change
C advertisement: "The past few months I advertisement: "The past few monthy
with us have been very encouraging to
eo business of breeding shorthorns. The he business of breeding surn thath good, and ar contribution to the Toronto sale
nquirics have been from a very wide sec
$\qquad$
$\qquad$
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$\qquad$
$\qquad$
Almon Boswall, of rownal, P.E.I. T
thly we exhilithed, winning first at T
tonto last fall, has also been sold to ronto last fall, has also been sold to
ris. Brect, Live inctock Commissioner
Saskatchewan.

## Poultry Fencing that is

Stronger than Seems Necessary We make our poultry fencing close enough to turn small fowthen we make it extra strong, so it will last for years and keep the cattle out. The heavy, hard steel top and bottom wires hold it taut and prevent it from sagging.
PEERLESS Poultry FENCE
t is well galvanized so as to protect it from rust. It makes such a firm, upstanding fence that it requires less than half the posts needed for the ordinary poultry fence, and that means a big saving to you. Write for particulars. We make farm and ornamental fences and gates of exceptional quality. Acents wanteci wbere not now representer.
The Eanwell Hoxie Wire Fence Co., Ltd.
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For Walls and Ceilings The frrst step in making a home beautiful is to coat the walls with Muresco. ground for pictures and furniture. Dingy walls and ceilings make it impossible to beautify any room.
Muresco is a powder. It comes in fivesound packages-any trixed with boiling water. It is easy to use and economical. Ask your dealer for Muresco. Our descriptive literature about Muresco will

Twentyffivi. Million Pounds of Mureaco
Were Sold in the S . Last Year. Moore's Paints $\begin{gathered}\text { We are also the makers } \\ \text { Moore's } \\ \text { Housce }\end{gathered}$ of paints that have no equal ordar an $\begin{array}{ll}\text { Brooklynn, N. Y. } \\ \text { Cleveland. } & \text { Chicago, mi. }\end{array} \quad \begin{aligned} & \text { Carteret, N. J. } \\ & \text { Toronto, Cati. }\end{aligned}$


THE DOMINION LINSEED OIL CO., LIMITEI), BADEN, ONT. Elm Park Aberdeen-Angus $\begin{aligned} & \text { The young bulls, we have for sale are sired by } \\ & \text { nificent ITp. Mag }\end{aligned}$ Benton. Imp., 828, champion Toronto and Winnipee, i903, Lord Val. 2nd 868, champion Calgary, Hali

WILLOWDALE STOCK FARM HAS NOW FOR SALE Clydesdales, Shorthorns, Chester Swine, Shropshire Sheep Some extra good young bulls, descendants of Joy of Morning and Broad Scotch.
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Scotch Shorthorn Females for Sale 1 amm offering, at very rea-



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from to to 13 months old ; also rom 10 to 13 months old ; als
number of choice heifers For particulars write : In Scotch Shorthorn Bulls |0 The Princess Royal, Secret, Bessie, village Meic
 JOHN MHITR BROUGHAM ONT , Woodholme Shorthorns seo sto the richeot modern in typo and quality, For alle: Ono and
two-raarold heifers,
several young buls, thich -lown and metcor. $\xrightarrow{\text { G. M. Forsith, Claremont, ont. }}$ MAPLE LODGE STOCK FARM wo strictly first-class young Shorthorn A. w. smirt, $\begin{aligned} & \text { see them, or write. } \\ & \text { Maple Lodge, ont. }\end{aligned}$ HIGII CLASS SHUKIHORNS


 SPRING VALLEY SHORTHORN Canadiantred and imported EFe manese all enes Phice sief
Phone counnection. Kyle Bros., Ayr, Ont. FLETCHFR'S SHORTHORN



## Shorthorns


Scotch Shorthorns


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous

CREAM DOES NOT RISE - OII CAKE FOR COWS - QUARTS

OF MILK TO CREAMI
What is the cause of cream not rising on the milk when it tests 3.80 (cows
peing fresh)? 2. Would you consider 3.80 a very good test for a grade Holstin heiter, coming
three years old, calving for the first time on February 28th, and her millk being ested on March 13th
3. Is oil cake good to make pigs thrive,
and will it make cows give more and
and $\underset{\substack{\text { and will } \\ \text { richer milk }}}{\text { it }}$
 separator cream, from a herd of cows
teesting trom 3 per cent. to 4 per cent.? 5. To decide an argument, A says that
the cow's milk looks terribly blue anter the cream is taken off B says that it thould be naturally so it the cream is all
taken off. Which is right, A or B ; and
Whe it A is right, what is the cause ? A. S .
Ans. -1 . Sometimes this is due to the Ans. -1 . Sometimes this is due to the
smail size of the mikl-ata globulus, or a
viscous (sticky) condition of the milk, or
 tat globules, are best for gravity, or sest
ting methods of creaming milk no way of increasing the size of the fat thit
 milk ought to be creamed (skimmed) by
the use of a centrifuge or cream sepa-
theosity rator. Ln the case of abnormal viscosity
in fresh cows' milk, this can bo reduce to some extent by feeding more succulunt toods, such as corn sliage and roots
Tinter. This trouble is seldom met with
in summer when cows are on grass. Some in summer when cows are
advise the oddition of water to such milk
when set in cans or pans for the cream when set in cans or pars is of doubtrul
to rise, but this practice in
Beatter use cream separator.

 milk For a grade Holstein heifer, thi
would be considered a good test, if represents her average, and if she is giv
ing 40 lbs.. or over, of milk daily, this is equal to 1.5 lbs. fat daily, which
will make about 18 libs. butter. 3. Oil cake is an excellent teed for cows
giving mik, although it is not likely to make the milk "richer." The richness,
percentage of fat in the milk, is largel governed by the cow. Only in excentiona cases can it be said that teed influencos
the percentage of fat in the milik, and then in a way directly opposite to what
farmers generally consider to be the case If a cow be in high flesh at the erme
treshening, and the usual feed, or a part
and of it, be withheld, the tendeney is for the
cow to absorb or anssimiate body tat, in
the torm or milk-fat oll cows, and is probably true only for a limited period of time.
4. Assuming
that
30-per-cent. cream weighs 2.5 lis. to the quart; that milk
 eeplected, and that the milk tests ant
veraze of 3.5 per cont. fat, the answer 5. As stated in the "argument," there the cor's milk tooks terribly bue,." and
$\qquad$
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$\qquad$ anf lipht. It is "rtue" because


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form except the nitrate. Give it to them that way. If you don't you'll have to wait for a change in form to take place betore the plants can feed on it. Artme nitro

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 heifirs in call: among these are some good ones for
foradtion purposes.
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|  | H. CARGILL, de SON have to offer at the present moment an exceptionally good lot of young, superior stock sires, viz.: Quality, Size, Conformation and Breeding. If John Clancy, Manager, Cargili, Ontarie. |
| :---: | :---: |









Springhurst Shorthorns and Clydesdales




## ANFES MESSAE

cured Her Husband of Drinking.
Writo Mer Today and She WIII Aladly Tell You How She Dld It. Mot oree 9 g yars her husband was a hard



 To oure exis disaease and


 Eena her and monesf Simply write your name
$\qquad$ Ploaso tell me a bout the remedy you used yure your husaand. asisks
m

WE NEED THE MILK For our milk contract, so all the bull calves from
 MONRO \& LAWLESS Elmdale Farms, Thorold, Ontarle THEMAPLES HOLSTEIN HERD Everything of milking age in the Record-ot-Merit.
Nothing for sale pate presen but a chooce ortot ouvil
Ives sired by King Posch De Kol. Write for allues sired by King Posch De Kol. Write for
prices, description and pedigree. Wathurn Rivers, Folden's, Ontarie Elmwood Holsteins offer choice young


HOMEWOOD HOLSTEINS

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 C. R. Gies, Heidelburs, Ontario Holstein Cattle $\mathbf{e}_{\text {breed. }}^{- \text {The most proftable dairy }}$


DONTT $\begin{aligned} & \text { Buy a HOLSTEIN BULL till } \\ & \text { you get my prices on choice } \\ & \text { goods from eleven months }\end{aligned}$

(1) $\begin{aligned} & \text { Harrietsville. Ont. } \\ & \text { Holsteln- At Ridgedale Farm for Sale: A few } \\ & \text { Frieslans choice bull calves from large-produc }\end{aligned}$
 Evergreen Stock Farm offers bulls 2 to 12

 | Holstein Calves | Cho ce heifer and bull calves |
| :--- | :--- |
| Berkshire |  |
| Pigs | from heay mikiking high- |
| tosting days. |  |
| Onlv |  |

 Rodney. On
GLENWOOD STOCK FARM
Have two vear
Holsteins and Yorkshires
 Springtant
HOLSIE!


THE FARMER's ADVOCATE

QUESTIONS AND ANSWERS

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Maving a comparatively low percentage of
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oontaining a rulatively high percentage of
say that milk tends to lo loak, we may
blueness will depend upon how cogmpletely
the fat is removed by creaming, and upon
he nature and
solids remaining in the skim milk other

CREAMI-TESTING
st, by Babcock test, when it takes 41 lbs . cream to mak Ans.-It will depend upon the overrun which is a varying quantity. Assuming
an average overrun of one-sixth, the cream FEED FOR SOW AND YOUNG PIGS.
What feed would you advise to male pigs thrive, and also what is good to pigs, to make her furnish plenty of milk for them? A SUBSCRIBER. Ans.-For young pigs, there is nothing
better than shorts scalded and skim milk poured over, and all stirred well, and fed
while warm. To induce milk production in a brood sow, she must be fed liberully
A very good ration is made by mixing bran and one part wheat middlings, an allowing the food to soak between meals
A few roots are beneficial, and sweet skim milk is very good.

STUNTED PIGS.
I saw an advertisement for Duroc-Jersey advertiser for prices for a brood sow He told me he had no sows, but he had
some nice three-months-old pigs that would sell for $\$ 12$ apiece, cash with order. I sent for the pigs, and they only
weighed 82 lbs ., or about 41 lbs .apiece I wanted those pigs for breeding purpose he has misrepresented those pigs to me. wrote him to send my money back
soon as I got them. He has not an vered my letter yet. What
take to recover damages.
Ans.-We think you should have refuse o accept the pigs, or at least have ten
dered them back promptly after having eceived and weighed them. It may be
owever, that you are entitled to damproper course in proceeding for same Nould be to write the party first, makin are entitled to, and then, in the event
his failing to settle with you, sue him UNNATURAL MOTHER I have a grade Yorkshire sow, one year
old, due to farrow on May 19th, whic made every appearance of being on tim
and was occasionally looked after hree days and nights. Saw no sign
er having, or having had, any pigs. he was very quiet; always ready to co
the feed trough, but on the 25 th fou to the ercal
she was drying, and has since quite drie
up eat them as fast as dropped, or wha
Did not see any signs of her having ha ny pigs. I never heard of such a thin ows were cracked buckwhent and boile casionally-a mixed ration. Ans- - rom a number of causes, not a of them the fault of the sow, but som
ot wery will understood, a sow win
wis
 (b) Stockwood Ayrshires


SHE HAD COISUUMPTION.

## Dr. Wood's Norway Pine Syrup Cured Her.

Welghed 135 PoundsMow Weighs 172.

Mra. Charles McDermoth, Bathurst, N.B., writes:-"I thought I would write and let you know the benefit I have reocived through the use of Dr. Wood's Norway Pine Syrup. Three years ago I had consumption. I had three doctors attending me and they were very much alarmed about my con could not do my Toak cad . Whit looling through mour bousework. While looking through your Norway Pine Syrup was good for weak lungs, se I got a bottle at the drug store, and after tating ton bottles I was com135 poundas and now weigh 172 , a gain of 83 pounds in three years. In now keep it in the hoves all the time and would not
be without it for anything, as I owe my be without
Dr. Wood's Norway Pine Syrup contains the lung healing virtues of the Norway pine tree, which, combined with
other absorbent, expectorant and soothing other abeorbent, expectorant a soubt the meaticinemedy for coughs, colds, bronchitis and all throat and lung troublea.
Priee 25 cents at all dealers. Beware of imitatione. the genuine is manufac Tured onto. Ont

## wool <br> Let us know about how much you that we may keep you posted on prices. You might as well sell to us, and make the most profit possible, instead of selling locally. Please Send Us Now your name touch with you. <br> E. T. GARTER \& CO. TORONTO, <br> SOUTHDOWNSHEEP

## Thichester Sussex. England.

 uusust I6th and lith next, abo 0,000 REGISTERED SOUTHDOWN EWE1,000 SOUTHDOWN RAM AND RAM LAMB Stride \&. Son, Chichester. Sussex, England

Alloway Lodge Southdowns


 BOBT. McEWEN, BYRON, ONT

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous.

ROLLED OATS FOR COWS. Are rolled oats a good feed for newilk cows? If not, what kind of grain of milk ?
Ans.- Rolled oats are certainly good for
cows, being in themselves cows, being in themselves well-nigh a
balanced ration. Of course, this does not mean that they will necessarily make a balanced ration when fed with corn silage
or timothy hay. In this case, a little oil cake, cotton-seed meal, gluten meal or wheat bran should be added, to secure the best results.
What is the limit of "less or more" on or a fraction of an acre
Ontario.
Ans.-The
Ans.-There is no arbitrary rule. Each case is governed by its own circumstances. In the particular case, the
words in question (which are usually rendered "more or less") might cover even more than two acres of difference, or it might easily be that a difference of even
a small fraction of an acre would be small fraction of an acre wourd be
judicially held to be too great to be adequately provided for by the phrase adequately
mentioned.

SCRATCHES.
We have a valuable mare in foal, and her hind legs are sore from hocks to nexts
joint. Some call it scratches, and others call it cracked heels. I don't know Which you call it, or whether there is
any difference. They have been sore for about a year. I have put on some ap plications, but they seem to do not good.
She is never lame. What do you advise? Ans.-Scratches and cracked heels are Ans.-Scratches a for the same trouble.
but different names fimb is affected to
When the limeater When the limb is affected to a greater or",
less height, it is called "mud fever." less height, it is called adgavated by washing with soap and water.
not wash. If the legs get wet, rub them
dry. As the mare tives should be avoided. Give $1 \nmid$ ounces
Forler's Solution of Arsenic twice daill for a week. For local application, you
may choose between a lotion and an ointment, Sometimes they are used alternately. In warm, dusty weather, a
lotion is best, but if weather is cold, at ointment tends to soften the skin which
might be hardened and made to crack open arain if lotion were applied. good lotion is made lad aunce actate of lead 1 ounce, carbolic
acid $\frac{1}{2}$ ounce, and a pint of water. Probabty the best ointment is the oxide-of-
zinc ointment, to which is added 20 drops carbolic acid to the ounce. Use either
freely, three or four times a day.

WILD CHICORY-RAPE FOR

1. I have a ten-acre field which is in fested in some parts with what is called
by some, chicory, and others, blue weed
find it pretty hard to I some, chicory, and others, blue weed
I find it pretty hard to get rid of, and
would ask your opinion on the following mothod, which I intend trying. Land i
fainly stiff clay all through, with black
soill mixed in; what one would call good an mill Was plowed last fall prett mixture of peas, oats and vetches, an
cunime them green for fonder, plowing th
land tilut away after haresting, and Whoringenin up to got a fine tilth, an Would rim..., have any undesirat,

DON'T DEPEND ON WOODEN WHITI AND ORDINARY WAGONS

 loade in hart the time usualy
greater by tar, and the whels
and without the least resistance.
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 Wheels and Handy Farm Wagons Theey are made with stagered spokes,
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TUDHOPE-KNOX COMPANY, LImited,
Orillia, Ontario.

## $5(0) \longrightarrow$ TRADE mark SHEEP DIP <br> KILLS LICE, TICKS and FLEAS "SOL-O-KRE wil stamp out CONTAGIOUS ABORTION. <br>  ROCHISTER GERMICIDI CO'Y <br> 11 Jarvis Street <br> Toronto, Canada.

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Maple Leaf Berkshires For sale: Young sows bred and ready
to breed; boars fit for service; also

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 bred, and younger ones. A number of young boas
coming on. JOHN S. COWAN, Donegal, On PLEASE MENTION THE ADVOCATE. Is.
Dine Grove Yorkshires

$\qquad$

Pine Grove Yorkstires orders for young pigs, not akin, for spring delvery. Deacendants of imported stock.
Property
Ooseph Featherston \&. Son, Streetsville, Ont DUROC - JERSEY SWINE,LARGE WHITE YORKSHIRES
 Mac Camplell \& Sons, Northwood, Ont.
 the hogs that won both championahips at Toronto
and London tor two years. til have few choice
and
oow ready for service. Can turnish parrs or more


APFili 13, 191
GOSSIP
 isgee ree Lincoln red Shorthorn buils, at
pedigree Lind peaincoln, will be held.
Lital
T. H. Hassard, Markham, Ont., has re
ceived an importation of twenty ceived an importation of twenty ponies,
which will be sold by auction in Toronto which will
Aprth.
 Erin Station, C. P. R. The enviable
reputation of this herd is theirs by merit, their breeding is the best tho breed pro-
duces, Orange Blossoms, Cruickshank duces, Orange Blossoms, Cruickshank J.,
or Jealousy,
Nonpareils, Marr Ront or Jealousy, Nonpareils, Marr Roan
Ladys and Missies, C. Mysies, many of them the daughters of that great bull, Imp. Joy of Morning, and out of such
big. thick, well-bred cows as Imp. Blossom 2nd, an Orange Blossom; Imp. Lea Marr Roan Lady, Deestde Roan Lady. stock bull is the very, thick. The present on, sired by Scottish Far A. T. Goron the world-renowned Scottish Ducher, and the sire of the unbeaten
Gordon, dam Beatrice 22nd, C. Butterly, who is the dam of Bandmaster, winner of first at the royand, in
a class of 30 , and sold for 600 guine by the famous forerdeen winner
Lancelot, is a grandd
 Sottish winning lines, and carrying on and sires thest notable representatives
illused has known. His destrious breeding for generations is in-
delibly stamped on his get, whose type standarn, mellow flesh, are of so high a not one is left. Four yearling daughters
standing, side by side, are surely a nice lot. mmancusly thick, and quality from the feet
up; wne is an Orange Blossom.
 He This bull is now just one a med Roan
He four.
tive. in color, safe, sure, and acfort. Sor sale; a bonanza for some
best horthorn breeder. One of his
 N ic-bred de was, of Imp. Joy of out


> Our Out. Throw
Harrow is such a great tise it, and give you your chocice
between it and the famous "Bissell" between it and the famous "Bissell"
In Throw Harrow. Throw Harrows are usually heavy light draft-easiest on horses' neck of any Out-Throw Harrow. The and projection of seat in the rear of harrow take weight off horses ecks. each other, one gang is set lightly ahead of the other, which prevents crowding or bumping to

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straightforward way in which it comes out with vital information. Systems of rural telephone lines are spreading a network throughout the Dominion in the form of community-owned companies. Sooner or later someone will organize in your lou Why shouldn't you be the man to do it? In any event you owe it to yourself to know解 Better send the coupo
are thinking about it.
"Nowter Electyc



[^0]:    in Canada, says not, or why should he advise

[^1]:    Near Home at Last.

[^2]:    vicious sows
    
    
    
    
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