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LONDON, ONTAR1O, APRIL 18, 1912.
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Vol. XLVII.
utications branco
The Sherlock Manning 20th Century Piano is Canada's biggest píano value


STYLE 80 HAT'S no mere advertising claim, but a plain business statement, the truth of which we are prepared to prove. Pianos, you see, are just like high-strung colts-only worth so much to begin with. You know that as well as we do. The actual value of a piano, when ready to leave the manufacturer' shipping room, is solely determined by : 1st. The cost of rawo material. 2nd. The cost of production. 3rd. Overhead expenses and selling cost, plus a reasonable profit. Some iono manufacturers charge a hundred dollars over and piano all that for their names-names may be worth , Here are the reasons wohy we consider


STYLE 75

## Sherlock Manning 20th Century Piano

he greatest piano value in all Canada. Consider these reasons, not as, they interest us, but as they interest you. Just now you
 But consider the reasons why we believe you can save $\$$ roo by buying a he extra special Easter discount, best wherlock-Manning Piano at any time.

Sherlock-mann

Our factory is big and modern, thoroughly equipped with abor-saving machinery-a 2oth Century plant in every respectar Te employ skilled artisans only, each an expert in at the lowest department. We are in a position to buy fumberly kiln-dried on ngure for cash, and

The quality features of the Sherlock-Manning zoth entury Piano include the famous Otto Higel piano action ; the best imported Poehlmann wire; an extra strong full iron plate. All combined with exper waction to a minimum.

The selling cost of most first class pianos is enormous, because
of antiquated methods. We sell direct to our agents, or to you. Having no big road-force of travelling men to maintain at high tavaries and higher expenses we are able to sell the SherlockManning at a price that staggers competition. So, when you buy a Sherlock-Nanning zoth Centry Mo she soo, and at the same tinc yol olled in oriluancy of mon that you huze a piano hat's built to endure.

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pose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once, we'll be glad to

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 roof.

A Roof for Any Man See What a Good Roof Can Do!
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low-cost roof that any man or his tinsmith could lay right. This roof of mine saves the stuff stored under it.
It saves the barn framing and beams. It saves the barn framing and beams.
It saves the foundation. This roof
of mine doesn't need special toof of mine doesn't, need special toof

Good for 100 Years
The iif point about my yof is that trannot develop peasteoteryis real toor from the first year it is on your
oarn to the last year. And do yout
and will will use that barn, and your grandson
is worth going after a good long way

Stands the Arctics
 pedition usedi it for the Arcriticregions
Hiere is immense cold
and sweoning Here is is immense cold and sweeping
wind sand ice and poor foundations to

 Goverment has found no beter fool
for them, My roof is g good toof too


## Stands the Tropics

 "But that is not all. My roof is temperature of 135 degrees at Porus, Jamaica. My roofJamaica during rainy
stands it. In
season at Mon tego Bay, rain falls 10 inches in a single day. My roof stands it. In Ontario rain falls 30 inches in a whole year
My roof in Jamaica stands in 24 hours My roof in Jamaica stands in 24 hours
the rainfall it has easily 4 months for in Ontario. Is that a good roof? Is roof that stands the severe con
ditions in both Arctics and Tropic ditions in both Arctics and Tropic
good enough for you? You get exact ly the same article, made on the same
machines." Used All Over the World "Not only that, go down to South
Africa. Go to the farms there. Go around Port Elizabeth, or Durban, or up in the Transvaal. You'll see my
roof there. People will go around the oof there. People will gecause it is the best roof in the world. It will last 100
years. People use my roof in Japan years. People use my roof in Japan
-an earthquake country. They get it from me. They have searched the it from me. Ther a roof that would stand
world for
earthate straining. My roof will."
> "I am the best friend the farmer has, because I have given him one of the best roofs in the world at a very low cost. I want to send out more of my free to you, if you will ask
built. I send a book for it. Write me to-day." heat, that stands heat, that stands rains, that stands ice, that stands earth quakes. In fifty years, I have made Pedlar roof better and better by little points added every year. It has world sales to-day, just because it is the best roof in the world at its very moderate price.'

HY LATEST TRIUMPH "Then, a few years ago, I put my finishing touch that made my roof wonderful. I had been troubled, not by my roof design, but by the metal in it. It seemed impossible to get a metal which would not rust. I had to take the best metal 1 could get. The design was ald better for fifty years. At last I struck a clew in Europe."

You know they have cathedral here that are hundreds of years old Yet the iron hinges on the doors are a good as ever out hundreds of years ago 1 said to myself, 'Why not make up my roof in this peculiar kind of iron
so my roof will last like those doo so my roof will last like those doo
hinges?' Well, sir, that was a har job. It was hard to get that iron duplicated. I worked for a long time
and my chemists worked with me to

This Took 50 Years "You are be ginning to se something of the big work I have done. I have made a low-cost terrific cold and ract home to you that when you that
room me, you get a roof
from ood fetting a roof that makes your barn good for a hundred years. Andinary

That is why I say, 'I have helped the farmer more than ny man ever did, My roo will protect a good $\$ 100,000$ of produce in your barn in 100 years. A roof that will do that
get it. I stuck to it just as carefully as I had stuck to bettering my roof. Ind I got it at last. That's the metal

## You Get the Benefit

"My roof is the only roof in the world with this kind of non-rusting can come to and say, 'I want a hun-dred-year roof at about the price would pay for cedar shingle.' I am the only man
kind of goods.
"My roof will not rust to the leaking point within 100 years. It saves weather. It saves the barn from thaw water and lodged ice, because the seams carnot be gouged apart. Is
saves the barn from fire, because sparks cannot burn it. A burning stick on the roof will not harm it, or harm the barn under it. Lightning cannot burn a barn with my roof on it
My roof is a perfect conductor of elec tricity. My roof has 'give' in it to defy heat and frost, and protects in winter and summer. It protects even though the rafters sag. Wind canno
blow my roof off a barn. This is be blow my roof off a barn. This is be
cause it is a ventilated roof. It keeps your barn ventilated and stands the heaviest winds safely.'

## Get My Barn Book

 dig into more facts about the Pedia dig into more fill see how clean it is. Itroof. You will gives the best cistern water you can gather, as it is self-cleaning. This
book shows scores of good barn designs the best barns in Canada. Every one has my roof on it. You will get big help from my book, and
it free for a post-card, because you ca it iree for a post-card, because you can
plan your barn from it, whether you
use my 100-year roof or not." use my 100-year roof or not." 326 Oshawa



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One of the prizewinning creamery buttermakers at the last National Dairy Show recently wrote us
"We are sorry for the use of so many 'mail order' and other inferior separators in our territory. It seems to be almost impossibie to clean them, even though the farmers do try-and a good many of them don't even try. We wish you could do more missionary. out of the country. It is imposso tainted cream."

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these essential ingredients of
the soil must be replaced if the soil, must be replaced if
you want to make farming you want to make farming
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 tor illustrated price--ist. The Steel Trcugh \& Machine Co., Lid How GET BETTER LIGHT From COAL OIL (Kerosene)

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Vol. XLVII.
EDITORIAL.
If the state of the roads show the degree of civilization in a community, some of us must be not very remote from savagery.

Given health and a sound understanding, very living on the land, but he must not waste things
$\qquad$ datry cows, is something worth pondering. Con-
1 $\qquad$
$\qquad$
The Ontario Agricultural and Experimental Union is proposing to extend the scope of its exweed eradication, with the object of obtaining definite information as to best means of controlling the worst weeds in the Province upon difof cropping and rotation. This first year the at twitch grass, bladder campion and mustard. Par ticulars may be obtained on application to J. E
$\qquad$ means would strike most people as a joke ye that is precisely what may be done by drainage Land is chilled by the evaporation of surplus water disappears from a cubic foot of soil by
evaporation, it carries with it, says King, heat enough to leave the temperature of that soll
from 28.8 to 32.8 degrees F., depending upon whether the soil is sand or clay loam. The
writer spent a day with one of his men early in April, letting surplus water off the land by sho
elling ditches through the slushy soil, with hard frost-pan below as a convenient bottom
walk on while working. We estimate that in
$\qquad$ ably one of the most effective day's work that
will have been accomplished on the farm this
$\qquad$
(1) $\qquad$ is to hold the water up in numerous small dams on the tributary streams. By a grim coincidence, tion to the theory of conservation contained a
news-story telling that the Credit had destroyed fourteen dams and several bridges. Bearing in iangers the one below it we fear the cost of constructing these upper tributary dams, so as to quite a penny, to say nothing about compensation for inundated land. No doubt such dams would
the all right in some cases, but their principal advantage would consist in holding backwater for
$\qquad$
$\qquad$
$\qquad$
$\qquad$

What States Are Doing for the Roads.
$\qquad$ to create a road fund of $\$ 2,000,000$ by capitalizing the revenue so provided. Massachusetts is
deriving $\$ 400,000$ a year from automobile owners. The State has a Highway Commission, and there are fifteen bills relating to highways before the
Iegislature. One of the proposals for 1912 is a $\$ 5,000,000$ appropriation, to be expended in road
construction in five years. There are State highways and local improved roads connecting them. owners, Texas derives about $\$ 100,000$ revenue. In
recent years, millions of dollars have been voted large sums wasted through unscientific methods of
road work. This year's legislation contemplates State Highway Department, a Highway Com-
ission, and a State Highway Engineer to coberate with county authorities. A State road, Texas constitution prohibits levying direct road
taxes.
In vermont, the law creating a maintenance fund from automobile license and legislation fees,
is said to be responsible for the general improvement in State roads. These funds supplement ing the towns of a portion of the cost of main-
tenance. A new law in Minnesota provides for the ap-
nointment of State Highway Commissions and
the creation of a State Road and Bridge fund, made up in part by a levy of $\frac{1}{4}$ of a mill for each
dollar valuation on all taxable property. In ac-
cordance with the eternal fitness of things, comcordance with the eternal fitness of things, com-
mercial and auto clubs are actually constructing
roads in Nebraska, east and west across the State. The State is creating a Highway Com-
mission, and will put the general supervision of
the state's roads under the State Engineer. The the State's roads under the simpshire legislation makes a percentage of
New Hame fees available for road repairs.
automobile fees $\$ 1,000,000$ bond issue has helped the road situa-
tion. The state has provided money for the construction of three automobile trunk lines, but
it is admitted that what the State needs most is a system or cluster of roads leading between
the cities and the farms. New Jersey has not built any state roads, but extends help to local
bodies, and supervises their work, enforcing cer-
tain general plans and specifications, and influencing the location of roads. This is said to have
given the State the best system of roads, at low cost. New York has appropriated $\$ 5,000,000$ a
year for ten years, expended under Commission.
The trunk lines are built and maintained by the tate; other roads jointly, the State paying 50 (townships) 15 per cent. North Dakota people
will vote on a state Aid Law for roads, including automobile and motor-cycle taxes. lays down standards, and shares with local ing roads. Pennsylvania maintains a Highway cost of road-building and repair under prescribed conditions. The State Board of Public Roads in
thode island has been crippled for want of funds, but a bond issue and a $\$ 250,000$ appropriation
this year is expected to improve the situation.
the Farmer's Advocate AND HOME MAGAZINE.
THE LEADING AGRICULTURAL JOURNAI IN THE DOMINION
published weekly by
the wildiam weid company (limited)
ohn weldd, manager
Agents
 It is impartial and ithe
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| $\begin{array}{c}\text { For } \\ \text { per } \\ \text { noch } \\ \text { How to } \\ \text { How }\end{array}$ |

 not general
Improved
Contitution


Address-THE FARMER
THE WILLIAM WELD COMPANY (LIMITED),
the fact
the fact that their roads are poor. A new law
abolishes the office of Road Overseer and makes the townships responstble. Cnder a neir perma$\$ 955,000$ this year on hard-surface roads. Wiscons, with a fat appropriation to aid local munision, with a fat approprition, tolding. Wyoming has initiated work on two spectacular "routes" across the state for the special benetit of automobilists. Livery man from 21 years to 50 years and poll-tax purposes, and, upon petition of 10 per cent. of the eiectors, the coumt ommissioner may order a vote on a special liscal year, or term not exceeding three years. To a kreat ex-
tent, California has abandoned the scheme of oil ing the roads. In several states effective use has
been made of the split-log drag on carth roads. At the Agricultural College, Kansas, the ollice of
state Engineer was established, which furnishows state Engineer was estatished, hridge work, drainage, and irrigation propects. are classified and maintained atconding to their

Who Makes Living Dear
ments. Then, any attempt to reduce profits of epresent fair interest upon the intrinsic capita is met with howls and complaints about widow and orphans who will be deprived of returns up-
on the water they innocently bought from the promoters for cash. What are you going lo ane thing McArthur. Sure enough, what? One thing sure, we must get at the causes. We have sever al pretty clear deas hot really nwakened, reall plished when the security normed, aneers of finance is a somnolent public opinion. We hope Mr. McArthur's articles will (io something

The Importance of Promptitude.

## There a find and

 everything. Few people seem to realize that a duy or two, sometimes even a few hours, makesa great difference in the outcome of many projects. Spring is here again, with its thousand-and-one things to be done in a rush. Every ex-
perienced farmer knows how much the success of the crop depends upon the time the seed is consigned to the ground. "The early bird catches the worm," is an adage which applies to seeding operations with all possible force; and in the case of the injudicious sower who goes on his land before the warm spring sun and the gentle breezes hefore the tillage implements, is a pood example hefore the tilage implements, is a good example
of the reverse, viz., "the early worm gets caught." Seeding is one of the operations in connection with crop-growing which must be done at the proper time, if the best results are to follow. There are few farms on which all the fields or portions of the farm become ready for seeding at the same time. By a little system and man agement, and by using wide implements, it is
possible to get nearly all the seed incorporated in a good seenl-bed at a most opportune season. As soon as the land is reall to work, the see deferred means bushels less in the bins next fall. and the past season of feed shortage and high feeder and crain farmer the simnificance of short and full crops. A difterence of a bushel or two per acre seems a small consideration on a fey
acres, but as the acreage increases until it take in the millions utilized for the growing of cereat crops in our lominion, its real import is plainly seeding is mot the only spring operation which must be done promptly. spraying, the salvation
of the fruit-grower, and the guarantee of quality In the harvest, must be attended to just at th the nawthre has acwanced to the proper stage the growth of foliage or in the preparation for
fruiting. Buds do not always burst at the same date, neither do blossoms open or fall by th calendar. They depend upon the progress of the
season, and must he kept under a watchful eye ./ Shortly before the buds burst,." .. Just before the blossoms open." "Immediately after the blosare quotations which the experienced and widtenot mean a few days or weeks hefore or aiter the minute. Inder favoralle comblitions, whe
$\qquad$ linge. Such cases semo its illatrations of

## Tariff and Education

". We are up against a moral feature of lat wages and tastes of wage-earners remain as then are," concludes a thoughtiul article in the Brea ers' (Gazette, headed, "Unreliable and Unpro able Melp. Each year, we read, the prime sure for farm herp increases, arer declines. While the efficiency: of the laborer dectines vease of the number of factories in a farmin rict creates a market for his product and wuls to the value of his land. He loses sight of the granting the increased demand for dairy proflucts and garden truck, the factories rob him best laborers and increase the prices of wage manded by the residue of cripples and aged iw caunot stand the pressure of factory hours and on the tax duplicate increases the sum of the farmer's taxes, which he must meet out of the no heasing crops which the farm prodtces under the Young men and women flock to the factory centers, and very fell retarn to the farm of tany hiner dance halls, picture shows and vambevin unfit all these laborers for the healthful, quiet. 0 and averse to the rational, sensible living of wellhad for reading sensible, practical books or farm iournals. After hours, they seem unable to apply themselves to ans rational or sensible work, study or enjoyment. They long only for the crowd they are separated from, as does a sheep shut away from its old flock.
". It is easy for university professors and setasing theories of attracting the country lads and lassies with interesting books, papers and plays, o charming that they will not leave the farm for the factory. But as yet facts and practice are against the best-spun theories we have. It is a ices and dissipations if the factory town to preer the peace and quiet of the country. It is about as hard to "to this as to induce the lover
of strong drink to exchange that for buttermilk
$\qquad$ he is talking abobit. It is a comforting change from the superticial nonsense so often handed out There are just two points we should like press home in caplanation of the zonditions dediscrimmatory uneconomict legislation in multiply Ing the farmer's problems and curtailing agricul Cural production. Politicians intent upon buildsimen that the agricultural popilation was a table community, which would go on producing. ments were artificially raised to an indefinite exmeet, if not the nature of their mistake, is com-

The Innocent Investor.
Did you ever have anyone try to prow to som have your wits about you, for I am going to try it now. And I mean to prove it to your entire
satisfaction-or, rather, I am going to prove that white is black--which amounts to the same thing. What I am undertaking to prove is that the honest, thrifty citizen, who not only earns his living, but invests something for a rainy day, is a
den to the country. In fact, he promises to become an intolerable burden, unless we take him in hand at once. And yet he is doing only what every man should do. He has no intention of being a burden to any man. On the contrary, he prides himself on the fact that he owes no man anything, and that he pays as he goes. He is our best type or cine the sible as that black should be white, and yet it is absolutely true. It is not for nothing that our big financiers have been called Wizards of Finance. They can do wonderful things, and the most wonderful they have done sofar is to change honest,
decent citizens into a public burden. And they decent citize for their health, either. They did it
didn't do it to protect themselves while making their milthat, if you try to punish them for their misdeeds, you will find that the men you will really
hit will be the best citizens of the country.

The cartoonists love to show farmers and laboring then as beasts of burden who are carrying the capitalist and his money bags on their bowed backs. This is all wrong. The capitalist
never gets on our backs if he can help it. If by ains chance he finds himself there, he scrambles off as quickly as he can. His great trick is to sell the seat on our backs to the Imnocent Investor and get away to a safe place with his money-
bags. Then, when we get mad, and try to throw off our burcien, we find that the man who is oppressing us is a grood citizen, who would not do us any harm if he could possibly help it. He is
as tuuch surprised as anyone else to find that he is a burden to the producers and consumers of the country, but still he paid for that seat on ou backs, and youll bets mene back. stin't ret it back irom the capitalist, and we have not yet reached the point where we are willing to pay him to get off, so we go on carrying him and wondering what we are going to do about it way, but that is the way ideas come to me first and perhaps some others get hold of things in th
and a plain, matter-of-fact way. During the past few years a great many mer
gers and combines have been put through in this country, and it is notorious that most of them are grossly over-capitalized In one case in the have in mind, the that were merged into one and yet bonds and stock were issued to the ex tent of five million dollars. Having a mon paying Oneral dividends on the five millions. This could (1) materials used hy the concern less than they hoished product more than they should pay. It himished product more than they should pay times
has become necessary to pay profits on five time has hecome nectssary to pay asted. This is out-
as much capital as was invester to know
riageons, of course, but 1 should like to warreons, of course, but I should Tike to


ewn hen to uld. Thes pot awas with their loot as len to 1 . Thes got awny with their loot as if a getting rid of them. be Whtit we find some way Wust how thuse mergers are put through, and
Who pronits by them. will never be made ent irely clear unthl one of them has been thoroughly inlestigater Bercause the promoters of the Cemen spoils, we are promised an investigation. If it is sufficiently searchings, we may lind out something hat wili guide us in trying to effect a reform litken became millionaires almost overnight by promoting mergers and selling stock to the innocent investors. is suggested above, Sir Max did not contimue to be a burden to but took his millions to England, where he is now a prominent figure in the Imperial Parliament Rut the people of Canada must pay dividends on the stock which he created and sold, if the thrifty prises are not to lose the money they paid to him. In putting through his mergers, he produced nothing of value to the community, and effected no econormies that will benefit the country, for people are now paythg more for cement and
the commodities he operated with than they were before he undertook to merge the competing busiThere is one outstanding fact, however, that
we may be sure of even without an investigation we may be sure of, even without an investigation.
$\mathbf{I n}_{n}$ order to put through mergers, the promoters In order to put through mergers, the promoters able them to purchase the necessary options and carry the stock until it has been unloaded on the could provide the necessary money are the Canadian banks. They control practically all the savings of the people, and gather it together through their branch banks, so that it can be used for
just such purposes as effecting mergers. That it just such purposes as effecting mergers. Whether it should be so used, is a question for you to answer. There is a prevailing impression which no entirely justificd by our banking laws as the cerns, that have a right to do whatever they like with the money entrusted to their care. Why this impression should exist, I fail to understand
The banhs do business because of certain privil The banks do them by the people, and they do business almost entirely with the people's mons which they receive in the form of deposits. present, the money of the people deposited in the banks exceeds means that when a merger is be ing put through, they use eight dollars of the people's money for the purpose to every one the shareholders if a bank were almost as much a public institution as any department of the Goy of the people, their operations affect all the people it the people, thair operations afict nll the peopl
from the lowest to the himhest.
Dloes
omething to say athom the money of the
 ent is to deposit their money and await the re-
sult in a resignea spitit. They do not seem to realize that when a merger is put through that own mones that is used for the purpose. In several letters 1 have received from share-
holders in banks that have failed, the writers spoke of themselves as ". Innocent Investors." I sympathize with them entirely in their misfor cunes, and vet I do not regard them as "Inn-the phrase. If they choose to put their money into institutions over which they cannot open to outside inspection, they are making a mistake of judgment for which they are in a measure to blame Themselves. I also find that these men almost
invariably believe that the Government is back of thie banks and inspects them regularly. The sooner they rid thenselves of this delusion, and see to it that the banks are inspected by the
(iovernment, the better it will be for them. They covernment, the better it will be for them. They
should not forget that, during twenty-six years 25 per cent. of. our Canadian banks have failed, owing to mistakes in judgment, or, worse, on the
part of managers and directors. Government inpart of managers and directors. Government in
spection would bring to light the mistaken or spection would bring to light the mistaken or
reckless work on the part of bank officials, and prevent most of the failures that have been so
disastrous to the country in the past. The de disastrous to the country in the past. The de positors should also agitate for outside inspec-
tion, because it is their money that is being used and their money that will be lost if a failure oc
curs.
But most of all, the whole mass of the curs. But most of all, the whole mass of th
veople should see to it that the banks are so in people should see to it that the banks are so in
spected that the possibility of a failure will b spected that the possibinty of a falure will be
reduced to a ininimum, and that the money of the country be not used to give countenance or as sistance to schemes that tend to enrich the few
and rob the many. Capital has been well called "the life-blood of the nation," and it should b so managed that it will nourish all parts alike. The Bank Act is to come up for revision dur hg the coming year. Whe private citizen with out a bank account, you should see to it that your representative in Parliament does what he can to have the Bank Act revised in such a way have had letters from members on both sides of the House, both French and English, saying that they are in favor of a revision that will provide for outside inspection of the banks, and that will
limit the power of these institutions to finance schemes that are against public policy. It is not a question of politics as it stands, and, no matchould wrye himi to act. Canada is a vigorous country, but it is not strong enough to carry the growing burden of Innocent Investors who must have dividends paid on stocks that woul never have existed under a proper financial sys-
tem. Besides, it cannot stand the shock of such bank failures as we have had in the past, and may have in the future unless the banks are may have in the


THE FARMER'S ADVOCATE

## A Certain Mindfulness.

 distinguishing characteristic of this and all other Christian lands is man's love of family andhome, and his care for their welfare. But does
hit it ever strike you that this praiseworthy solici-
tude, in its practical outcome, is often marred tude, in a serious limitation?
Does it always go to the length, not only of
suitably providing for the needs of those dependsuitably providing for the needs of those depend-
ent on him down to the time of his decease, but for the trying period immediately following, as forl the
or instance, to take your own case, have you
your will? Have you provided that made your will ? Have you provided that, in
the event of your being rendered by sudden illness or accident incapable of attending to business,
your life and fire insurance policies will be kept in force by punctual payment of premiums?
These and some other matters in the same con-
nection will surely bear a few minutes' consideranection will surely bear a few minutes' consideration; and if you will permit the hints we ven you, it may be that you will think it prudent and possibly even your duty, to act upon them. F it is very possible that, without any conscious-
ness of being remiss $i$ in respect of these matters, ness of being remiss in respect of these
some of them have escaped your attention.
Your will, for instance: Just one cogent rea-
son, out of many, for making it is that, in the event of your dying without one, your widow, in
order to obtain the legal right to administer your property, would have to ask friends to become sureties for her to the Surrogate Judge, or go to the expense of procuring the bond of a guaranty
company, or, it may be, incur the expense of having a trust company administer the estate. All this may be avoided by a simple will and the appointment thereny of an executor. And it ought to be attendea
become seriously ill. You might not then be become seriousty antly or physically, to give it it
able, either mentall
proper consideration. layed in order that your arfairs may be got into for the purpose. That stage in youre experience
will possibly even protably-be never reached. will possibly even probably-be never reached.
There is a superstition with some that to make one's will is to invite death. A most absura
notion
Logically, it ought rather to prolong life, seeing that it does away with one less cause for mental worry. While you are well, go to your solucitor, and have him prepare the docu-
ment for you.
His fee for an ordinary
will ment for you His fee for an ordinary will
should be $\$ 3$ to $\$ 5$. And it will be money well spent. If circumstances are such that you cannot readily obtain a lawyer s services, then attend to the matter yoursergh you were writing or speakguage a frien, just how you wish your property
ing to a
to to go and who to be executor. Do not attempt technical words or phrases. Mention in the docu-
ment that it is your will: date it, and add your mesual signature. When signing, have two wit-
nesses present. and, while vou are all together. have theul sign opposite your signature, telling them, of course, that it is your will they are
winessing. Do not use for witnesses any per
sins sons who are intended desirabe, and in most
A winl is secially dese
cases indispenseble, where there are children, and
and where it would not be convenient that estate attain the age of 21 years, but, on the contrary,
couid be utilized to inuch greater advantage for their suitable maintenance and education during Reference has been mate to life insurance and
prevention of lapse of policy. In view of the fact that your executor is legally allowed a year in which to administer the estate and pay copr
cies, a convenient way of providing ready money
for the use of our family is so have at least one policy-even if a small one-made payable direct
to your wife, rather than to oour executor. More convenient still is a bank deposit in the names of
vourself and wife, jointly. While you both live. either could draw checks against it and, apon
the death of either, the survivor could continue the death of either, such arrangenent is important. for even if your widow or some other menter of
your family be your executor. some time must necessarily elapse before probate can be obtained,
and with it the right to use cash or render your There are many matters that a prudent husband and father will attend to, have regard to
the situation of his family upon his death, and. in order to their reing sparect perphent.
haps disappocint nent. Your wite, or some other member of your raml -at least, in a general wat of your property,
investments and business, and where the books investments
and papers pertaining to same, and
counts generally, are t" be iound
Destroy from time to time all papers that have ceased to be of use, and so save your exe-
make a point of keeping in an alphabetically-ar ranged portfolio, or some other or
your receipts and returned cheques
Always, you ought to keep an itemized invenCory of your furniture and its value, and revise
same from time to time, so that you or your family, in the event of fire, may have the neces The biect of this article has been serve The object of this article has been served it
we have induced you to think about the subject in a practical way. A little real consideration of your affairs, and the situation your family would be in regarding the same, in case your
death should unexpectedly occur-say a week hence -will suggest to you, in addition to the foregoing, other matters that ought reasonably be at tended to in the interest of those near and dear dence upon your having your aflairs in reasonably good order for the event that is bound to come

## Rupal Mail Sepvice.

In expectation of wisely-contemplated develop-
ments in the rural-mail delivery system of Can-
ciate information regarding the manner of service that ought in due time to afforded them. Something has been learned by experience al ready. We have, fortunately, also available, the
results of 15 years' growth of rural delivery in the United States, under conditions very similar to our own, by which to profit. The general
jurisdiction of the American service is from Postal Department at Washington, under P. V. (Division of Rural Mails). A similar office, but under another name, is contemplated at Ottawa. Having begun, the service is bound to grow. There will be no going back in Canada. The States started in 1897 with 82 routes and an ex-
penditure of $\$ 1.1,840$, which grew to 41,656 routes and an expenditure of $\$ 37,126,812$ in 1911. Last year the maximum salary of rural carriers was increased from $\$ 900$ to $\$ 1,000$
graduated according to mileage,
six miles and less than eight being $\$ 440$, on up to twenty-foun miles and more, $\$ 1,000$. There was a net increase of 577 routes during the year, the petitions
rejected being because of insufficient patronage and bad roads, chielly. The total routes covered a total mileage of $1,007,772$. By careful estimate, the weight of mail last year delivered on
rural roules was $296,168,779$ pounds, and col-
lected 11 pin7 819 pounds lected 11, 377,819 pounds. Out of the vast army
of carriers employed during the year, only 222
were dismissed for cause and careful observation has convinced Mr. De Graw that the standard of examinations a higher class of employees, and that the salaries should be automatically increased 5 per cent.
after five years' service, and 10 per cent. after the vearls service. It is also recommended that It is further advised, in the last report, a copy of which we have just received, that there
he uniformity in boxes on "Rural "and "Star"
re roules, with accommodation for packages that
may be carried hy parcel post : suitable automafainted white. Is officially defined, the general purpose of the 1. . rural delivery is to carry and collect mails for their mails. Persons residing within the coronlice, or livint within less than one-quarter of a rate limits exist. Cannot be served by rural car-
rier axcept by specific order of the Department An ciception is made in case of persons outside ranceni that the carrier. Will not be required to re-
trace or travel over the same road twice and extensions are not mame road twice per day,
trons living reasonably near the road regularly travelled Routes are established on petition;
for he 21 -mile route, six-times-a-week service,
sirnin signed by 100 heads of families; shorter routes iis, but not more number. More than one famhox. provided signed written notice of agreement
to that effect is filed with the postmaster distributing oflice. The use of locks is encour-
areal. liut are not imperative. If they are used the carm must be "furnished with kers. Patrons ment. and waced liy the roadside so that the carom his whiclu, and yet without obstructi Wivery on mostentiow ine then
master-General, who takes action; and, if auth-
orized, the Civil Service Commission establish.s. list of persons eligible for the position of carrier If roads are not kept in passable condition all
the year round service may be withdrawn. Whereservice from post offices located on or near railroad having a good railway mail service. Rural carriers are required to deliver box of a patron all mail addressed to his family, spatch. They are not required to collect coins placed in the patrons' boxes for payment of postage, but will collect such coins when securely rapped or placed in a coin-holding receptacle. must be delivered in person to the addressee, a special-delivery letters, the carrier is required to deliver in person at the patron's door, if within
one-half mile of the route. Rural carriers are re quired to carry a sufficient supply of stampe stamped envelopes, postal cards, and newspaper wrappers. They are empowered to receive matter for registration, giving proper receipt there-
for, and to accept money for the purchase of or, and to accept money for the purchase of
money orders, for which receipts must be given to the patron. Rural carriers may carry packages of merchandise for hire, for and upon request of patrons, provided such matter is not mailable
and its handling will not delay or in any manner interfere with the mail service. Carriers are not permitted to leave their routes while on duty receive or deliver such merchandise. They are
not perinitted to receive orders or solicit business for any person, firm or corporation. The 1cent rate on drop letters does not apply when such letiers are collected or delivered by rural
carriers. Drop letters so collected or delivered must be prepaid at the rate of 2 cents for ance or fraction therenf
The United States rural-delivery system is stated, over $\$ 37,000$, noo the the postage collected cost being some $\$ 29,500,000$, but the excess of of the service to the citizens of the nation, chiefly the agricultural classes, is attested on every side. paying branch of the postal service directly, a revenues can be greatly increased, and the accommodation of farmers and business men vastly pro-
moted by the establishment of rural parcel de moted by the establishment of rural parcel de-
livery, as yet unavailable because of the prohibitive U. S. rate of postage and weight pro-
$\qquad$

## HORSES.

Remember, when mreeding vour mare
demand. A small draft horse is the horse
correspondingly small price.
Over-exertion should be carefully avoided in he spring work. This is especially true of the diently yroken colt whose muscles are not suffimina and endurance in him as we look for in the

Frequent shori rests or breathing spells are
much more beneticial to the horse during seats ways allow the horses to face intervals. AlIrom their hot shoulders for a few minutes, at hand. This cools the parts which come in contact with the coilar, and the rubbing cleans away oward preventing scalling and sore shoulders.

Present-day horse prices do not indicate overpoint to waning of popularity or utility of this
class of stock. Recontlather do they County. Ontario, Recently, at a sale in Oxford S625. It is said that the United States is $\$ 200$ to $\$ 500$ each do not bring out enough from mals to supply a growing demand. The Canadian West is ever in need of an increasing number. til Fastern Canada finds herself none too well piy city trade. Such conditions should prove a good incentive for horse-breeders, and every suit-

Veterinapy Prescpiptions for Farm Use.
Absorbents are medicines or mixtures that in-
crease the activity of the absorbent sustem and tend to reduce chronic enlargements. Their acglands, but they usually give good results in most. and, in some cases, even bone ; in bursal entarre ments, as bog spavin, thoroughpin, pufis at fetlock or other joints, etc. They are sometimes
especially in cases of entarged glands) adminisered internally, and applied locally. The active principle of most, if not all, absorbents is iodine, or some of its compounds. When internal abdly used and given in one-drams doses two three times daily. If this causes a loss of appenost horses can take dram doses without danger

There are mans different combinations of aruge used for external application to produce absorp-
tion, but all contain a considerable percentage of tion, but all contain a considerable percentage of
iodine or its compounds. Any of the under-

Biniodide of mercury-2 drams Iodide oi potassium-
Water-8 fluid ounces.

Tincture of iodine- 2 fluid ounces
lodide of Ammonium-1 ounc
Water to make-1 pint
odine-4 drams.
odide of Potassium-4 dram
Glycerine-4 fluid ounces.
A little of whichever prescription is used hould be applied with smart friction once daily, should be continued for a considerable length of time. If a blistering action is produced, the ap-
plication should be discontinued for a few days. and a little sweet oil applied daily in the meanhe absorbent should be again applied.

An anodyne lotion is used for the purpose of allaying tocal pain and imfamination. In cases of sprains, hrinises, acute intlammation of a pain in the early stages. It is usually evident hat counter-irritation, more or less severe, by
he application of liniments or blisters, will evenually have to be resorted to, but it is not wise lammatory stage, and hot applications and anodyne lotions are usually employed to allay it. a. the following simple one is as sood as any Tincture of opium-3 fluid ounces.
Chloroform-1 fluid ounce

The inflamed and tender parts should be wel hathed frequently with hot water, and, after bath(he lotion which cloths or batten saturated in contact with the parts avoided, as the parts are too tender to stan presure. For the reduction of local inflamma Ewoil results. Hot water soothes the irritation will tenderness more quickly than cold but coter swelling more quickly, Warm water sixes practically negative results; the we either hot or cold.
$\qquad$
$\qquad$ $t$ imedieinal ingredients mixed with oils, fat
$\qquad$ the constant application of the white ss of the parts that there is danger of the
cracking. In such cases the application o intment is either alternated with that of thi
or used entirely. For purposes of this or used entirels. For purposes "in the
the oxide of zinc oint ment is generally used
fives good results fives good results.

These ingredicms. atw eratually mixed at a


Percheron Importations.
$\qquad$ horses were itmported into C'amada. Of this num-
ber 117 staltiolls and \& mares came from France,
and 192 stallions and 152 mares from the I nited States. The horses coning from the Tunted states, at a conservative valuation,
were worth more than a quarter of a mil-
lion dollars. The trade is increasing in 1912 . between Samuars ist and March 25th, 1912, one from the inited sitates, and there seems to be every probability that Camada will import from
the United States during the present year Percheron horses to the value of upwards of one-half million dollars. Most "if these horses are being
imported by farmers in the West. Horses are uneded in that fast-developing protion of the Do-
$\qquad$
LIVE STOCK.
for the pigs. Aclover run and feed is a great advantage in summer feeding.
The man who raises his own cattle to feed The man who raises his own cattle to feed
can usually make better returns from feeding young cattie, while the feeder who buys his cat the gets greater profits from feeding heavier stock, owing to the spread in price working on a greate nitial weigh
various grain mixtures for fatten The wethers for show-yard competition has been studied for three years by the Animal Husbandry lepartment of the University of Wisconsin. Each year, four lots of wethers were fed, as corn, one
Iot 1, five parts oats, four parts part wheat bran. Lot 2 had peas substituted for the
corn ; Lot 3, barey in place o
orn ; Lot 4, fiv parts oats, and Each lot received, in addition, the
same quantity of
sluver bager, hay, cab-
poots. On the basis of uwards made at the International
Live-stock Exposheep, were shown
yearly, Lot 2 was yearly, Lot 2 was
first; 3, second ; 4, third, and 1,
fourth. Lot i
showed a tendency showed a tendency Habby carcass, the
fat being d $e$ fat being de -
posited largely on
the exterior of the the exterior of the
body, while Lot 2 showed carcass-
es in which the es in which the
fat and lean were
well well mixed and
the flesh was of
tirm texture and oin texture and
of desired cherry-red
that meat extor
experts demand
There is a point
 "I) long, suw them off. 4. and oats is the order.
$\qquad$ Trovide some system of marking the lambs
foon after birth. This is necessary with pureous in the spring, before there is any the mead
bred sheep, that the petigrees be kept accurate,
and would also prove valuable in case of grades. and would also prove valuable in case of grades,
as the breeding value of every ewe in the flock could be easily estimated. A system of ear-
wertheateming, curry him every way.
In promiterning is the best plan, followed by substantial
not
How many brod sows are discarding this spring because of high prices of grain and comparatively low prices of pork during the past
vinter? Think before disposing of them. Many seful brood sows will doubtless be slaughtered, and the outcome will be high pork prices next

Allowing the stock to wander over the mead
hus. The mainority of people feed tor much hay.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
may cause indigestion and bloating, and the
tramping over the meadow punches fit full of
holes, and destroys much of the sod, to say noth-


Crippled and Uncrippled Hogs
Tou ask for erexperiencee with crippled pigs, and
 ers. $\quad$ our exper exience of late years has been almost allogether with the bacon hog. We do not breed





 wo may say we never say a acriptelt pig white started to feed mill feeds, and especially the
ground bran, called shorts, trouble began. ground bran, called shorts, trouble began. Some
of the pigs would qet crippled-those with the
weak constitutions first, next the greediest pigs; weak constitutions first, next the greediest pigs;
then the uncrippled would attak the crippled,
and would soon kill them if they were not removed. Many a pig we have carried out of the
pen to save its $1: 1$ fe and cure it (for they can be cured. .
Many years ago, in .. The Farmer's Advocate,' growing corn or roots?" The champion of the tatoses will cure crippled pies.". At that time had never seen a crippled pig, but I said to my
self, "Put that in one corner of your memory
you may need it some day." And so, when carried out my cripples, I fed them raw, when prevention is a lot hetter than cure, and I com so that 1 would have no cripples. A great deal of nonsense has been written on this subject
writers advocating a lot oi exercise, condemnin writers advocating a lot exercise, condemnin but the best pig-feeder I ever knew had a little pen, made of one-ply rough lumber, on the north
side of his barn. The pen was for one pir and was about three feet hy eight; and when the pig conle not turn around in the pen he knew it was
big enough to kill. His secret was he alway warmed the feed with cement floor slonty pigs in a pen 22 by 14 one end, with an oak plank eight inches wide by
two inches thick placed on edge to make a box to two inches thick placed on edge to make a box to
hold the straw for $a$ bed in the highest corner and a healthier lot you never saw, the fat fellows picking the coolest places of the cement on which placed outside trough is also cement, 22 feet long placed outside the pen in the feed passage, this way twenty pigs can be fed in less time than two the old way of mixing in pail or barrel. The
trough is six inches high, and the partition, 18 inches ahove to let the pigs to their feed, and is fastened in place by two short boards fitting across the trough. In this way, a man with a white shirt
on can feed his pigs, or a boy five years old can Feed them, as feed and water are close to the
trough, and the next feed can always be mixed as soon as the pigs are fed. This is an invention
of which we are very proud, and it is not patented. also, ns we know they are about two hun
scales,
dred pounds each when the iwenty fill the trough Now, to go back to our system of feeding When we get the little plgs home, we give then tle barley meal for a few days, so that they do
not receive a check at weaninetime; then change to skim milk or buttermilk, if we have it, if not,
water, continuing the barles meal, as much as water, collinuing the barley meal, as much as
they will cat, till they go to the packer, at about six months old. They are also fed a large chaff
basket of clover leaves daily. which drop off the hay, also, if toall potatocs raw we think pound potatocs kill the large white worms which some times cripple pigs, We use to give the drink first
and then dry meat, but get botter results hy mix ing the meal with the drink. We like winter fee ma better than summer, as our pichouse
warm, and pork prices are highur and feed chea er. We have never had a crippled pies when tin
barley alone, but this year we coulla wot barley enough, and three criphed.
three in a littile pen $5 x 10$, with cement tho
packers do not care anything about cost of pro
duction. They are like a Montreal butcher with a drover, who was offered less than cost for his a drover, who was offered less than cost for his
cattle, and, protesting, the butcher said: "We
do not care what you paid; we do not care if do not care what you pald, we do not care if
you stole them.". The only thing that moves the
packer is when supplies are so small that butclipacker is when supplies are so small that butch-
ers need the most of them. Now, most farmers ers need the most of them. Now, most farmers
are not business men, and so do not know what are not business men, and so dor hot know what dge do them? They are the only manufacturers Tho have no say about the price of their goods. the middleman produce the goods. Is to the cost of the bacon hog, with feed a dollar a hun dred, little pigs a dollar and a half each, and ars a hog for labor, shim milk, potatoes, etc This year we have sold at eight cents, and only Come out about even, as feed has been so dear expensive feed this summer, and the city man who expensive feed this summer, and the city man who
likes breakfast bacon had hetter buy a little pig now and feed it for hysulf in the cellar, and then he will cease railing at the farmer about the high

## Baby Beef Feeding

$\qquad$

Feeding Cattle in Bpant County ('ornmenting on the cattle-feeding situation dur County, Ontario, placed the number of cattle fer every hundred acres. These cattle, as the smal numbers would imply, were nearly all raised on $4 \frac{1}{2}$ to 5 . bles last fall. A large proportion of the cattlo were very light, weighing only from 600 to 700 export cattle were fed, but were turned off in rali-finished condition at from $5 \frac{1}{2}$ to 6 cents pe
pound. Most of the lighter cattle were for pound. Most of the lighter cattle were for local $5 \frac{1}{2}$ to ${ }^{6}$ cents per pound. One stable of export cents per pound, were sold for spring delivery at 7 cents per pound, leaving a 2 -cent spread. Ordipound a fair spread but to make $1 \frac{1}{2}$ cents per profit, with feed as high in price as it has been sary. From his own experience, he thought that
owe $2 \frac{1}{2}$ cents margin is neces creater gains colild be made with young cattle. cold. which he bought and fed $4 \frac{1}{2}$ months, along with one of $h$ a own raisine. during which timg they made an average gain of three hundren
pounds. They were then turned on trass and they were again stall-fed. The meal fed was 0 they were again stall-fed. The
two-thirds harley and one-third whe
gol a gallon at a feed, together Lol a galon at a feed, together
cher with one-half a mangels were ready he end of twelve months

pounds, re per pound was refused
for these cattle for for these cattle for last
Christmas trade, as
they were kept for a
short course in stockshort course in stock-
indging. The calves made the hest gains the
first winter, according meal fed. The cat
were sold in March wo of them weighing
$\qquad$ These
receive he believes necessary
11e has a pipe arranged
ail the outside of the on the outside of the
basement wall, starting wall, starting pround, and extending up over the wall into
the stable, the end
covered with cheese cloth to prevent draft.
ed up through the roof We wonder if all the
attle-raising districts Canarla marketed beef cattle per 100 believe that such believe small number were fed off "The acres this win cows. Such re with his young and, where such beef pay

Rations from Single Plants
$\qquad$
for heavy weicht for the age, they were of that
particular kind of stulf. when is nemanten on this
on the exclusive corn ration to the wheat ration,
without death ultimately occurring. wou the oher
hand, a mature wheat-fed animal could be changell to the corn ration, with marken improvement

$\qquad$
THE FARM.

## Knots, splices and Ties.

$$
\begin{aligned}
& \text { Editor "The Farmer's Advocate" " } \\
& \text { charcely a week passes whe some of these } \\
& \text { con }
\end{aligned}
$$ splices, hitches or knots could not be used to advantupe. There are occasions when, to know

how to make a splice would save both time and money. The hay-rope hreaks when it is most
needed, and if the directions here given are careneeded, and if the drections here given are care-
fuly studied, anyone will be able to mend it him-
self The following knots and splices are most practical, and arter a person learns to make them, a
number of dififerent uses can be made of these knots and splices, enabsing the farmer to make
halters and slings for throwing animals and halters and slings for throwing animals, and other
similar, useful articles. The Bowline Knot.-This knot is most useful
and important, as it will not slip and is easily untied. Ind learning to tie it, a ring (r) should Virst, nake a loop (b) in the standing pasted of
the rope two feet from the end (a). Pass (a) the rope two feet from the end (a). Pass (a)
through the loop (b), and around the standing part (c), as shown in firg. 2 and 3. Then bring
the end back through the loop (b), as in Fir. 5 . Draw the knot down hy holding (c) in one hand
and (a) and (o) in the other, and giving a slight
 or loop in the end of a rope. It is useful in
making halters. To make the eve splice, untwist the rope about six inches at one end, then double
 Fig. 1. Iet the middle strand (a) lie on $(x)$;
now. holding the loop in the left hand, raise one of the strands on (x) on the side nenrest one
Push (a) through under the raised strand (see Fic. 2). Now put strand (b) under the next
strand bevond the one (a) is under (Fis, 2 ) Yext, turn, the rope hack, raise the third strand in wider the strand in the tirection taken hy (a)
und
and (i) strand of the main trope. No two should be
under the sione strand under the same strand or come out hetwen the
same two strands. Now splice the three strands The Long Splice.-This is by far the smoothest splice. and will run through a pulley as easily as
the remainder of the rope andl the most important of all splices for splicing hay roper. To make this splice, the strands are Unwound alont two feet. The ends are placed Cogether, with each strand passing between tw rope is used. The others are twisted together (Fig 2). Then, one strand (f) in rope $(y)$ is un-
wound, and the corresponding strand of the other wound, and the corresponding strand of the other
rope (c) wound in its place.
Do not unwind too (he (f) (c) is started. Then continue unwind tiehtly and wisted until within three inches of the end of (c). Then draw (c) and (f) together as
in Fig.
and C. irmory into the gronve which (f) occupied. Next Iv fasten the ent ends. (f). This is done to secure
Now turn the rope around Sakine the rone (Y) in the left hand untwist (a) and (c). and unwind and fasten them the same as
with (c) nd (f), wnivining (a) After (a) and
(c) are fastenced, untwist (f) (f) (d) : fasten right
 The Tlali
 it is tied so that the pull on the end of the rope it is not. This is because the excess of water harder the pull, the tighter the hitch becomes. In without appearing muddy, would cause it to run using the half-hitch. several should be made, one together, thus expelling part of this absorbed rope to slip in case the tension is relaxed. and soil of different texture and porosity, underIllustrations reproduced from I. H. C. Alman- drainage is not necessary, but in Ontario it is es
DANIEL CLARK. Sential, and more and more are being convinced of this every year. Law No. II. for Ontario, or No. I
for Alberta, is to plow deeply. In Onfor Alberta, is to plow deeply. In fall.
tario, this would be done in the fall
In case the fertility of the subsoil is doubted, the depth of plowing should year. The idea in deep plowing is to
ioosen up a large amount of soil, to act as an easily-filled reservoir whe
rain or snow water dons rain to keep it there or let it gradually
so soak into the subsoil. The space for obtain more plant food, first, because they go more deeply into the soil, and,
second, the oxycen of the air has freer access to the soil, thus aiding the soil
anderia in liherating plant food, in bacteria in liberating plant food, in
preventing the destruction of the of the nitrates, which are very valuable foods,
and in carrying away the impurities given of by the roots. April and May. Nearly 5 inches of rain alls in these two months. If the grain gere sown and the ground not touched

## Dry Farming in the East.

 Farmers in Ontario, on reading accounts great "Dry Farming" "conventions, at which reports are given of the remarkable yields obtained by adopting this system, almost wish they were out West, where crops can be grown, as some
suppose, without rain. This is particularly the case after a summer like that of 1911, when many of our field crops suffered severely from a scarcity
of moisture. Burbank, the great scientist, is of moisture.
endeavoring to
obtain a spineless cactus capable of growing and supplying fodder in arid regions but as yet his efforts have not been crowned with success. However, such a plant may come,
until then we must do with those we have. The epithet, "dry farming," is a misnomer, and the idea that moisture is not required is a very er roneous one, for " dry farming " really means ing is practiced most extensively in Alberta and some of the Western States, but the principles can be profitably applied in Ontario
In the southern part of Alberta the rainfall is 12 to 15 inches annually, with the heaviest rains age precipitation is 13 inches for the five growing months, April, May, June, July and August, and then we average over 13 inches for the other months; whereas, in Alberta, they have very lit-
tle snow or rain during this period. Surely we tle snow or rain during this period. Surely wa here.
With the doctrine of Campbell, the apostle of the dry-farming movement in practice, every possoil is method of conserving whe the rainy season is over, the surface of the ground is not allowed to remain packed, thus facilitating the evaporation of the moisture the she retain the Where steps are taken to secure and retain the
rain, the supply of water is usually sufficient for an abundant crop.


The Bowline Knot.
tario., eine in un hess intensive way, the advantages
would be manifold.
plant foods contained in fertilizers. It, thereiore, behooves you to study the principles of ferti-
lizing, so that you may be able to judge the approximate reguirements of your crops and soils,
pounds as 18 c ., so that multiplying 49.20 by ton of the fertilizer. The same process of calch and to estimate the value of any fertilizer from

How TO Valde a Fertillizer
Now, the valuation of a fertilizer soon be-
comes a very simple process. Supposing we take the value of nitrogen at 18 c . per pound, a a ailable phosphoric acid at (ic. per pound, and potash at
jc. per pound, these being the prices at which fou can. in this locality, obtain the three plant phate, and muriate of potash, respectively. The ligure for potash is probably rather high; in the corms of muriate of potash it would be nearer $4 \frac{1}{2}$ little over 5 c . Now, I have here the catalogue of a fertilizer firm, and shall take one or two
examples from it. The analysis of one of their brands, said to be suitable for all crops, is stated Vitrogen … .................. 2.46 Per cent. 4.10 $\begin{array}{lll}\text { Equal to ammonia } & \text { anc..... } & \text { to } 5 . \\ \text { Available Phosphoric Acid. 8. } & \text { to } 10 .\end{array}$ Available Phosphoric Acid. 8.
Total Phosphoric Acid $\ldots . . .10$ to 12 .
to Equal to Sulphate of Potash 11.10 to 14.80
Now, in commencing our examination, we draw line through "Ammonia," "Total Phosphoric Acid "and "Sulphate of Potash," since we need Acid, and Potash. The object of the manufaccurer in stating the equivalents of these in other
forms is to make the percentages appear higher This is often very misleading to the uninitiated. You will note that potash is quoted as "equal to sulphate of potash," but it does not necessarily follow that the potash is present in that form.
In fact, it is a pretty safe bet that potash is present as muriate of potash, the latter being cheaper than sulphate. For most crops $t$ might not make much difference whether the
potash were in the form of sulphate or muriate, but for such crops as potatoes and tobacco, whic! require their potash in the form of sulphate, in order to insure highest quality, you can see that
it is most important that you should know what it is most important that you should know what
you are buying. Let us now proceed to estimate the value of our fertilizer by applying to the percentages the aforementioned prices per pound of the three plant
foods. The percentages, you will note, are stated a
minimum and maximum ; e. g., potash is state minimum and maximum; e. g., potash is stated
as 6 to 8 per cent. Now, do not be so optimistic as to hope that the full 8 per cent. is there xo, it is the object of the manufacturer to figure as closely as possible to the minimum guarante without falling below it. In this he is not al ways successur, inter in one or more of the in gredients. We, therefore take the minimun Euarantee in working out our calculation.
Now, we find 2.46 per cent. nitrogen Now, we find 246 per cent. nitrogen; 2.46 pounds of nitrogen in every 100 pounds of the fertilizer, and there heing twenty hundred Co get the menther of pounds of nitrogen in one ton of the fertilizer. This, of nites 49.20 pounds
tof nitrogen. We. fook the value of nitrogen per


$\qquad$ Xitrogen … ............2.46 20 年

$\qquad$ In this way we find the ferterlizer under consitcration to he worth $\$ 24.45$ per ton, and I
know that the price at which it is offeret know that the price at which it is ofiered to yon
by the manumacturer is much in excess of this.
I.et us now take the total amounts of nitrogen, avalable phosphoric acid and potash, and
find what quantities of nitrate of soda, acid phos phate and muriate of potush, respectively, would Nitrogen-49.20 pounds would lee contained in 329 pounds nitrate of soda ( 15 per cent. nivailable Phos. Acid. -160 pounds would be contained in 1,067 pounds acid phosphate ( 15 per
cent. available phosphoric acid). otash. -120 pounds would be contained in 2400 pounds muriate of potash ( 50 per cent. actual

$$
\begin{aligned}
& \text { Total................. } \\
& \text { Filler................... } \\
& \text { Pounds. } \\
& \text { pounds. }
\end{aligned}
$$

365 pounds
$\overline{2,000}$ pounds.
We thus find that 1,635 pounds of the separate materials supnly the amounts of plant food con-
tained in 2,000 pounds of the ready-mixed fertilizer referred to, so that, in order to make up of sand or other ". make-weight." As already explained, the filler is valueless, and only inVowses the cost of freight and handling. another from the same which is said to be a "Mean Fertilizer." Here, again, we find, besides the nitro-
gen, available phosphoric acid and potash, also the equivalents of these in terms of ammonia. total phosphoric acid and sulphate of potash, and likewise, the percentages stated as minimum and
maximum. According to our method. emploved with the other fertilizer, we shall now determine the value
of this one. ignoring eversthing in the analysis. axcept the nitrogen availahle phosphoric acid



$\qquad$
$\qquad$
$\qquad$bertizer is $\$ 18.54$, butfore than $\$ 1: 3$ to you as a fertilizer for woans\& I stated alromls, heans have the power of assimilating the mirogen of the atmosphere, and
therefore, as a rule.crtilizer. I say "as "rule", since there are in-With your systum of rutation, however, which, I
mid then, som "pl/ harnyard manure to the bean
now to think, from
theTonage ame slow whing if the pols.
n, only valu-itage of pot-

most people prefer sport for exercise, and let someone work with the lady in the country is just as much en-
the
titled to some of the rood things of life as her tisted to some of the good things of life as her prove a good thing for her. In fact, big houses
are becoming a burden in towns, as well, owing to the scarcity of help. Girls prefer factories and oflice, rather than house-work. And there are
tragedies in the big houses in the city, also, ragedies in the big houses in the city, also, if
you get behind the scene. I met with one case you get behind the scene. I met with one case
that illustrates this. With some mutal friends, I called upon a couple in a distant town. They had a very large, fine hous was then over 70 -not much prospect of a large family, unless "hope springs eternal in the human breast.', I asked my friends whatever did they build so large a house for. They said they did not know, unless it was to secure his young
wife. In equations, this would read: One old man, plus one big, fine house, equals young wife.
There is eomedy, as well as tragedy, in this big house business, but where is the common sense of it all ?? The comedy, though, happened in town. Later on, Mr. Winter and Mrs. Spring we find living at a boarding-house in the same town where Health poor : been travelling : too hard to se cure necessary help ; more real freedom and pleasure in the boarding-house, and not very much there. A boarding-house to live in, a big house shut up, no real home anywhere. What starts
comedy ends in tragedy. Oxford Co., Ont

Home-made Copn Tester Best. ust as good results as a $\$ 30$ one," said an structor at the Ohio College of Agriculture the ther day, when asked about the advisability of
armers buying high-priced testers. "There are a good many different kinds of testers on the market, selling at prices varying from $\$ 5$ to $\$ 30$, ut experiments have shown that the farmer can of boards that will be just as satisfactory," coninued the instructor. "The farmer who wishes to test his seed corn to see if it will grow need
only make a square box about three or four inches deep and fill it with moist sand. Of course, the larger the
cloth, and mark the surface into a piece of cheese loth, and mark the surface into two-inch squares, by marking the cloth. Each square in the tester is to contain the kernels from one ear of corn
that is being tested. After the kernels are properly placed, they should be covered with another sand placed on top of this, and the whole thing et where it will have the proper temperature. The idea is to approximate field conditions as priced equipment

Does Your Seed Corn Germinate Well spring is whether or not his seed corn ger-
ninates well. As a result of a dry summer and wet fall, corn did not mature normally over a large part of the corn belt, and much of the seed does not germinate well. In reply to a request ion of Secretary Wilson, of the United States orn intended fur seed this spring have been tested by the Seed I aboratory of the Depart-
1 per cent. Lowest Average

state. Samples. \begin{tabular}{c}
germi- <br>
nation

 

germi- <br>
nation
\end{tabular}

Virginia
Kentuck
Missour
Missouri
Maryland
owa
Pennst
Wansas
Kast
Ohio
Indiana
Minnesot
Michigan
Nebraska
Forth Dak The low larger cor
dition is
all cases where ear corn is to be used for seed. pocketbook or bank account, as the case may be When it is necessary to use shelled corn, of which Ontar10 Recently, in Oxford County, grade dair the corn should here refully mixed and tested for germination. Not less than twice one hundred kernels should be used for the test to
having a representative sample. The rate of planting a representative sample be regulated on the basis of the germination test, so there will be a sufficient stand.
Plant the best seeds you can get. Selected corn on the cob, each ear of which
hns been tested for germination, and all of the poor ears discarded, is the best.
If you have to use shelled corn, test it for germination and plant enough, depending upon

## A Seed Corn Test

 which surprised him greatly. No doubt, many other readers will be surprised when they testheir corn, or, if they do not test it, disappointed later. Thirty ears were tested by this corre spondent, and these ears were an excepparatly well matured. Six kernels were taken from eac ear, three from each side, one from the center
and one from near each end. In all, one hundre and one from near each end. In all, one hundre
and eighty kernels were tested. Contrary to ex pectations, thirteen of these kernels did not ger minate. This is a little over seven per cent. But
this is not the most significant feature of the this is not the most significant feature of the
test. One ear did not give a vital kernel, and test. One ear did not give a vital kernel, and
another gave only one, while only two kernels from all the other ears did not germinate. This shows the importance of buying seed on the co
and of testing individual ears. The two bad ear were especially fine ears, with plump, well glazed were especially fine ears, with $h$ hard and apparently vital seed. Yet they proved useless for seed. Had these ears been planted several blank hills would have resulted. The
only absolutely safe method is to test the seed only absolutely safe method is to test the seed
Where individual ear tests cannot be made, mi the shelled seed thoroughly and test it. Appear
ances cannot be relied upon with seed corn.

THE DAIRY

## Pasteurizing the Cream.




 then put them on the table till cooled, or partly they are to be left for cream to rise; and when
a three-gallon crock is about half full of cream, I
put in about a quart of buttermilk from the last churning, and keep stirring it frequently, and
bring it upstairs to a warmer place the day be fore churning to let it ripen, and then churn a
about 60 degrees, but no higher. Butter comes in ten minutes, and is sweet and delicious. A fev drops of color put in the cream will improve th
color of the butter.
$\qquad$
INote.-As noted in a recent article, this meth
od proves a decided help under certain conditions but the vessel containing the cream should no be set directly on the stove. Place it in a larger
one containing water, and then set this latter on the stove. So far as churnability is concerned,
we see no reason why as mood results could not be secured, and labor saved, hy pasteurizing the
cream altogether a few hours heine chen heating to, say, 140 degrees Fahr. for twent

Ontario Dairy Cows Go West.
 able men from the Wast, and also purchasing all
our surplus horses, the West is coming at us once
more. and this time it is the dairy cow that is the subject of the quest. Dairying is fast becom-
ing one of the strong branches of agriculture in the Camadian West. Towns and cities are findit
small ones left out. It is the taking of carrs
the nearest general store, and the delay that takes place before they reach the consumer that
causes a great deal of the complaint regardin causes a great dea.
I know that in some districts co-operative cfy
circles have been formed, but these are renemall in connection with some commission house. The
same co-operation in gathering will bring better results if a sale is made direct to the retail grocer, just as brought down by those larger dealers importing American eggs. Let us also look after our
own interests, as they do, and get the best price going for what we have to sell.
Iincoln Co., Ont.

## A Good Egg Record



## GARDEN 动 ORCHARD

 Canning Combine's Selling Contpacttawa House the other day, in which Hon. Frank O. P. D. Marshal, Prought into the strong light some of the skeletons which haunt to those who are familiar with the financial mean elerings of the borm there is some money and muc water, the discussion, while interesting, was not If the Hon. Frank Oliver had, for instance Canners, Ltd., and asked some explanation re specting this document from Messrs. Marshal
M. P., and Lalor, M. P., the first the president and the second a director of this corporation
Hansard might possibly have had some record that would be really worth while.
For instance, when Mr. Marshall, M. P., dis laimed on behalf of the Dominion canners, Lta roducts, after they left the hands of the Canners suitably inquire and be, in face of the selly and th holesaler. For instance, here is clause 6 of the tal., and presumably duly signed and witnessed by ali and sundry who handle these goods
wholesale way : "" The wholesaler hereby agrees not directly madirectly, to any person, either wholesaler cts of the company, whether now in stock or

Ii clatuse 6 s mement antail list prices." and if words such

 it is evident that the Dominion Canners, Ltd., ab-
solutely controls the selling prices of its products However, this is not all, for, in order to force and take notice of the "ifs" and "whereases"
of the contract, Dominion Canners, Ltd., insert the following rebate clause in its contract:
"Clause 13 .-In consideration of the whole saler purchasing exclusively from the company, as terms of this contract, the company agrees to 10 per cent. on canned vegetables, and $12 \frac{1}{2}$ per counts to be paid half-yearly."
Get the point? If you would dare sell yout goods cheaper than Dominion Canners, Ltd., in it the half year ; and still Mr. Marshall, M. P. says, according to press reports, that Dominion
Canners, Ltd., is as innocent of the charge controlling the wholesaler as is an unborn babe. Canners, Ltd. is one of the most interesting documents that has come my way in many
months, and not the least interesting feature o it is that I am informed, and reliably informed 1 believe, that the wholesale Grocers Gull that was primarily evolved as much to meet the re
quirements of the aforementioned Guild as it wa quirements of the In justice to Dominion Canners, Ltd., I do not from my own knowledge of the situation think
that the Hon. Mr. Oliver's charges that this cor that the Hon. Mr. Oliver's charges that enation enhanced prices during the past season to be well justified, by reason of the unquestioned shortage of tomatoes and other vegetables in
Canada during the summer of 1911. However Canada during the summer of 1911. However this does noting in coniunction with the Whole sale Grocers' Guild, of doing all in their powe
If "can the publices are held down to any extent in Can
$\qquad$ duties on these goors ase the canning people would
might be, or as ligi. as As a matter of fact, Can-
like to have them. As ada was, during the year 1911, and so far during
this year, liberal purchasers, of American-grown
veratelo goods being purchased for just the plain reaso that they could be bought cheaper abroad tha 'To members of Parliament interested in con
tracts, legal and illegal, and to those intereste in a certain Act, entitled, An Act to provic for the investigation of combines, monopolie ion Canners' agreement as about the most inte esting document ever evolved in this country IToronto Saturday Night.
$\qquad$ in New York State. This is the pear thrip one of the most dreaded enemies hrip first became others in California, noticeable. The outbreak of the insect in New York is one of the mysteries of entomology, sinc California and New york are about as widel separated as apears in both, and not, so far as known, in the intervening territory. Its ravages in New York are largely confined
to a small area in the Hudson River district, but to a small area in the Hudson River district, but it is known to be present and may be more widely distributed than is realized. Its work is of a peculiar nature, often mistaken for frost injury or blight, and the insect itself is too small attack, however present in large mon bods, so that, where abun dant the prospects for a crop rapidly disappear Only prompt, thorough spraying with a contact insecticide, like the nicotine pest soon gets will prevent damace into the centers of the buds, where it cannot be A bulletin (So. 343) will be sent, on applicaA bulfetin New
tion to the
Cieneva. without

Topical Fruit Notes.
It is dificult to consider anything as topical out of time owine to a backward spring Like Peter McArthur, with his pencil sharpened, awaitopportune moment to write an ode to for spring work, has been waiting to welcome the budding time with a more prosaic service. Prob ably before this is seen in print both will be wish ing for respite, for, with spraying, cultivating planting, and general cleaning up, the few week ones for the fruit-grower. (dormant) spraying with lime-sulphur to be all finished by the middle of April. This season most growers will not have started by that time hose, however, who wish to be on the safe side o spray by che middle of A ril ot the latest ne large grower in this district started on the th of this month, despite mud and hard-going. renuning is pretty well the done, and, gradually but surely, to see that pruning pays. It may scem strange that everyone in the Niagara methods of pruning. Perhaps they were, but, " slap-dash", method is still prevalent. Peaches have been pruned lightly, as it is generally conceded that the crop at best will be only medium, n

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In fact, judging by contract prices prevailing
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at present, all kinds of tender fruits will fetch a
fered price. The following figures are being ol
ered: Strawberries, $\$ 1.50$, and packages sup-
plied ;
raspberries,
$\$ 2.40$; black currants,
per pound ; red currants, 5 to 6 cents per pound.
There is no need of telling anyone who knows
that these are mighty good share of the the
times. The canning factories are finding it hard
to get fruit-growers, at least (and general farm-
per bushel, and I don't blame the prowers, either.
There is not enough money in tomatoes, at 30c.
er bushel, as prices of other commodities are
ranging at present; and, as the canners are per-
Grits or Tories, but canners), it behooves the
grower to keep on waking up, as they have lately
given evidence of doing. I would like to draw
attention to a very interesting leader on the sales
peared on the front page of Toronto Saturday
Night for March 30th. It might be illuminating
are up against, as well as refreshing to the con-
sumer to know what he is paying for

Success with Brussels Sppouts.
Editor "The Farmer's Advocate ": '/ Brussels Sprouts in your issue of April 4th. This is a vegetable, for some reason, very I was told they would not grow in Ontario but, having imported some seed from England, decided to try them. sandy soil, and when about three inches high transplanted them, setting them about two feet apart. I lost a few from the cutworm, but the greater number brey were being attacked with the green fly aphis, and I sprayed with a weak solution of lime-sulphur, but they were badly smothered, until I sprayed again with sprouts began to show. I cut off the tops of the plants, and was rewarded with as fine a crop o sprouts as any I have seen in the Old Country I intend planting out quite a number this year
and would be interested to know what one could expect to get on the market for, say, a six-quart basket, as 1 have never seen Brussels Sprouts fo sale at any of the local markets, or elsewhere.

Some Canadian Puff-Ball.

In some experiments made at Corncll University, to test the comparative yield from the stem as an averace of 22 varieties for two years, the seed end gave a yeid of 180 bushels per acre. was 151 bushels per acre. It would seem, from
whis. that it would be good farming to feed the

Tomato Seed Selection.

$\qquad$ stead of getting what I asked for, I got a different kind altogether. I usually raise two or three in the same hotbed, only half the seed would come up, so with goocid success; my own seed came up in shorter time, and thicker than any seed 1 ever
bought. When there are about twents bushels of ripe tomatoes to the acre I generally take half select ten bushels tomatoes from the stronger and healthier plants, and take my seed from these tothe right track, or not, if I can keep on selecting my seed from the same tomatoes, with good suc-
cess? My ideas is this: When I select my own seed, I take the best fruit I got; when I buy the good and poor, because I never bought seed with out having false piants in it. This is my twel
years' experience, with about. 15 acres a year.

Ans.-The matter of selecting tomato seed is dealt with in Bulletin 196 of the "Ontario Depart-
ment of Agriculture, entitled, "Tomatoes," by
A. G. Turney. Most of the commercial seed used in Canada is imported from the United States.
With regard to individuals selecting their own seed, Mr. Turney says: own seed is perhahs questionable. A. W. Living-
stone and W. J. Green are decidedly against this practice, their chief reason being that, while th grower may
professional seed-grower, yet the amount of see which he uses is so small that the expense he
would incur in producing it himself would be much greater seed from reputed seed firms ver votwith standing this opinion, I believe that more of the seed used in this country should be grown here,
and that a standard and well-carried-out system of straight seed selection among farmers is highly desirable, and would materially increase the aver-
age yield and profit. The seed selection which is at present carried on 0 some extent is, with very
few exceptions, far from what it should be. Some few growers will drive up to the canning factory and select for seed purposes individual tomatoes
from the crates standing on the platform, without ever seeing the plants they were grown on
Others will select the smonthest, most uniform and best ripened fruits in their fields, without re gard to the plants they grow on. Some go
step further and take the plant, its vitalits, tion. But not one grower have I met who has
reserved a piece oi hreeding and attompted to condnct rigid, st raight lost track of the next vear. While considerath
improvement in the sield, uniformity of size and looked forward to from proper selection. yet the
greatest return which we may look for is a de-

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## Cutworms.

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method of $($
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at the samp place the seed in a towel and press take often made to wait until the ground is hard stir them up occasionally until they are thor- mined by the conditions, as there can be no fixed
oughly dried. In putting them away, see that rule. i cultivate part of mine with the hoe at oughly arien a safe putace from mice. Label the least once a aceek, and every time the potatoes seed plainly, recording the day of the month and the seed from each plant entirely separate. following spring, the poung plants raisel from the seed thus saved should be set out on a well-pr
each plant separate and to set it in separat
each plamt separate and to set it in separat
plant from which the come with the originat
in view. Select that block in which all the
whants come nearest to the desired type, and
Whech show the least variation. From that bloch
the best plants are selected, discarding for further
seiection purposes all the other plants in the
whole breeding patch. Such a course of solection
should not be hard to carry out, and, if judicious-
F. and carefully done, should in from three to
five years result in strains of seed greatly supe-
rior and better adapted to one's own conditions
than any which it is possible to purchace
rior and better adapted to one's own conditions
than any which it is possible to purchase. The
seed from the discarded plants maty be used for
the main crop, as
How to Gipow Good Strawlberries.
traves and any stray weeds cut olf. These I rake $\square$ake
editor gave some good atdvice on the subject. Dut do know that, since adopting the practice, which
perhaps a little more from one who has had con- I learned from a friend who is an adept at straw-
siderable experience in growing this crop would
In preparing for a strawberry patch, try to
arrange to have them on nice, loamy ground, as
free from weeds as possible. A plot on which
for the frequent cultivating required to raise
good crop of potatoes will have worked the
in growing a good crop of strawberries. It shoult
in growing a good crop of strawberries. It should
have heen top-Iressed heavily with good stable
manure in the fall for hest results, but if this has
not already been done, do it now, and disk it
well into the ground, then harrow well. You
too much, and no crop gives better returns for
the amount of labor spent on it
the amount of labor spent on it.
Giet good strong plants for the first setting.
and get them as near hand as possible. Plants
well. I tried getting them from a distance twice
planted them under ideal conditions, and lost the
most of them. I finally pot them from a near-
have more than I nee.t. Aftere I I had thornughly
pulerized the soil, I took stakes and placed them
about three and a half feet apart, leaving
-nough room hand a half feen the rows for the cultivator
$\qquad$
$\qquad$
a marble over the fields where injury is beginnin
to appear, and about the bases of the plants se out. Apply late in the day, so as to place the poime when the cutworms are active. Apply a sea ond time, ${ }^{4}$ necessar
When cutworms occur in unusual abundance which happens locally, and sometimes generally in some seasons, they exhaust their food supply,
and are driven to migrate to other fields. This they do; literally in armies, assuming what called the army-worm habit. At such times it is necessary to treat them as we do army worms While the methods which have been advised are valuable in such cases, these remedies may be too
slow to destroy all the cutworms, and we, therefore, have to emply other methods. These in clude trenching, ditching, the plowing of deep fur rows in advance of the travelling cutworms to trap them, $\begin{aligned} & \text { through the furrows. If the trenches can be fille }\end{aligned}$ with water, the addition of a small quantity of kerosene, so as to form a thin scum on the sur-
face, will prove fatal. In extreme cases, barrier face, will prove fatal. In extreme cases, barriers
of fence-boards are erected, and the tops smeared with tar or other sticky substances to stop the cutworms as they attempy to crawl over
are advisable, as also fall plowing and of crops are advisable, ans cutwo fall plow where disking Many cutworms can be destroyed where it is pos-
sible to overflow the fields. This is particularly applicable where irrigation is practiced.

## 1 A Potato Growing Contest.

A scheme to promote the interest of farm boy their vocation has been inaugurated in Carle on County, through the gener R . Wregating $\$ 55$, for a potato-growing contest entitors to be farm boys between the ages mend 18 years. The hoys must perate age tenth-acre potato plot, do all the work in connec ion therewith themselves, keep a detailed, acc rate account of all cost, and a record of dates f planting, and other work in connection with the plot. One bushel of the potatoes, properly
labelled, and representing average quality, moothness and size, is to be exhibited at the ounty fall fair, and the score awarded by a judge prizes, along with the report of the inspector, a
certified report of yield, and the written report of mple, which might be followed up on a large mple, which might be followed up on a large
scale by Agricultural Societies and by wealthy persons desiring to further the cause of agriculture. The class of crop worked with makes very rops leaves ample room for good work in every
ocality. Besides giving the boys an interest in the particular crop worked with, the system would instil in them a love for their work, and would
also be an opportune beginning in the keeping of also be an opportune begmning in the keeping of on the average farm. Agricultural Societies the

## THE FARM BULLETIN

Apriculture at the Universities.
In reference to a published report that the Universities of Toronto, McMaster and Queen's Cure, the heads of these three institutions, replygh to an inquiry from "The Farmer's Advo posed departure, give the following particulars : TORONTO UNIVERSITY
It is correct that the University of Toronto is hout to establish a degree of Bachelor of Science articularly in order to supply for the High chools of the Province teachers who will be able give instruction both in the scientific subjects nd in agriculture. It is felt by the Department
of Education that more must be done for agriculure in the schools, and we are co-operating with the Department of Agriculture in instituting this iegree, in order to provide, if possible, a supply
if properly-eguipped teachers for this purpose. of properly-equipped teachers for this purpose. the Iniversity of Toronto, and the subjects cov-
The will be those of the sciences in the honor will be those of the sciences in the honor s, and the other subpects required for the
in those two years. The third and fourth
the students will spemil at Guelph, where in those two years.
the students will spenl at Guelph, where
chief attention will be devoted to agriculchief attention will be devoted to agricul-
subjects and applied sciences. They will
Then
these subjects will he conductiod by the University, standard, and the years will be our University Iniversity and the degree will be conferred by the hope that this move will do somathingear. W for what seems to be a great want at present in the Province. ROBT. A. FALCONER. We are taking this action the request the Provincial Department of Education, and the course is intended for specialist teachers in our secondary schools, who shall have the double qualification of a Specialist in Science and Agri-
culture. The first two years will be Queen's University, the next two at the Ontario Agricultural College at Guelph, and it is expected that those taking it will acquire such academic to give instruction in High Schools and Continuation Schools that will be of special value to those


Lulu Keys.
Folstein cow; born February, 1908 . Milk record, 19,250 Ibs. in a
senior two-year-old, consigned by
E.. . Mallory

## o Belleville Spring Sale.

## $\qquad$



A large number of farmers are buying Western oats for seed. Judging from past experience and will be heavy loss and disappointment from this practice. Even at the best, these oats do not do so well in Ontario as home-grown seed. I tried hem one year, and found that they shelled badly t the top, not ripening evenly on the straw. But there is a far more important reason than year have been frosted, and frosted oats are no good for seed. Frozen wheat may grow and produce some kind of a crop, but not so with oats. remember, one year, out West, sowing some and nice, just like many of the Western oats we are now getting, but hardly one of them grew. East, and many farmers are attracted by their fine appearance, but,
if sown, the farmer
may not only lose the
price of his seeds, but, after
two or three
weiting
weeks two or three weeks,
will have to prepare his land again and
sow other oats, too sow other oats, too
late for best results. Anyone who thinks Anyone who sowing these Western oats, or any
others, for that matothers, for that mat
ter, should make a simple test for germination. T a ke a small box, fill it an
inch or two deep with sand or loam, moist en it, and place in here a hundréd repre-
sentative grgins . Cover with earth. keep moist, and in a
week's time examine to see what percent-
age has germinated. This simple test will probably convince dollars' worth of time
and seed. T. F. H. and seed.
Bruce Co.,

The Belleville Holstein Sale. The annual consignment sale of Holstein-Fries4 th , under the auspices of the Belleville District Holstein Breeders' Club, was perhaps the most decided success of any sale of the breed ever held
in Canada. The animals, contributed by twenty in Canada. The animals, contributed by twee and breeders, were a superior oftering, of fine type and
breeding, and brought out in excellent condition. The sale attracted a very large attendance from long distances. The bidding was brisk, and the prices obtained should be considered good bargains. The highest price realized was $\$ 1,500$, for
the charming four-year-old cow, Lulu Keyes, No. the charming four-year-old cow, Lulu Keyes, No.
93 in the catalogue, with a record of 19,250 pounds milk in one year as a senior two-year old, consigned by E. B. Mallory, Frankford, Ont., and purchased by D. B. Tracey, of Cobourg, Ont. The
tou price for a. bull was $\$ 700$, for the richly-bred, seven-year-old Pontiac Hermes, No. 104 in catalogue, consigned by G. A. Brethen, Norwood, Ont., and purchased jointly by A. D. Foster,
Bloomfield, and E. B. Mallory, Frankford, Ont. The catalugue was capably prepared, the sale adThe catalugue was capably prepared, the sale adthe selling efficiently conducted by the notable auctioneer, Col. Kelly, of Syracuse, N. Y. For-
lowing is a list of the sales of $\$ 100$ and upward lowing is a list of the sales
Lulu Keyes, No. 10353, 4 yrs., born 1908; I. B. Tracey, Cobourg …................ $\$ 1,500$ 520 Hearl Pietertje Queen 2nd's May; G. H. ${ }_{245}$ Starlight Plus Posch, 1911; J. C. Drew- 125 ery, Cowley, Alberta ....................... 125 Gally Keyes, 1910; Wm. Payne, Port 145 Hengerveld Echo De Kol 2nd, 1910; W. R. 155 Shield, Mt. P'leasant
Bonny Belle Deene, 1909; Bellevill L. E. Lane Bridal Rose Mercena, 1910 ; G. F. Murton, Portsmouth $\ldots \ldots, \ldots, 1910 ;$ H. Smith.
Mecinthilde Calamity, Winnipeg, Man.
Mercena Hengervels Meria, 1910 ; G. F
most anxious to assist far as posibe in tending the benefits of literary and scientific education to the great farming class of our communment on the part of the Department of Education would prove to be only the beginning of an extensive development in this direction. We expect at the opening of the next session. McMASTER.
We are thinking of recommending to our Senat the establishment of a course for the degree
B. Sc. (Agr.). If the Senate should decide do so, this course will demand two years of gener-
al Science and Arts work at MCMaster, and two years of practical work at the O. A. C., together and History will be under our examination. The Superintendent of Education would grant special ist standing to those graduating in this course tions in our High Schools and Collegiate Insti tutes. The matter will be decided the first week
in May.

The Crop Reporting Board of the Bureau of The Crop Reporting Board of the Bureau of
Statistics, United States Department of Agriculture, estimates, condition of winter wheat on April 1st was 80.6 per cent. of a normal, as against 83.3 on Apri average condition for the past ten years on April 1st. There was a decline in condition from De-
cember 1st, 1911, to April, 1912, of 6.0 points as compared with an average decline in the pas average condition of rye on April 1st was 87.9 per cent, of a normal, against 89.3 on April 1st
1911 ; 92.3 on April 1st, 1910, and 89.8 the aver

Dr. Robt. McGill, Professor of Economics in It 1)alhousie University, has been appointed chair recent session of Parliament. The other members of the Commes Grain Inspector, and C. C. Cassels.

Laches
ane ................ hess Burkeyje Hengerveld, 1909 ; R. M Rosie Vivelet 3rd, 1907; H. Smith. Irene Lassie, 1907; N. H. Fellows, Fellows Eglinton ... ... Bibby Keyes, 1906 ; Edward Nelson, Woole Mary Keyes Hengerveld, 1908; H. Smith. more … ... ... ... ; ...... 1sabella De Kol, 1909; H. Smith
Pontiac View, 1907 ; R. M. Holtby
Rhoda Butter Girl, 1909; H. Smith........ May Countess Blo
burne, Rossmore
Clintonia Hartog De Kol 3rd, 1906 ; A. I
Foster, Bloomfield Foster, Bloonfield
Dolly Inka De Kol, 1901 ; Jos. Kilgour
Flora Verbelle, 1910; J. J. Wilmot, Eric Flora Verbelle, $1910 ;$ J. J. Wilmot, Eric.
Pearl Pietertje Caroline ; G. F. Murton.. Daisy Pietertje Korndyke, 1909; Archibal Parks Napane Queen Artis Korndyke, 1910; H. Smith....
Sadie Korndyke Rooker, 1906; Jos. Kilgour Sadie Korndyke Rooker, 1906; Jos. Kilgour
Susan Mechthilde, 1908; Lewis Little, Duchess Johanna Äggie, 1909; J. J. Wilmot Trene Maid De Kol, 1904 ; H. Smith...... Molly Keyes, 1906; S. Wallbridge, BelleRosie Pietertje De Kol, 1901; Jos. Kilgour De Dikkert Cornucopia, 1907 ; H. Smith.
Jesse Inka De Kol Princess ; W. H. Col ton, Culborne ... ............................. Quidee Plus Burke, 1911; J. C. Drewery..
Korndyke Queen Sadie, 1911; Ed. Nelson. Korndyke Queen Sadie, 1911 ; Ed. Nelson.
Rosa Omega, 1901; H. Smith ............... Sylvia Trenton of Glensprings, 1909; G. F. Murton
Pauline Agness
auline Agness De Kol Pietertje, 1910 ; G. Sunnyvale Queen, 1909; J. A. Caskey, MaMolly Keyes 3rd, 1910 ; H. S. Logan, New Westminster, B.
Dennison, Napanee
De.................... B. Orange Wayne Spafford, 1910 ; W. E. Redman, Kinsale Velstra Mollie, 1909; W. N. Cranston, Bay Centre

THE FARMER'S ADVOCATE.

135 Mollie Keyes Countess, 1906 ; H. Smith
140 Ruby Beauty, 1907; Joseph Kilgour......
175 Duchess Smith ... ...
230 Lady Princess Mercena, 1907; H. Smith
265 Ruby Doralice Posch, 310 , Jos. Kilgour
$310 \begin{aligned} & \text { Butter Boy IIeng. Girl; D. B. Tracey } \\ & \text { I'ontiac Bos, } 1910 \text {; H. Smith }\end{aligned}$
J. M. De Kiol, 1905 ; Joseph Kilgour.

Delta Bella De Kol; J.J. Wilmot
Queen Triumph, 1907 ; H. Smith ............
Una Verbelle ; Andrew Little, Trenton. Una Verbelle ; Andrew Little, Trenton...
Lilly Butter Girl, 1911; J. C. Drewery.. Luby Butter Girl, Keves, 1909; H. S. Logan Queen Pietertje, 1909; John H. Scott, $\left.\begin{array}{l}\text { Ha velock ....... } \\ \text { Queen Hengerveld, } 1910 ;\end{array}\right]$ H. S. Logan...................... Jennie Rooker's Princess, 1910; H. Smith Lou Ditlon Netherland, 1910; C. W Thompson, Stirling … ........................
235
 Selma De Kol Posch, 1911; G. F. M
Ethel Dixon, 1906 ; J. B. Dennison Saddie Queen, $1902 ;$ H. Smith ................
Quidee De Kol 2nd, 1905 ; Jos. Fitzpat rick, Holloway ... .........................
 princess Beta of Harlaam, 1907; Josep
Kraggour ....... 1907; Spelfarden, Ketcheson 30 Maud Burkeyje ; H. S. Logan

Maud Burkeyje; H. S. Logan
Lady Abbekerk Korndyke, 1911; H. S. Logan ... ....................................... Hillcrest Princess D De Kol Mutual Pauline, 1909; H. S. Logan
Hillcrest Butter Girl Jessie, 1909; H. S. Anna Belle Maric, 1908 ; Jos. Kilgour. Anna Belle Maric, 1908; Jos. Kilgour.....
Jessie 2nd's Inka Wayne; H. S. Togan...
 Messie Corby, $1910 ;$ S. M. Reid, Odessa.
Grace Joice Burke De Kol, 1910 ; J. C
145
180
carol De Kol pionertie Pet: H. S. Iogan
$\begin{array}{llll} & 160 \\ & 140\end{array}$

Ontario Agricultural Legislation and Appropriations.

The importance of the daltural possibilities has been realized and dormitory and dining-room have long labore recognized more fully this year than ever before, | not by the Government only, but by the people |
| :--- |
| themselves. The very large demands for litera | themselves. The very large demands for litera-

ture, and especially for that class dealing with intensive farming, is a fair indication of the trend of the public's attitude toward the work of de-
velopment. velopment. The increased numbers attending
meetings and demonstrations of various kinds encourage greatly those having the work in charge. Several new bulletins have been issued in con-
junction with some reprints, and more are in the printer's hands. The great demand for imormation re and is
overloading our coolonization Department, because
it already haf a busy season ahead inf endeavorit already harl a busy season ahead in endeavor-
ing to supply farm laborers. Investors are very lands. Fivery indication is pointing toward great developinent,
Increased Increased grants have heen made to carry on
the various lines of work, and are summed up as follows : $1911 \quad 1912$.


 $\begin{array}{llll}\text { Farmers' Institutes } & 39,583.00 & 40,709.00 \\ \text { Dairy Branch } & 3,58.00 & 62,750.00 & 63,950.00 \\ \text { Fruit Branch } & \text {.............. } & 50,020.00 & 54,250.00\end{array}$
 $\begin{array}{lrr}\text { Farm Forestry } \quad 10.000 .00 & 10,000.0 \mathrm{~m} \\ \text { Inmicration } & 100,600.00 & 107.708\end{array}$
 Miscellaneous.. 30.250 .0 m . 32.750 .on
$\qquad$ ontario agriciptrallat puring recent years the wurnher of stuldew

very inconvenient, old, and too near the engine-authorities to build a separate building, wit
every convenience, large enough to accommodatfiall to to the witcence, and will
table was inadequate for conceded that the dairyferiments which should be handled with a greatdeal of care. It was diflicult to apply modern$\$ 15,000$ will build a stable equal to everywirement, and it will also he one for which theWhthorities at a public institution need not ofRoom for experimental work upon field andmust be bourht enough is absolutely necessary
ainere herds of cattle, flocks of sheep, and
memtal industry received also demanded experi
Hllow for the expansion of the ve acquious departcint. One humdred acres, known as the Hamilmintuly.
will wimin thild $\$ 10,100$ for an electricalcultu salare incrouses have The fund formerly voted and used as an insur
and extension work found at the ofme of the annual exhibitions wa
foumd very small, especially durine a term such as
$1: 11$. In additional vote of $\$ 10,000$ has been
and aditional rote of $\$ 10,000$eld competitions necessitates further grants forJudging and other work, An additional $\$ 2,500$expenses of judging. Judres and $\$ 8,000$ foragricultural exhibitions where required, and $\$ 3,500$additional has been supplied for wages and exThe Dominion (iovernment, through the SeeTivision, has granted $\$ 10,000$ for the encourage-ment of a seed-improvement campaign; thissome other source. Competitions will be arranged by the various agricultural societies; thesecoinnete. The expenses and wages of the judgein the competitions, provided for by the judgesion grant, will be sustained by the provincialLarger prizes will be offered for grain and seeds
the Canadian National, Guelph and Ottawa
都

APRII. 18, $1: 12$ THE FARMER'S ADVOCATE
addition to the grant of $\$ 9,500$ to the fairs, an
adititional sum of $\$ 5,000$ has been added. The stockmen are using every opportinity to further sales of pure-bred stock by the voting of $\$ 800$, to
be used for advertising and other necessary ex-
The passing of the Act respecting the Enrollment and Inspection of Stallions is a very great
stride toward the gradual elimination of the inferior stallions now in use in some parts of the rovince. Last year it was not allowed to reach
the House, but passed this year without any the House, but passed this Year without any will be ormed, consisting of five men. The Board will issue certificates upon the receipt of
sufficient evidence of breeding and ownership, and apon the paymen be appointed by the Minister to ent personsections, under the direction of the
make inspect
Board; three such inspectors will form a comBoard; three such inspectors will form a com-
mittee. No person will be allowed to stand, travel or offer for use any stallion unless and until the name, description and pedigree of such
stallion has been enrolled and a certificate granted. These certificates must be renewed antwo years, except those which had reached the age of eight years at the time of the first inspec-
tion. The fees accompanying this Act are-For nrollment, $\$ 2.00 ;$ for inspection, $\$ 5.00 ;$ for re-
newal of enrollment, $\$ 1.00 ;$ for transfer cert1 cate, $\$ 1.00$. It will come into force on August FARMER'S INSTITUTES. The Short course work is rapidly becom-
ing heavier yeurly, due principally to the acing heavier yearly, due principally to the ac-
tivity of the District Representatives. The Wo100 in the Province $u p$ to date. Far are becoming very popular. An additional $\$ 1,300$ was voted for increased expenses and to aid in
running the " Better-farming Special." ${ }^{\text {The C. }}$ C. R. furnished a train, and the Agricultural De-
partment, through the Institute Branch and partment, through the Institute Branch and
O. A. College furnished the material for exhibition and arranced for speakers. The territory
from Windsor to Montreal, and from Toronto to DAIRY
The granting of $\$ 63,950$ toward dairy instrucevery year, with moderate increases, is an indication of the extent and importance of the industry.
Greater care is being exercised in the appointment of competent men as inspectors for cheese and of competent men as inspectors for cheese and
butter factories. Fxperimental work is being
ciarried on. and exhihits, especially of an educaarried on, and exhibits, especially of an educaFruIt branch. Ontario's fruit industry is growing by leaps
and bounds. 'The fruit-growers are entitled to and bounds. The fruit-growers are entitied to will be used for instruction and inspection connected with proper spraying of orchards. In-
struction is given in pruning wherever necessary. Packing demonstrations are becoming very poputration orchards are now being managed in man Huron, Grey, Simcoe, Dufferin, York, Ontario, Vorthumberland, Durham, Hastings, Dundas and
Glengarry will all have orchards under super The November Apple Show will be enlarged, al-
Thit or which prizes will be arranged. More space for the regular exhibits will be oflered.
The Jordan Harbor Farm will be made more amplete by a fruit-storage building costing
$\$ 3,000$. The present harn will be completed. The apiary inspection work will be extended
inder similar methods of those of last year. The eed for close inspection is great, and $\$ 1,000$ DISTRICT REPRESENTATIVES Ifp to date, there are twenty-one District Repario. An increased grant of $\$ 8,000$, making a total of $\$ 36,500$, has been made for defraying expenses only; their salaries are provided by the
Fiducation Department. These men aid greatly in the rxtension work carried on by and work
Branch, and also encage in the Institute work
There will be new offices opened up during this here will be new offices opened up during this Since last June, the offices at ade perma-
and Fort William have been made
and the office at New Liskeard opened. The and ins nan 2 wis, with an increnses or $\$ 100$ per sear. to a -

Usual by the bonus and assisted-passage schemes. with the present time.
With the development of New Ontario, the
Demonstration Farm at Monteith requires more attention. A new barn has been erected. Further the direction of C. A. Galbraith, the District Representative at New Liskeard. The grant of
$\$ 11,000$ will cover building, clearing, wages, ecquipment and miscellaneous expenses.

ACT TO AID PUBLICITY
The great possibilities of Ontario have become apparent to many, and the bringing of this fact
before intending investors and present quires a local publicity campaign in nearly all cases. So far this work has been carried on by local grants entirely, but in the future, every the department one dollar for every two they expend, with a limit of $\$ 1,000$ for total expendi-
ture. A vote of $\$ 3,000$ has been made, which will ture. A vote of $\$ 3,000$ has been made, which will
give aid to nine counties, if the maximum is
ACT RESPECTING FEDERAL GRANTS FOR AGRICULTURAL PURPOSES.
The Jominion Government contention held by some that they should each year vote a subsidy to the Provincial Departyear granted $\$ 500,000$ for this purpose, of which $\$ 175,733.32$ comes to Ontario. This money will between according to the agreement entered upon
betwincial and Dominion Departments. As yet, no hard-and-fast rules have been
made, and no doubt the fund will be divided made, and 110 doubt the fond the various departments, District Representatives and the Ontario Agricultural College. Nothing definite can be said, except that the money
Several Acts have been amended during the session. The protection of sheep against dogs bees during the period of full bloom of the fruit trees is also provided for. it is useless, harmful vanced and the bees can work; spraying should be done earlier and later. The amending of the Noxious Weeds Act and the Fruit Pest Act will aid in keeping weeds and diseases in check, by $\$ 1,000$ has been voted for the enforcement of the Fruit Pests Act. Special investigation will be made by Mr. Caesar upon Yellows and Little
Yeach. Under his direction, further work will be carried on concerning the railroad worm and apple maggot.
The granting of $\$ 5,000,000$ for the development of New Ontario will have a very great ear-
ing upon Ontario's acriculture. Part of this money will be used for agricultural purposes. New tario; proper marketing of surplus crops from the Clay Belt will no doubt be arranged. Many
new districts will he opened for settlement. The new districts will he opened for settlement. The
possibilities of that country will become known possibilities of that
not in other countries only, but in our own Prov-
ince as well.

The Ontario Teachers' Convention The annual meeting of the Ontario AssoTrustees was held this year, as usual, in Toronto, during Easter week. The attendance was up the second day the issue of over 700 membership tickets. The general meetings are held in the evenings ; this year they were not well attended The real work of the convention is carried on during the day sessions, in the seventeen sections into which the Association is divided. itles making un the year's collective programme, ne mas as bearing directly on rural and arricultural education. The words " curriculum," "' examinations," " regulations," appear over and over again-indeed, the
sirathcona Trust is more in evidence than agricuiture. Speaking on that topic, Principal Aulen, oi Upper Canada College, combated the Principal IIuton, of University College, who had charke of the "Strathcona Trust" in the Public peaceinl time, there is the more need to have mimitars trainms in our schools. He pleaded
getting the teachers to cudorse physical trammg;
they went so far as to accept military exercises, out they balked against approving of ritle-shoot Bi-lingualiam fipures in several sections. The Public and High School Trustees' Department went so far as to appoint a committee to promote the amendment of the Act to make it impossible to have any other language than English domilant in any Ontario school

The insufficiency and inefficiency of the teachersupply was debated in several rooms. Inspector Froats had calculated that fourteen hundred teachers are now needed to catch up with pletion from the marrying of lady teachers and other causes. To meet this need, only about 800 trained recruits are forthcoming. Principal Mclntyre, Winnipeg testified that the continuous single Normal School term had not proved a success in Manitoba. They are now. except for graduates, dividing the term into two periods-a short one, of about the duration of our former Moael school term, with an intervening year of actual leaching, and then a longer perio at the Normal School, of about six months. The proposise in several departments
The stay-in-the-Province plodge, which it is proposed to require, was scored rather hardly. Inspector Campbell was applauded for saying that, instead of blaming teachers for going to the
Canadian West, he would bid them God-speed Canada needs teachers with Ontario ideals to take charge of the youth of the unformed West
In the trustees' section, Inspector Putman, of the City of Ottawa, grappled with what was called the rural-schooi-teacher problem. He argued Dr. Ryerson's day, is totally unsuited to this 20th century. Capable young men and women
are not now, as they were formerly, attracted to are not now, as they were Hormerly, atracted
the teaching profession. He instanced a townthe teaching profession. that at one time within the past two years had not a single teacher holding a
certificate of even the lowest grade. The remedy certificate of even the lowest grade. Build fine, big
he proposed is Consolidation. Bin he proposed is schools, he said, in central locations, with teacher's residence attached, and even dormitories for
the children who have to come long distances. Mr. the children who have to come long distances. Mr
McDougall, of North Bay Normal School, supported the plea for Consolidated Schools. He re lated the good results in one of the new townships, where three teams-one of them belonging
to the school board-were employed to haul the to the school board-were empen asked about the
children back and forth. Whe winter roads, he replied, that near North Bay the deep snow is rolleci, and becomes hard enough th arry a wagon. tario, the preference for it would soon become general. cidental to manual training and vocational educathe present there are only 33 schools in the Provnce with teachers in agriculture, a circumstance probably due to the fact that neither the people
nor the teachers understand the regulations on nor the teachers understand the regulat charts, outlining lessons on a particular grain, and he encrtains hope of much benefit from the distircu ar No. 13. A New Zealand teacher, R. H. Ferguson, stated that agriculture and dairying are optional subjects of instruction in the schools of
that island. The teachers teaching these subjects

A Whiff of Country Life.

## I have much pleasure in enclosing herewith

 bank cheque for $\$ 4.50$. This will cover my ar-rears and subscription for current year towards 'The Farmer's Advocate. I appreciate very much your generosity in for-
warding the paper so regularly. It is the most warding the paper so regularly. It is the most welcomed paper we have, and
wholesome country life to our home every week wholesome country life to our home every week
that helps us to forget the cares and worries of artificial town life. hy keeping us in touch with I I sincerely believe that if more townspeople read your paper the whole world would benefit. In
many of our towns and cities there are virgin fields for an active sulbscription campaign.
Missisquoi Co., Que.

The tide of interest must be rising. The April 4th number of " The Farmer's Advocate
contained specific answers to one hundred and five questions, asked by subscribers, while many other

| THE CANADIAN BANK OF COMMERCE Capiliu ESTABLISHED 186 <br>  $\qquad$ |
| :---: |

## MARKETS

Toponto
 the two yards for the past week show
decrease of decrease of 86 carloads, 1,544 cattle, 285
hogs, 1,445 shep, and 143 calves; but with the corresponding week of 1911 . Deliveries of all kinds of live stock, e,
cepting veal calves, last week, were ex cepting veal calves, last week, were ex-
ceedingly light. Trade, on that account
was active at both markets during the week. Prices were firm, and for some
classes of cattle, 10c. to 15 c . higher
coner especially the medium to good butcher
cattle. The export and heavy butchers
cattle did not exceed the prices paid for Exporters.-The top price realized for one extra choice load of exporters wa
$\$ 7.40$, the same as was paid for the be load the week previous, and was bough
by the Harris Abattoir Company had an order for some 600 cattle for the the
Italian Government. Mr. Howar buyer for the Swift Company, of Chi
cago, bought 36 steers for the Liverpoo market, weighing 1,200 lbs. each, at an average of $\$ 6.95$. Butchers'.-Heavy steers during the
week were bought for local killing at $\$$ co $\$ 7.25$; steers, 1,000 to 1,100 lbs each, at $\$ \$ .7$, $\$ 5.97$ good, at $\$ 6.40$ to
$\$ 6.65 ;$ medium, $\$ 5.90$ to $\$ .20 ;$ common
of extra weight ans to $\$ 6$, and a few
on bulls, $\$ 4$ to $\$ 5.75$
Milkers and Springers.-There
moderate supply of milkers moderate supply of milkers and spri
which sold at about steady prices ing from $\$ 40$ to $\$ 65$ each. One sold 11 milkers and springers on Tuesday, at an average of $\$ 62$ each, and
there was one cow of extra quality sold




Agriculture in Ontapio Schools. THE EDUCATION DEPARTMENT'S
PLAAS For ITS INRODUCCIN.
Teachers, trustees and others concerned
in the advancement of our schools, will In the advancement of our schools, will
be interested in Circulars 13, 13a and be interested in Circulars 13, 13a and
13b just issuud by the Ontario Depart-
ment of Education. in them the inten13b, just isuuad by the Otario Depart-
ment of Education th them the inten-
tions and plans of the Department ren ment ond pacans of the Department re-
tions and plate
gurding the teaching of agriculture are gurding the teaching of agriculture are
lully sat torth) it is hoprout every
body in Ontario who is interesteded in any body in ontario who thinterested in any
way in the work of the scoolos may be
comene acuainted with the scheme and that
a stronu public sentiment may tavor the 6
 The Roundabout Club Literary Society Study No. IV
$\qquad$ appeared in our issue of February 22nd.
We were much pleased with the general Cone of the work upon these selections. keen sense of the beauty, the music, the "poetry" of the finer among these frag-
ments. The stanzas from Browning (III.) proved to be favorites, also the
fnspiring challenge from Dante Gabriel Rossetti (No. IX.). We were glad to see that one at least was impressed with the charm of that beautiful little poem
beginning. "Blows the wind to-day" beginning, the point of which may be bet-
(No. V.),
ter understood when it is known that Robert Louis Stevenson wrote the stan-
zas when ill in Hawaii, in reply to a
dedication of a book to him by a fellow zas when ill in Hawaii, in reply to a
dedication of a book to him by a fellow
writer amid the "hills of home," scotA number those No. VIl., possibly be
cause of previous familiarity with this
poem, but we were surprised to find that poem, but we were surpher fine tragment
all passed over the other
from Wordsworth, No. II. Perhaps without realizing why they did
so, several tollowed, at least in part, the
plan which we had in mind when getting the selections, viz., that they be taken
in pairs for contrast, I. and, III., III. and
IV ViI The bit of doggerel (No. VIII.) was,
without exception, either passed over
with the contempt that it deserved, or
 enough purpose of seeing if any of our
press paten would be lacing enough in
students stoetic perception to consider it serious-
po. It was a great satisfaction to find
1.
that they all rang true, that not a sin-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

With but three movements of his pencil
he has depicted a whole scene; yet what one of us does not see that sea in every
detail, with the effect of the moon on the night land forms, each expressed in terms of our own personality? Further note that these lines give the decisive enfect of a viewpoint: hence, an observer. Note
also where that observer is, and how
fast he travels, the impression of the tast he travels, the impression of the
speed being gathered from the swittychanged viewpoint. One moment and he sees the long, black land-an effect only
to be obtained from a distance and the
next he quenches

## sand." Questions at once arise : Why this switt

 Questions at once arise: Why this swittmotion? Will it be continued in the
succeeding stanza? What other means are used to entphasize the swift move-
nent besides the general impressionistic
$\qquad$
evident that the sharp, quick march o waves that leap In fiery ringlets from
their sleep," produces the effect of rapid therir sleep, produces the effect of rapid
motion in contrast with the meditative movement of the first lines. This slow
swing is also noticeable toward the last Of the verse, and the last throb of moveis shown by the quick run of the words: "And quench its speed"; the sudden break the break in the metre after " speed.' In the words "pushing" and "slushy" beach is imitated. boat on the sandy
The metre of the second stanza give the same effect of swift motion, but here the motion becomes subsidiary to the
more evident eagerness: "Then a mile wanderer, measuring the distance just as ured it.
But what is the special purpose of this But what is the special purpose of this
swift movement? What did the poet
seek to expreses by seek to express by those bord sea and long, black land seen by this half-moon? What is the motive of sketch? Here is the sea-line, the sky-
line, the moon-path, the night-enshrouded form, the eager tap, the lighted candle,
the meeting half, seen-hals suggested
through the glimmer? Ts not the whole in leisure, the mind becomes photographic
so with purpose it becomes impressionistic and the more tense and appealing as the great outlines slip by Applying
this iden. we may assume that in the tensity of purpose.
It is true that the time is night and the blurring the natural consequence.
That, however, seerts no sufficient exment, for if it were, why did Browning
$\qquad$
$\qquad$
$\qquad$
$\qquad$

that, though each of us is stirred by the effect, the means, the art is veiled. These two verses are also excellent ex Here in Blaconng s dramatic gonius monologue in words, we have a dramatio monologue in events, and the whole of fect of the poem is that of a swift, gure
and telling sketch, perfect because it says so little and suggests so much,
It was, also, charactaristic of the
cheering, human outlook of Browning' cheering, human outlook of Browning's at night, with the day's work homind at night, with the day's work behind
him, and sent him forth in the morning on a given mission. He might have pic out to the grey sea, "unto the furthest flood-brim," but what would that have filled to us? What sense of unfulwould such instead we see the long black land what does that signily? What cheering element at once arises from the poet's characterization to challenge our senses?
So does Browning ever give expression to hoes Browning ever give expression
to bun heartful outlook. His was no hall-lit genius which sent one with naked soul through the staring night;
his, the spirit of the morning departure his, the spirit of the morning departure
toward "the need of a world of men." Contrast with what might be termed the incomplete completeness of this vivid tonesketch, the complete incompletenees
of: "And though thy soul sail leaguee and leagues beyond, still leagues beyond those leagues there is more sea." In the former the force of emotion 19 de
picted: in the latter, the power of theught, in the lattor, the power of the first is effective be
thoule cause it adequatoly embodies the emo-
tion, so is the latter effective becaise tion, so is the latter effective because it appeal of the first is through simplicity of physical background; the appeal of
the latter through simplicity of intellec If Selection IX. be i thought erreculve ly expressed, wherein does that effective Oftentimes if the thought be simple the
explanation may, without beclouding the thought, tend to bulkiness; but the mor subtle the thought the more simple must
the explanation be. Hore, therefore, we
trave a most subtle thought expressed in terms intelligible to a young mind.
Therein is its charm, its effectiveness and But not only must the explanation be
simple, but its simplicity must depend evither upon its brevity and the use of
simple words, or $r_{i}$ more generally, upon some outstanding, dominating similarity ly which it is presented. Here the
figure of the boundless ocean beautifully expresses the boundless extent of human
progress under God's plan. Though only progress under figure is presented, yet it throws into the limelight the thought which it the figure of the boundless com is gisiven and the application to the thought omitmade all the clearer.
The selection is a rebuke for the com placency of the sell-satisfied soul-com
acency arising from lack of perspective Macency arising from lack of perspective,
and this mind-perspective is supplied by When we turn to the section of "I Memoriam," where Tennyson rays: "My
own dim life should teach me this, That life shall live for evermore," we see that the poet begins by acknowledging the
boundlessness of life and sollioquizes a. 0 what would be, if, leagues beyond eagues, there were not sen; then (in

 love of a fiery and passionate depth,
buoyant and dashing as hoo poom itself.
tit is the love oo a a desert-dweller, one of
 watched over by brylliant stars. So the
selection expreseses something of the wild,
ardent nature of the lover in its dashing ardent nature of the lover in its dashing
rhythm.
Contrast this with selection three. Here the narrower range $o$ vis-
tion and the more even, uneventul Ille is is
oxpresed by the closer observation of every. object and of the appeatrane o
each. Thu the first lover's life it each. Thus the frst lover's life is is
shown to be more slow and methodioal
in contrast with the fire and dash of the one following.
But to
return
But to return to number four. How
suggestive is the line, "On a stallion suggestive in the line, "O a a stallion
shon with fre"
switt impetuous better course be deorcribed his his shod with fires How better could his
gwift inpetuous course be described than
saving that the stallion is shod with hre?

 ting and picturuesque ending oro the poom.
But, still, how natural it is for this

"Under thy window 1 stand,
And the midnight hears my cry."

How well it picturas the utter soltude
and dieen quiet? and deep quiet? In number three there
it no such solitud and no suce devo-
tion. The first lover is of of the ordinary
 lquiet river. His. eagerness in shown not not
by the dashing rhythm of the verse but by the mention of the various objects in
rapid succeasion, as though he were hurrapin succession, as anough he were hur-
rivin rapiliy onwards Ye he tod
rences his goal where his dear ond
waits waits. Thus the two pooms are the
same, in that they picture deep and true
love.
 mot of the wide, wild moore, chiefly, but of the deep longing of a human heart
for its native land. Wild and stern is the moorland, haunted by the cry or the
peowees, and, , ike to cry of the peewees
to the cry of the author, heat
 seems filled with the sighing of triving
wind and tho swish of rain. Its music
is filled with the lonesome longings of home-weary heart. The frst two lines form a splendid
word-pitciure of the dreary day. bloak shine. The third line adds to the droary yet grand picture, the tombs of martyrs
and the desolate cries of the birds
and the These frrst four lines form the kray
bekground for tho wild picture
details are filled in, in the next tour lines as by the brush of a master art atist
But the picture is on at all gray. for the
wide moor is "winered."
still the the next line adds yet another note ot lone
liness to the scene in in mentionng the The eighth line fits the picture perfectly The winds over the vast mo rriand are grandeur, "austere and pure,""
As the author thinks of this picture an
overpowering desire seizes him to see it
again, and his wish is pictured powerful-
ly as he cries in bitter longing
" Be it granted me to behold you again
in dying, me
Ifills of home !"
Just one glimpse of it all and then obli-
vion, with no more heart-hunger, is all
he desires.
This poem presents an almost direct
contrast to the one following it. Warmth
and color seem to characterize the latter as
austerity the former. There is all the
difierence in the world in the description
of the rain and wind. To imagine the
rain sobbing and the wind as blowing
free does not fill your mind with a senge
of dreariness as the description in the
former does.
But while one writer pictures the wide
bere moorland and the other a land of
beautiful trees, yet they are one in their
intense longing for their own country.
I like selection number five best.
Grey Co., Ont.

Hope's Quiet Hour
He Is Not Dead


The Cleansing Touch of
Chpist.
There came a leper and worshipped
Him, saying, Lord, if Thou witt, Thou
canst make me clean. And Jesus, put


The man was fllled with horror at his
own loathsome condition. He longed to
cure his awful disease, there was no hope
in any direction but one. He knew of
epers who had been cured, and he knew
Who had healed them. So he knelt at
touching appeal. that strong act of taith
which could not tait to reach the heart
of Him Who was eager to save. The
leper did not ask to be healed. He sim-
ply showed his desperate need of help,
declaring his belief in the power of the
Healer and the
Healer-and the miracle was wrought.
But that is an old story, is it eve
repeated to-day? 1 heard someone say
yesterday : "Christianity is the most
yesterday: "Christianity is the most
successlul thing in the world.." He said
that, knowing perfectly well how the out-
that, knowing perfectly well how the out-
side world delight in ridiculing those
who call themselves Christinns. We are
who call themselves Christians. We ar
accused of being worldyy and selfish, o,
praying on Sunday, and tryint to
praying on Sunday, and trying to drive
hard bargains on Monday, of being self
satisfied hypocrites, etc., etc. Well. sup
posing some of these shafts of scorn hit
us in a tender spot, does thut pore
us in a tender spot, does that porove the
failure of Christ and of Christianity ?
Why, it only proves that we are failing
to follow in the steps of Christ, and th
practice the Christianity we profess. The
amazing thing is, that., in spite of the
weakness and sin of Christians, the Name
of Christ still towers infinitely above all
still tremendously allive and prowing.
atter two thousand years. It semed so
weak and unimportaint as compared with
the mighty bmpire
that Roman Empire of has crumblet awat away,
while the buildings where chirist is wor-
while the buildings where Christ is wor
shippled are countless, and the
multitude uf those calline atter 11 ,
multitudd of those calline after llis Num
is increasing by the million.

$\qquad$ drink is quite different from ordinary drunkenness, and
to be in declared by doctors
to awful disease. Her sister was helpless in its grasp, and she herself-though for a long time she taught in Sunday-school,
led Band of ITope meetings, and even led Band of Hope meetings, and even
dared to come (without any faith in
(fod) to the Holy Communion-sank lower and lower under the slavery of drink.
One day she was persuaded to hear a
sermon by Hugh Price Hughes, and it
$\qquad$
$\qquad$ mania for dong time with the terrible
One day she camse to the lady who her. was no use trying any longer. She had prayed and fought, and the skies seemed
brazen, and God gave no answer. She was in utter despair. Her friend said,
tenderly, but sadly: ..Well, dear, I can do no more for you. You know all I can't think why you don't respond.
There is your Saviour, standing quite pleading hands to you, longing to save you-and you turn away and won't be-
lieve Him. If you turn away from Him Then the poor, despairing woman, had ness. She was absolutely certain that
the Suviour Who could help her was feet her burden of sorrow an at colt herself forgiven, and almost fainted
tuder the sudden sense of relief. lourteen years she still had to fight the
desire for drink-but she found atrength for the fight. drew it day by day and
$\qquad$

```
M blithe and buoyant gladness,
and communicates itself in all the
l
merry; not only happy, but joyful
is dearly loved by the little childre
cure, but they cannot deny the fact 
the cure. That soul was not on
happiness, despairing helplessness
hope-giving helpfulness. And there
thousands of such cures; the touch
Christ can and does heal our souls wh
Hear another story. A woman hal
ben down in the depths of sin and
all gone from her face, the faith from
her eyes, the kindness and purity from,
not with penitence, but with anger at
belonging to the West London Mission
gave her a white flower, with a smile
l
between its beauty and the darkness
Mer own state. She said to herself con-
flower.," For days, weeks, and months,
flower was like the whisper of conscience
invisibly as fragrance, the whiteness of
the flower passed into her soul, and
gently, tenderly, and sweetly turned it
sion for help and guidance, and is now
working hard as a servant, while her face
reveals the beauty of her love for God
and holiness. .
in the City Missions, and there are far
grander proofs of the power of Christ to 
childhood in sweetness and beauty.
a leper rejoices when his disease is cured,
man to rejoice if he has never been dis-
allowed to help in the restoration of a
thing to help an innocent soul to walk
The touch of Christ has power to cleanse
年, has power to keep clean anyone who
faith. He can not in loving,obedient
into gladness, but He can give lifelor
happiness to His real followers, Ca
any other leader do this? Heaven
                                    d He is here.
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## The Beaver Circle.

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OUR SENIOR BEAVERS
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Something to Do on a Rainy Day
girls know that our wild birds are among
the best friends a farmer has. Field
sparrows, chickadees, bluebirds. nut-
hatcheng hatches, warblers, waxwings, thistle away from morning until night, eating up flies and bugs that would injure crops
and gardens and fruit trees, and picking into cocoons, killing trees, and picking pillars that are in there in pupa forn warting for the time to "come out,"
perhaps as calbage-butterflies, or some thing equally harmful. What if Mr
Robin or (herry-bird chould eat some of your cherries! You would
let him have all he wanted is you could only realize how much good he does all
the rest of the year only last a couple of weeks. the bird work they do; indeed they not only work their merry songs. What a lonely, silent there no birds world it would be were Catbirds, no peewees, no dear little war

Cunde !-You who live about Georgian
Hay should know the song well, and you The birds have a hard time coming back to us every spring. Hany of them
on the long, long jounney from the
south, fly against wires in the night and South, fly against wires in the night and
are killed; many are beaten by tempest against light-houses and tall buildings
and fall to fly no more; others are cauu by hungry animals and snakes; and
others still are shot by cruel men and or feathers may adorn the hats of
thoughtless, if not really cruel women Don't you think we ought to be very
kind to those of the little creatures who at last do manage to reach us after so And, you know, you can encourage
birds to come in greater numbers and live right about your homes, if you will boxes and nail them about to trees and
posts, making sure that there are no convenient branches below on which maraud -
ing cats may find a foothold. The boxes may be made of bits of hol low log, or of old weather-beaten boards,
and should be snugly roofed to keep ou
the rin.
Even tin cans may be used the rain. Even tin cans may be used if
the edges of the opening through which the bird is to go are turned back with
pliers so that there are no sharp points possible, place the boxes where they
no be shaded during the hottest part of
the day. Have the openings facing the the day. Have the openings facing the
south, and see that they are of different
sizes, about the size of silver quarter sizes, about the size of a silver quarter
of a dollar for wrens, from an inch and
a quarter to an inch and a hall in diameter for other birds. Do not hav the holes too large, or crows and jays
may get in. Mr. Forbush, in his book on "Useful Birds and Their Protection," says that the best way to keep out box
English sparrow is to suspend the bor by a wire or rope. This sparrow, h
says, will not nest in such a home. says, wittle rest upon which the bird can stand before hopping into its nest should
be placed below the openings of all boxes intended for swallows and bluebirds. Just one point more. Every fall when the birds have left the boxes, clean them
out thoroughly. This will make them out much more healthful for the birds when

Senior Beavers' Letter Dear Puck and Beavers,-Spring is here again. I wonder how many Beavers go
fishing? I caught 330 last year; well, fishing? I caught 330 last year; well,
not myself; my brother was mostly with ne. We had three hooks, and we fished in turn. of course, none were whates I have a baby brother who is about
months old. He is beginning to talk quite a bit now. My father, who is
away a great deal of the time (he travels away a great deal of the time (he travels
for the immigration business), comes for the immigration busiess, , sport
home on Sundays. It is great sper
watching the baby and father. Father will take him up on his foot, cross one The baby is all right then, but when h stops he gets cross and begins to cry.
Next year I hope to go to an Agricul. Next year I hope to go to an Agricul-
-al College, and after I am through Sre, II don't know whether to go to
al Puck? Please advise me.
Times are rather slow now skating and Times are rather slow now skating and
hockey are gone. I took my skates off my hockey boots, and am going to wear
them to play baseball in; they are very We had a fine cow die from blood poi-
son yesterday. Father was away, and bon yesterday. Father was awned it. I
"y young neighbor and I skinner
was my little sister's, but she seemed to ke it very easy. girls of my own ak
Wishing boys and gen P. S. - We have started weighing our
hilk, and have found it very interesting |The Guelph College is a very good one
St. Clair. Boys go there from all ove the world. of course, your parents must
have the most to say in deciding where Dear Puck and Beavers,--Thouch I live



## friend brought me from Scotland, and my letter is getting long, I guess prized it very much, but it disappeared close. Good-bye for this time. 1 prized it very much, but it disappeared mehow. Come agai, Jennie, and tel more about those interesting places.-

 charles kingsley Few have been able to give their readors more pleasure than Chas. Kingsley.This author has a "nice" style, which ne cannot help feeling in his numerous
It has been a great pleasure works. It has been a great pleasure to a lot of pathos, mixed with, here and here, just a spice of humor, in tai In my opinion, any book which can be
ead without moving the reader, without giving pleasure, etc., to the reader, that
is, if the person is of a literary disposiWhat could be more pathetic tha What could be more pathetic thall
Amyas' despairing cry, "Oh God 11 am Amyas desparing cry ind blind !" It is infinitely sad to
, hind ! hear this cry of a great, proud, strong
man, crippled in his bloom; for he was just in the bloom of his life when he was Is there not something touching about he way poor Ayacanora tried to
an engish girl whire be
the honest Jack Tars tried to control
heir mirth?
their mirth?
Besides all this, "Westward Ho !" gives ne a good idea of what customs were in enjoy reading the Beaver Circle. tays of Good Queen Bess, of Spanish live between Dobbinton and Wiliscroft ustoms, especially of the animosity be-
ween those two races, Saxon and ween those two races, Saxon and
Spaniard.

Mr. Lillico, "Ne, have a piano, and I
take music lessons, and like it. I have take music lessons, and like it. I have
three brothers; the two oldest take music
lessons also. My pets are a cat and lessons also. My pets are a cat and
dog; their names are Polly and Collie. Collie is very cutc. We have a team of ponies. I think my letter is getting Dobbinton, $\begin{gathered}\text { (Age } \\ \text { Ont. }\end{gathered}$ M. Powell

## The Ingle Nook.

$\qquad$



Muscle-forming Foods
Spring is here, fairly warm weather and plenty of hard work. It may not
now be necessary to use so much fat in
the deily the daily fare-suet puddings and suet
dumplings (for every dumplings (for every good housewifo
knows that suet is one of the best heatproducers, and so especially advisable in
cold weather),-but the necessity exists, even more than during the winter, for plenty of good muscle-forming food. In
the wear and tear of hard daily work, especially manual work, the muscles are
continually eplaced, if health and strength are to be maintained.
In order, then, that this may take place, muscle-forming foods must be tain nitrogen. Lenn meat is one of the fore serve it once a day. White of egg,
consisting of almost pure albumen, is also nitrogenous food, hence you will make no mistake if you serve plenty of egke,
boiled, poached, in puddings, eto. When boiled, poached, in puddings, etc. When
boiling eggs, see to it that the white is not cooked to a hard, leathery mass, a
rocess which renders it practically use less. Indeed, the word ". boiling"" should never be used in reference to eggs. They
should not be "boiled," but simply cooked in boiling - hot water at the back of the range, or even on the damper,-
ten minutes will be a suffcient length of time if the vessel is covered. Another good method is to put the eggs in cold water, and remove them the very second
it comes to abil. Other nitrogenous foods are bread,
cheese, milk, peas, beans,-this should be remembered by every housewife.
It is not, of course, necessary to serve It is not, of course, necessary to serve many of these foods at one meal, -on the
contrary, doing so might set up serious digestive disturbances,--the idea is that
they should be served in judicious prothey should be served in Judicious pro-
portion to make a well-balanced diet. It portion to make a well-balanced diot. about one part of nitrogenous food to four of starch and one of fat, thin
amount varying a litte, of course, so amount varying a littife, of course, ao
cording to the occupation of the in-
dividual. cording
didual.
It woul
It would be a mistake, then, to eat
meat, beans, cheese and nuts at one meat, beans, cheese and nuts at one
mean, and it would be no wonder what-
ever if anyone who did ever it anyone who did so should suffer
from such surfelt of concentrated food. from such surfeit of concentrated food.
As a rule, the following should be an As a rule, the following should be an
advisable ration for the majority of fairly hard-working folk
Breakfast.-A dish of
Breakfast.-A dish of well-cooked cereal with milk or cream, an egg or a couple
of slices of well-cooked bacon, toast. little jam or marmalade, tea or coflee. Some, of course, could eat two eggs in-
stead of one with no unpleasant results, while many would prefer hot water with milk, or postum instead of tea or collee. Unquestionably, tea and coffee, especially
it poorly made, are injurious to a great many people. raw fruit. toast and egg, muffins with marmalade, cocoa or chocolate to help
to supply the nitrogenous part of the $\underset{\substack{\text { meal. } \\ \text { Dinner.-A } \\ \text { a little clear soup to start the }}}{ }$ digestive juices flowing, one kind of meat potatoes, one other vegetable or a salad,
a plece of pie with bottom crust only, or a dish of pudding, bread. Supper-A bean or pea puree (sort of
thick soup), or a milk soup with bisthick soup), or a milk soup with bis-
cuits or croutons (sippets of buttered

"No Longer Do I Fear Style Changes"
-So says Mrs. Emily Johnson, of Montreal, whose letter is as follows :
"There was a time when 1 used to be afraid to pay the price of good materials for a dress-so often was mine the experience of having clothes go out of style, to discard them.
"But what a difference now that 1 know what is possible with Diamond Dyes. No longer do I fear style changes. Not only do Diamond Dyes keep my wardrobe right up to the hour-by giving me con stantly new colorings-but by sligha aler styles are al ways mine.
"And so with my household furnishings Always a re the colorings of my rugs, and curtains, and portieres through the occasional use Diamond Dyes.
It would be well-nigh impossible to tel all over the country which have had much happiness brought them in the slape of

## Diamond Dyes

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Our experience of over thirty years has proven
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fabric

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yon you that famous book of helps. the Diamond Dye
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The Wells \& Richardson Co., Limited 200 Mountain Street, Montreal, Quebec





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A DAY STARTED
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0 day with clear head and steady nerves - a day full of snap and life. Do you USE
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in Quaker Oats is its flavor. In no other oatmeal has it ever been equalled. Note why.

By 62 siftings we pick the rich, plump grains. We get but o pounds of Quaker Oats from a bushel.
Those grains have the flavor, and our process retains it.
Every morning millions enj
Evts them only one-half cent per dish. And it Why does anybody serve to their any lesser grade of oatmeal?

## QualkerOats

$\left.\begin{array}{c}\text { Family size, with a piece of } \\ \text { china beautifully decorated, 25c. }\end{array}\right\} \begin{gathered}\text { Except } \\ \text { Extreme }\end{gathered}$
The Quaker Oats Company
PETERBOROUGH, ONT

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frances ridley havergal.
Dear Junia,-Will you please print
your paper any information you can of Frances Ridley Havergal and her work
as a hymn-writer? We have been getas a hyor paper for about twenty years,
ting your
and have nearly all the copies saved. and have nearly all the copies saved.
We would not like to be without "The
Farmer's Advocate." Thanking you in advance, I remain.
Huron Co., Ont.
Frances Ridley Havergal was born at Frances Ridley Havergal was born
Astley, Worcestershire, Eng., on Dec. 14 ,
1836, the daughter of the Rev. W. H. Astey, the daughter of the Rev. W. H.
1836, the
Havergal. When she was five years old Havergal. When she was five years old
the family moved to the rectory of St. the family moved to the rectory of st.
Nicholas, Worcester. Afterwards, she lived for a time at Leamington, and at
Caswall Bay, Swansea, where she died Caswall Bay, Swansea, where she died
June 3rd, 1879. She was a woman of remarkable scholastic acquirements,
speak several modern languages, and was speak mean scholar in Greek and Hebrew.
no mer
on It is as a hymn-writer, however, that
she has been remembered, many of her
she beautiful hymns and religious writings
having been collected into books. '"The Ministry of Song" (1869), "Twelve Sac-
red Songs for Little Singers" (1870), red Songs ior Let (1874), "Loyal R
"Under the Surface"
sponses" (1878), "Life Mosaic" (1879) sponses
"Life
(1883). Chords"' (1880), "Lite Echoes"
Among the best-known among (1883). Among the best-known am for
her hyns are, "I Gave My Life for Thee," "Take My Lifo and Let It Be,
The "Tell it Out Among the Heathens.
"Who's on the Lord's Side?" "Who's on the Lord's
Her father was also a hymn-writer Her father was also a hymn-wrter-
As a musician of some talent, he composed the tunes to many of his daughter's
as well as his own poetical productions. as well as his own poetical productions. fruit pudding. I find this a good pudding recipe using up scraps of cooked rut.
Two cups of flour, 2 teaspoons baking Two cups of flour, 2 teaspoons baking
powder, a pinch of salt, water enough to powder, a pincott dough. Drop a table-
make a very sot
spoonful of dough in a cup, then some
spore fruit (about a tablespoonful), then more
dough to make cup hall full. Steam dough half an hour. This makes about
about haps
five cups. five caps.
Bruce. Co., Ont. "sounds" like a good
This certainly pudding, Seamstress.
transfer gralning. Dear Junia, -Could you give me uny
information about graining woodwork
gith with transfer paper. I don't mean the
old comb and rubber method, but a woods on it. Do you know how it is
applied? Would be glad of information and directions. 1 thought directions
would have gone with the baper, but applied at store and found they didn't.
$\qquad$
$\qquad$
 the north side, are caladiums, tall
manettia vine, meadow rue, godetia.

## note to "Norfolk reader.'

 I am sorry that just at present I haveno pattern for novelty braid yokes, except the one given in this department
before Christmas (Dec. 14th issue). We before Christmas (Dec. 14th issue). We
shall be pleased to hear about your draining shelf.-.J.

I have a good recipe for deatroying bedbugs. Wash and clean the bedsteads thoroughly, then get ten-cents' worth of and mix well with a small stick (it is hard to mix), then put in every crevice in the cracks in the walls, or any plact hey might be. I moved into a house
after we were there three days I found out it was full of bedbugs. In a short time after, a neighbor called on me and
asked how I liked living there. I said I did not like it at all on account of the beddugs. She told me what to do.
did what she said, and I never have been
troubled since. that troubled since; that is $\begin{gathered}\text { is years ago. } \\ \text { A } \\ \text { SUBSCRIBFR. }\end{gathered}$

QUERIES-JOHNNY CAKE-FUDGE. Dear Junia,--At last I have summoned arms of the Ingle Nook for advice. How should a girl of sixteen wear her
hair, which is neither wavy nor fuffy? What length should shor fluffy? Lastly -if "Junin" will please publish in our corner a recipe that is tried. tested, and proven excellent, of chocolate
fudge? If Junia's patience is not already tried to the utmost, I shall give a good recipe
for what is called Johnny cake. One egg, one cup of sugar, one tear
spoonful of salt, one cup of buttermilk two small teaspoonfuls of soda, one cup sweet cream, one cup flour, and one and
a half cups of corn meal. This is exDundas Co.., Ont.
wear her that a girl of sixteen should upon her size. Also she must choose
the If way that is most becoming to her
If shall and very girlish for he age, she may twist it at the ears into a
loose roll, and tie it hack with ribbon bow, letting the ends hang. If she is tall and mature-looking, she may
twist it at the ears in the same way and arrange the back hair either way the little series of three coils low at the
back of the head, which is affected by young girls just at present. her shoe-tops, wear her skirts about to Chocolate Fudge.-Put into a pan 1 lb .
brown sugar, 1 cup milk, 1 ounce butter, ander
2 ounces prated unsweetened chocolate
Boill 15 minutes, flavor with vanilla, and

Try it once, and see how efficient it is-goods from factory to consumer with never a hitch and everything paid. your name on a post card bill bring you this new catalogue

## mor fupronem Robert TORONTO.

Have just published a new Spring $\&$, Summer Catalogue, now universally regarded as The Authoritative Style-Book for Canadian Men and Women.

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on your land if you set about to do this in an intelligent manner. There are three points to which you must give careful and particular attention: Proper Cultivation, Crop Rotation, and the Proper Use of ,the Right Kind of Fertilizers. To secure best results you must attend to all three of these. No matter how well your land is cultivated, or your crops regulated, unless you use in the proper way the right kind of fertilizers, you cannot secure the best results.

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are the right kind of fertilizers. Made from anịmal products, they return to the land the plant food which has been taken from it. They are organic fertilizers and for this reason act much more naturally than inorganic or chemical fertilizers. This difference in action can be very well compared to the difference between the action of a food and a stimulant on a human being.

Harab Fertllizers are Foods and will have no injurious after effects. They will not sour your land.

If you have tried other brands and are dissatisfied you will do well to give our goods a trial. They bring results. If you have never tried fertilizers you will be very wise to start now by trying Harab Fertilizers. Write us for full particulars. Our goods are put up as a finely ground powder in ${ }^{125} 5 \mathrm{lb}$. sacks. Can be handled without any trouble in an ordinary seed drill, or can be scattered by hand. We guarantee our goods to contain the plant foods represented, not only with you, but with the Government.

If we have no agent near you we want one. Write us for terms, prices, commission, etc

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Holstein
MOUNT DAIRY, Box 53 , milton ont
where on the inside of wash-dresses.
They will fade as the dress fades (if it does so) and will be useful for patching 1ater. young plants. If any of the plants started in the house or hotbed have grown to be ready for transplanting, transplant them to the cold frame to grow on until time to plant them out in
the open ground.
to boil a cracked egG.
Add a teaspoonful of salt to the water
and the white will be less likely to come and the white will be less likely to co
out.
open pantry shelves If pantry shelves have no doors, put
up spring-roller shades, such as are used windows, as a substitut

11 the st enters of Easter lilies the lilies will.

Seasonable Cookery.
Veal Cutlets :-Trim the cutlets and put he scraps in a pan with a tablespoon of butter. Lay the cutlets in and brown quickly. Add 2 or 3 thin slices of
bacon, a sliced onion, and 6 carrots cut bacon, a sliced onion, and 6 carrots cut
in bits; add 1 pint water, cover, and in bits; add 1 pint water, cover, and
simmer gently for 2 hours. Season, simmer gently for 2 hours. Season,
thicken slightly with a little butter and thicken slightly with a little butter and
flour rubbed together, and dish the cutlets on a hot platter with the carrots as a border. Carrot Timbales:--1'arboil 4 carrots with $\frac{1}{3}$ cup sweet cream and $\dot{4}$ eggs well beaten, and season to taste. Put the mixture into cups, stand the cups in a fran of hot water and bake. Veal Steaks:--Take $1 \frac{1}{4}$ lbs. veal steak. pound with a small hammer, place in a pan with a lump of butter, sprinkle with a little flour, salt and pepper and
bake in a hot oven \& hour. Leeft-over Fish:-Heat the fish from
which the Which the
While it is heating prepare the follow ing dressing: : To 1 I lo. fish allow 1by
cups canned tomato cups canned tomato, 1 level teaspoon
salt, yolk of 1 egg, pepper to season.
Stew the tomato, btrain and add salt and pepper. Deat the egg yolk in 2
tablespoons. cold water. When the mato is hot set the pan in a mild heat
and add the yolk, stirring woll boil the sauce after the egg is added
Put the fish on a hot platter, turn the Orange Salad: :- Peel the oranges and
cut into dice: place on lettuce leaves and serve with rich salad dressing.
Minute (Ginger Cake:-Set Minute Ginger Cake :-Set a cup into
a cake bowl and put into the cup 5
tablespoons hoiling tablespoons boiling water, 1 larget table ${ }^{5}$
spoon butter, 1 of ginger, a dash of
cinmamon, + tensmen on. of soda. Fill the cup with real
New Orleans molasses, and stir until the mowne foams over. Turn all into
the bow a.dd flour to make a a stiff
thater. Bake in a moderate oven
"The Farmer's Advocate" Fashions.



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## BASIC SLAG <br> (Thomas Phosphate Powder)

Sydney Works now in full Best Fertilizer for renovating operation old pastures without re-seeding

Farmers from Old Country know all about BASIC SLAG. Others who have no experience of its merits are invited to write for descriptive pamphlet giving full par ticulars. Until arrangements are made for its sale in every district, farmers who can take delivery in minimum carloads of twenty tons and pay cash with order can be supplied direct from works.
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PERKINS WOOD WHEEL
the best wheel for the farmer to buy. There are
a great many reasons $\mathbf{u}$ hy the wood wheel is better than the steel wheel. The Perkins io.ft. job that money can buy :
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sion as there is to steel wheels to crack gal-
vanizing and cause it to rust, the ends of
fans to drop off, also rivets to pull out and
fans to drop off, also rivets to phe to go to pieces.
cause the wheel
cecause wood will never rot in the air, even though it never has a drop of paint; look at
the siding on your barn that has stood from the siding oars and shows no rot. Because it has three bearings on the Wind mill Shaft and cannot sag to its tower, a can take up the wear at a very low cost, which can be done in half an hour's time.
Because it pumps a stroke of water every -Because it pumps a stroke of water every
time the wheel turns over, therefore reducing the wear on its journals to about one
fourth, and will run in a very light breeze. Because thousands of them are running
the age of 40 years still doing good work. the age of 40 years stire honest, because we build the steel wheel and build them asagood as Our opinion is asked every day which is th
; it is always the old reliabl
best Mill to buy; it is always the old reliable
wood wheel.

[^0]News of the Week. |Dalicious Home-Made Bread


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 C XPerienoed farm hands wantrdow Park Farm, Brantord, Ontally Pa Phone or write Employment Supply Com-
pany, 33 John South, Hamilton. $\mathrm{F}^{\text {ARM hands and hotel help awaiting situa- }}$ V BCotVer island, british colum-






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 G. G. MONCRIEFF. PETROLIA, ONT Early Pol at oes ${ }^{- \text {Rig }}$ Enonev. Extra Early P. N. Hi iinit. st. ' homas
"The Manor" Scotch Shorthorns
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APRIL 18, 1912
THE F'ARMER'S ADVOCATE.

The Scarlet Pimpernel.
a story of adventure. By Baroness Orczy.
(Serial rights secured by ". The Farmer's By permission of G. P. Putnam's Sons.
(Continued Mrom last week.) Chapter xvil. Farewell. When Marguerite reached her room she
found her maid terribly anxious abount her. "Your ladyship will be so tired," said he por woman, whose own eyes were
half closed with sleep.
. It it is past five
 red presently," said Marguerite, kindly; het you are very tired now, so go ,
hed at once. Ill get into bed alone."
Rut - But, my lady
ovow don't took or her mistress' korgeous ball-dress
and wrapped her up in a soft billowy
and gown. Dour ladyship wish for anything
else ot" she asked, when that was done. else ?" she asked, when that was done.
No. nothing more. Put out the lights
Noner
 "Good-night, L.ouise."
when the maid was gone, Marguerite drew aside the curtains and threw open
the windows.
The garden and the river beyond were fooded with rosy 1 light. Far
wway to the east, the rays of the rising WWay to the east. the rays of the rising
sun had changed the rose into vivid gottd
 where she had stoon a fow the terrace
rying vainly to win hack a mants ago Irying vainly to win hack a monts love
which once haon been so wholly hers.
It wns strange that troubles, all her anhiety through all her

 (purned her, who had resisted her tender-
ms. remained ocld to her appeals, and "ss. remained cold to her appeals, , and
Wal not responded to the glow of passion
hich had caused her to

 tundings and of loneliness, of misunderthat deep down in her heart she had had alwnys vaguely felt that his foolish inan-
ities, his empty laugh, his ance were nothing but a mask: that the
real man, stronna massionate there stiil-the man she had lived, whose
then ind Intensity had tascinated her, whose per-
sonality attracted her, since she always there was a certnin somenthing which he
kept hidden from all the world, and most

## ©

 mivzale. woman in Europe," reaily love a fool? vear ago when she married him? Was
it love she felt for him now that she he would not become her slave, her passMarguerite herself could not have told
that. Not at this moment at anyrate; Werlaps her pride had sealed her mind
Nainst a better understanding of her
Bun heart. But this slie did knowhat she meant to capture that obstinate


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## Cream Separators

have increased more than the sales of any other cream separator. There must be some reason, or reasons for this great ahowing These are some of the reasons:
empire Separators skim to a trace. There ispt a machine made their equal for close skimming under difficult farm conditons.
They are easy to clean. They don't spatter oil. And they have anti-splash steel supply s.
o nearly frictionless they almost run themselves. Children delight in operating them, and can easily do so with perfect

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Acetylene, there seems little reason for sticking to the old oil lamps gladly give it, without any obligation on ycetylene lighting. We'll
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THE HARRIS ABATTOIR COMPANY, LIMITEID toronto, canada
beSt results are obtained from advocate advertisements
mind Absorbed in them, she had al-
lowed time tosip by herhaps, tired outt
vith long excitement.

she had actulty | with long excitement. she had actually |
| :--- |
| closed her eyes and sank into o trubbed | sleep, wherein quickly fleting dreams

seemed but the continuation of her anxious thoughts-when suddenly she was
roused, from dream or meditation, by roused, from dream or meditation, by
the noise of footsteps outside her door. Nervously she jumpod up and istened.
the rouse itselt was an still as overer the Yootstapes had retreated. Through her
witheopen windows the brililinut rays or wide open windows tho brilinat rays of
the morring sun wers fooding ter room the morning sun were fooding her room;
with light. She looked up at the clock; it was hall-past six-too early for
of the household to be already astir. She certainly must have dropped aaleep,
quite unconsciously. footsteps, also of hushed, subdued voices
had awakened her-what could they be? Gently, on tip-toe, she crossed the room
and opened the door to listen : not a sound-that peculiar, stillness of the early at its heaviest. But the noise had made her nervous, and when, suddenly, at her
feet, on the very doorstep, she saw some feet, on the very doorstep, she saw some-
thing white lying there-a letter evident-ly-she hardly dared touch it. It seemed
so ghostlike. It certainly was not therg when she came upstairs; had Louise spook at play, or whowing heme taintalizing letters where noe existed?
At last she stooped to pick it up, and amazed, puzzled beyond measure, she ssaw
that the letter was addressed to herself that the letter was addressed to herself
in her husband's large, businesslike-looking hand. What could he have to say to her, in the middle of the night, which could not be put off until the morning?
She tore open the envelope and read :me to leave for the circumstance forces mo I beg your ladyship's pardon it not aeg your myself of the honour or bidding
not
you good-bye. My business may keep me employed for about a week, so I Issali
not have the privilege of being present at your adyship's water-party on Wednes
day. I remain your ladyship's most
humble and most obedient servant PERCY RLAKENEY."
Marguerite must sudenly have been imbued with her husband's slowness of in-
tellect, for she had perforce to read the felfect, for she had perforce to read the
fow simple lines over and over again, be-
fore she could fully grasp their meaning She stood on the landing, turning over
and over in her hand this curt and mys-
terion terious epistle, her mind a blank, her
nerves strained with agitation and a pre-
sentiment she could not very well have explained.
Sir Percy owned considerable property in the North, certa inly, and he had ofte
before gone there alone and stayed a week at a time, but it seemed so very
strange that circumstances should have
arisen between five and six o'clock in the morning that compend six oo'clock in the
mim to start in
this extreme hurry.
Vainly she trie. Vainly she tried to shake off an unac-
customed feeling of nervousness: she was
trembling from head unconquerable desire seized her to see her her
husband again, at once, if only he had Forgeating started.
very light that she was only
velad in a morning wran and that her hair lay loosely about he he
shoulders, she flew down the stairs, right
through the hall towards the front door


## This Washer

 Must Pay for
## Itself



tigl, Machne an 1 thought about the horse, and
about the man who owned It.


 without wearlng or tearlng them, th leot than
hall the tue the tan be wailed by hand or
by any other maobine.
 oblne ever Invented can do that. Without wean
lige out the elothes.






 Doesn't it prove that the "1900
Washer mast bo all that it eay it is?



 Address
1900 We persen

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| :---: | :---: |
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| poprimo me: fo Lem |  |
|  |  |
|  |  |
|  |  |
| Opeee |  |
| Luverool | \%aidew |
|  |  |



## SEED CORN

Buy Yours on the Cob
Space in "The Advocate" is too
expensive to git e yout our ideas
of the diferen vareties but we
would suggest that you send for
 magaine. Secure your seed early and test it for germination.
It will pay you well.
Below find out prics, ex warehouse, Toront.
70 Ibs. to the Dush. of cob corn


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| :---: |
|  |  |
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Barley


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That individually bores more than
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## Spring Issues Her Clarion Call to the Bicyclist

- TOW comes the greatest time of all the year! Now comes the stir in the blood-the thrill of the spring air in the lungs and the vigor-the mighty stimulus that reaches every fibre of our being from the finest exercise the world has ever known-bicycling.

$\longrightarrow$ HOUSANDS will ride again this year who rode last season, and thousands more will ride who have not ridden before in years.

The bicycle is not merely coming back - it is here. Our factory has turned out 100 bicycles a day for weeks. The bicycle business in Canada has trebled in three years. England built more bicycles last year than ever be fore, and in the United States the business has had similar growth, first in the west and now making eastward.

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THE CUSHION FRAME is the greatest invention for the bicyclist's comfort since the pneumatic tire rough roads smooth.
THE HERCULES COASTER BRAKE is the strongest, safest and most positive coaster brake on the mark. back lash than any ther, is halt to one pound lighter than ther is no porger flan the averay plain hub, and has no unsightly side arm. Fitted with this coaster brake the wheel can be quickly and easily removed from and replaced in the frame.
These important improvements can only be secured on the following famous makes, each of which can also be had, if preferred, with the rigid frame as well
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CLEVELAND
BRANTFORD PERFECT"
Now is the time to place your order. Whichever of these, famous icycles interests you, call on the agent and look over the cushio
and rigid frame models. Catalogues supplied either by us

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tick of the does its thou the seoond mile ru and arrives on time.
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acter of the American railtoad acter of the Amercan raniloa
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ESTABLISHED 1856
POLESOF STERLING QUALITY W. C. STERLING \& SON COMPANY ate pote Fim in minise
MONROE, MICHIGAN

QUESTIONS AND ANSWERS Miscellaneous
MARE FAILS TO CONCEIVE
I have an imported Scotch mare five
earrs old which aborted a year ago last
all. Since then she has failed to coneive. Would you advise breeding her
any further, or do you think it impos-Ans.-Feed her well, and breed her
again this summer. There is a chance that she may couceive. The abortion
The a chance
Thould not render her sterile. REGISTRATION OF STALLION. A sold an imported stallion in March,
1906, to B. He was registered in A's name in the Canadian Shire Studbook
in Toronto. When A delivered the stal-
lion to B . in Toronto. When A delivered the stal.
lion to B, A gave the certifcate of reg-
istration to B. B shipped the stallion 1906. A now receives an attorney's let-
ter stating that the horse is registered in A's name in the National Live-stock
Records in Ottawa, and asking A to sign Record in ottawa, and asking A to sign
a transter of ownership. But B sold
Be horse in the West the horse in the West and knows nothing
of the horse or certificite now. I pre-
one sume this stallion has been changing
hands several times since. Is A bound in any way to sign a transter of owner-
ship, as when A delivered said stallion ship, as whien A delivered said stalled
the full contract of sale was fuflild
A's own opinion is that he could not legally sign a transfer of ownership with-
out the certificate to accompany the out the certificate
transfer to Ottawa, as A has no knowltranster to ottawa, as A has no know-
edge whether this is the same stallion or not.
$\begin{aligned} & \text { notario. } \\ & \text { Ans.-No. We L. F. }\end{aligned}$ Would add that we Ans.-No. We would add that we
think A is right in exercising caution in
the matter. the matter. If, as a matter of courtesy,
he should be disposed to comply with the request, he ought only to do so atter
being fully satisfied that it comes from the present actual owner of the animal.
And it ought to be accompanied by proSHEEP WORRIED BY DOGS-

$$
\begin{aligned}
& \text { 1. Sheep were worried by dogs in barn- } \\
& \text { When discovered in the }
\end{aligned}
$$ yard by night. When discovered in the

morning one was almost dead (was immorning one was almost dead (was mor
mediately killed), and nine others more
or less worried, sone quite badly. Municipal Council pays two-thirds value dam-
age done in this way. Is owner of sheep entitled to any compensation except for
the one actually dead as at this time the one actually dead, as at this time
of the year dead lambs may be the re
sult of injuries, even if the sheep should otherwise recover.
2. I bought 100 bushels of oats some
from the burnt time ago which came from the burnt
elevator at Collingwood. They are a
very fine sample, and would, from apvery fine sample, and would, from ap-
pearance, make good seed, as they are apparentry these oats were grown in
sume that the
Western Canada, would it be safe to deWend upon them for seed this year, or
pend
would they require to l, , ${ }^{2}$ ome acclimatized would they require to become acclimatize
before they would give best results? have heard that $\begin{gathered}\text { G. Y. } \\ \text { Ans.-1. In cases where the owners o }\end{gathered}$ the dog or dogs which did the worrying
are not known, the sheep valuator apare not known, the sheep Valuator
pointed by the Township Council must be
called in to investigate the injury within canlled in to investigate the injury within
48 hours after notice thereof is given to him. He reports the extent of injuries
to the Clerk of the municipality, giving the extent of the injury and amount of
damage done. Two-thirds the amount damage done. Two-thirds the amount
of damake done is paid by the municipal-
 age is what the council go ,yy in making ly encouraging the growth of hoot. Pull
the reimpursenuent. Where the owner of the dog is known, damages may be col- ter the coronet every four weeks. For
lected from him. and he must destroy the a blister, take 2 drams each of biniodide dog. In this particular casce, we would of mercury and cantharides, and mix
eepect that the valuator would make al- with 2 ouncess vaseline. Clip the hair
lowance for the damage done the sheep oif two inches high all around the hoof; Wwance for the damage done the sheep on two that ho cannot bite the parts.
 cially those of the bad Western weeds, apply sweet oil. Turn in a box stall
should prove satisfactory for seed. Be now, and oil every day until the scale Tore sowing these, however, we would ad- comes off, when the blister can he again
ise that you make a germination test applied. It is impssible to give him


WEIGHT OF MANGELS bin of sugar mangels 22 feet long, ht feet 6 inches wide, 6 feet 2 inches
high. How many tons are there in this Ans.-The Engineer of the $\begin{gathered}\text { M. B. } \\ \text { Dominion }\end{gathered}$
Sugar Company Sugar
estimating the weight at 37.3 pounds per
cubic cubic loot, calculates that such a bin
would contain about $36 \frac{1}{2}$ tons of sugar
beets beets. No doubt the same bin fulled
with mangels would weigh nearly as A RAILWAY IN DEFAULT. front of my farm to a railroad company in 1910. They have never paid a cent on the land yet. They agreed to put
up a new fence, and to keep it up for
all time. The fence was taken away in all time. The fence was taken away in
that year, and some grading done. My place has been lying open ever since.
Cattle are allowed to run the road, and considerable damage has been done.

1. How long can they hold the without paying for it ?
2. Who is responsible for the damage done ?
Ontario $\quad$ A SUBSCRIBER. Ans. -1 and 2. The company ought not
to be allowed to withhold payment any longer, or to further delay the erection
of the fence. You should instruct solicitor to make a demand upon them
in respect of both matters, and also for damages, and to bring an action, if
necessary, in order to get the whole case MARE RUN DOWN A 13 -year-old inare has worked in the
lumber woods for the past seven months. Slie has been several times sick with
colic or indigestion. She became weal colic or indigestion. She became weak
and emaciated. Veterinary said she was soo weak to get a purgative, and fed her some condition powder. The mare is in
foal, and is due about May 20th. What should I feed her, and what could I safely give as a tonic to build her up?
YOUNG FARMER. work. Give her regular exercise, but do not compel her to draw heavy loads.
Avoid giving purgatives. ately on easily-digested food, and avoid and bran mixed as a grain ration. The bran will serve to regulate her bowels. A small amount of oil cake might be
added, but with great care, as it might added her digestive organs. A good horse tonic is a tablespoonful of the fol-
lowing mixture three times daily, viz.: Equal parts of sulphate of iron, gentian.
cinger, and nux vomica. As a rule, the less medicine administered to an in-foal well-cured clover or alfalfa hay, and as
soon as grass comes get her on pasture. soon as grass comes get her on pasture.
but be careful in changing from the dry
to the green teed not to make it too CONTRACTED FEET.
I have a horse with contracted front
feet. I have not had him long, but know he went wrong last summer. Could you suggest something 1 might put on
to make his feet grow out; also something to help in his shoeing? Would
rubber shoes be advisable? He is seven years old, and a pacer. Anything on the
subject will be greatly appreciated. At present 1 ame using sultpetre and sweer
prent oil, and rubbing it on the coronet and
the frog of the foot. I was given, this the frog of the foot. I was given, this
recipe by a min who said he grew new feet on a teann with quarter cracks in three months.
Ans.-Contraction is the result of dis-Ans--Contraction is the result of dis-
ease of the feet, and is not of ittelle the
cause of lameness. It is probable the animal has navicular disease, and cannot
be cured, but it is likely he can be helped run without shoes on grass during the
coming summer would be a very good
thing



IHE HARMER


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THE FARMER SAID-"No, I'm asing WINDSOR SALI. It makes better butter and I am getting better prices.
certainly does pay me to use Windsor Dairy Salt

THE CASHIER SAID-"I should say it does. Do you mind if 1 et some of my friends in the

THE FARMER SAID-"Go ahead. Tell them all to use WINDSOR get the 'top' price for their get the 'top' price for
butter"

## WINDSOP



[^1]THE FARMER'S ADVOCATE

## CROP FOR PASTURE


 intend to pasture it and then plow for
wheat. It lies beside an eight-acre pas-
ture, which is also to be plowed for
wheat. Would it be better to sow crim-

## "British" Treasure


 Brtush Ireasure, Nisidece is exta heavy tiple plate. Wiil last as long as he ravere Brltus treas. Ifes s.
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brice's new century swede turnip-The beat ehpulae vartoty


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## SAVETHE-HORSE $=$

T COVERS 58 FORMS OF LAMENESS-HLISTRATED
$\mathbf{W}^{\mathbf{E}}$

QUESTIONS AND ANSWERS Miscellaneous.


 building a drive house.
 Nith upsestirs for workshop and storiue

 ane smme

 II. no difficulty in getting out any mat
Fine without disturbing the others.
inery (") allow of driving right through. feel that this is a mistake, but very thely the material is on the ground now,
so 1 will not dwell on the saving that
you might have effiected by using plank The most of the timber will be $8 \times 8$ inches, except the girths $5 \times 5$ inches and
the rafters $2 \times 6$ inches, set on 36 -inch
wint antres, and will be 18 feet 3 inches from
outside edge of plate to ridge of root, ${ }^{\text {st }}$

## Hol pitch would require purlins, but if

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

## CALFMEAL

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use you can put
a SpRAMOTOR a SRRMOTM
to, and will send
you a usffll 8 .
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QUESTIONS AND ANSWERS
Miscellaneous.
pea weevilis-nitro-culture
peas this yeare for the first time. the formalin solution used for smut be
stronf enough to kill them ? 2. How much nitro-culture would it
take to treat 140 chs. alfalfa clover
 Ans.-1. Use carbon bisulphide. Place
the seed in a tight box or arrel. the seed in a tight box or barrel. A
coal-oil barrell is good. It will hold about five bushels. Place three or four
ounces of the carbon bisulphide in a ounces of the carbon bisulphide in a
small pan on top of the peas. Cover the barrel with a cloth or blanket weighted down with a tight cover, and allow
to remanin tor 48 hours. ${ }^{\text {The carbon bi- }}$ sulphide will have evaporated, and the gas being heavier than air. will settle
among the peas and smother the weevils. 2. An ounce does a bushel. Three
ounces would be necessary, ns it is put up in ounce bottles.

ALFALFA AFTER PEAS. I have a 12 -acre field. Last year six
acres were in oats, and I did not get it
plowed last fall. I was thinking of plowed last fall. I was thinking of
putting on some manure and sowing some
Enve Early Britain peas, and soon a they
come of to seed down with allalta,
Would I he reano
 time is best suited to sow the peas ?
case sou do not think this
 The other half of field I intend to geed
down with alfalta with barley this spring. Ans. Whilite you might secure a pretty
good catch of alfalta following a crop ot early peas, yet considioring the expense
oo seeding to alfalla and the considerable interest at stake through risk of failure,
we question the advisability of trying to
wet

 MAIL ROUTE-Potatoes_ 1. We have a stage pass here every
dive nind wo would like to have free mail diclivery To whom would we tave to
wirite to get it, ond how many subscrib-
wit ers How is it that Green Mountain
2. How
potatoes sell higher at the
 Are they a good cropper? Are
they as good ans the Rural New Yorker?
3. Where could I get a book that tells how and when to graft trees? M. W. W.
Ans. L. Those concerned should apply
tor a form of petition to the Post optice tor a form of petition to the Post ofitice
Departument. Mail Contract Branch, ot
tawa, or to the Post tawa, of to the Fost Onice Inspector of
the postal district in which the proposed
rural - celicery route is situated, which petition dellery route is so situated, which
route and signed by treded over the
rose who are will ing to accept rural delivery on the terms
and conditions set by the Department and, when completed, syhuld be e olward
ed to the Post ofice Departuent, or th ed to the Pror of the Division. A copy
the Inspector or
of the regulations governing rural de de livery will be forwarded by the Depart
ment or by the P. O. Inspector on re
 to purchase and erect boxes before auth
orizint the establishment of rural de aivery. The nigh price is ikely communded
2. The
on account of the that that they ad on account of the fact that they ary
shipped in in car lots, thus enabing dealers to get desired quantities of one
variety insuring unitormity.
They ar also good croppers, and a good quality
potallo. In experiunents, they have not

 on gratting treesh and aray
aplulication to the Fruit
Branch, (nntario


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Distributers: James Rae, Medicine Hat; Canada Machinery Agency Mon real; McCusker Imp. Co., Reglina

768
-


QUESTIONS AND ANSWERS. Miscellaneous.

MAKING UP LOST TIME.
Last year I had a man hired for eight
onths at $\$ 25$ per month. He got sick nonths at $\$ 25$ per month. He got sick
not went home for 25 days in July, and
nhen his time was in in Noverber, he
when
$\qquad$ 운 켤 눌 운Ans.-We think that, having regard to stances of the case as stated, it would be prudent to agree to
twenty-five days' work.

USELESS COLT.
I want you to please send me legal ad-
vice about a colt I bought last April. asked the man when I bought it it it it
was all right, and he said it was. was all right, and he said it was. Now
this colt has turned out to be perfectly
useless, and never was any good to me. not think he should allow me somethin
back on the price I paid, which wa back on the price I paid, which wa
$\$ 140$, and I agreed to take $\$ 40$ Bu
Be said I should have come to hin sooner, and would do nothing. I under
stand he had a veterinarian attending
this same colt before I bought. Th
veterinary says she is paralyzed in hind on account of the length of time from when I bought until asked a rebat
I don't want any law in the matter, o
as little as possible. Ontario. RES.
Ans.- Your right of action is not y barred by the statute of limitations; but
the long delay in making complaint, an
other circumstances which you mention are so prejudicial to your chances of suc
cess in an action, that we could not ad JOINT ILL-CLIPPING-LENGTH JOINT ILL-G EVENER.

$$
\begin{aligned}
& \text { 1. In ussing disinfectants on the navel } \\
& \text { of a foal, should there be any injected } \\
& \text { into the navel just after the foal is }
\end{aligned}
$$

$$
\begin{aligned}
& \text { of a foal, should just after the foal is } \\
& \text { into the navel } \\
& \text { dropped? How much should be injected, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { dropped? How much should be injected, } \\
& \text { it any, and how strong should it be the } \\
& \text { Should the navel string be cut? it so, } \\
& \text { now long should it be left? Should it it }
\end{aligned}
$$

$$
\begin{aligned}
& \text { be the ar the th, should it be cut? } \\
& \text { natural leng right to clip a draft mare in } \\
& \text { 2. Is re } \\
& \text { the spring before foaling time, if she has }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 2. Is it right o colip a dratit mare in } \\
& \text { the spring before foaling time, if she has } \\
& \text { to work ? } \\
& \text { 3. As a rule, is there more danger of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 3. As a rule, is there more danger of } \\
& \text { an early colt takine joint ill than the } \\
& \text { later ones? At what time of the year }
\end{aligned}
$$

$$
\begin{aligned}
& \text { do they seem less subject to the disease? } \\
& \text { 4. What is the proper length to have } \\
& \text { the doubletree for a four-horse team on }
\end{aligned}
$$

the doubletree for a four-horse team on
BEGINNER.
a cultivator?
Ans. -1 . It is not mecessary to inject
The antiseptic into the navel, simply a
,1,y it to the navel cord thoroughls, b
inf sure that all raw portions are trea



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size ; a number of them in fo 1 ; matched pairs, the Kind to make you money. They will



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hand a few good
ainners and breceling ot the best hlood in Scotland. Price and terms the best an prin prizeJohn A. Boag \& Son, Bay View Farm, Queensville, Ont


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Live Stock of all Descriptions.
Qumbers of Poring months se shall bo bhipping large
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| :---: |
| teri in | tor sale young bulls and heifers of the highest type

of the breed. Show stock in show condition
 Aberdeen-Angus
ter. Hall, Washington, On

questions and answers Miscellaneous.
purchase of school site. A new school section was foriued.
 contract of buildining. $A$ afterwards wrote
secretary demanding. some unsatisfactory
ind secretary demanding some unsatisfactor
restrictions in deed, and stating he woul
not sign if not adhered to. Schoolhous was completed in September; the acre of
land surveyed; a proper deed drawn lawyer, and payment for lot deposited;
A has been notified several times, but reases to sign.

1. Is it sufficient to leave payment de
2. ing deed, or should we expropriate?
.2. What proceedings are necessary expropriate?
3. Who should bear the expense is not sufficiently full to enable us to to
answer your questions. For instance, it
does not appear whether the agreement does not appear whether the agreeme
eferred to is in writing, or merely ve
bal. Assuming that the arreement written one, and sufficiently explicit, an
action to compel specicico performance of
it would be preferable to expropriation

$\qquad$

WALL AND FLOOR MATERIAL WALL AND FLLOR KING KICKER 1. I intend raising an old frame barn.
30 $x 70$ feet, onto a cement wall. Could
you give me estimates of material, and
 she kicked
fell down.

-
 SMITH \& RICHARDSON, Columbus P.O., Ont.

Clydesdales, Stallions and Fillies, Percheron Stallions



Mount Victoria Stock Farm, Hudson Heights, P. $\mathbf{Q}$


Clydesdales, Imp., Just Arrived Out new wimporation has arrived
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antineau PT., QUEBEC, NEAR HUL

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er Attachment furnished if required Dept. W for free catalogue.
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from $\$ 75$ to $\$ 152$, John hlder \& Son. hensall,rontario IMPORTED SHORTHORN BULL Lord Lieutenant, sooso, for sale or exchange, quite
sure and active; young bulls and heifers by him and
sure ond out of dams direct from imported stock; aliso pacing
stallion, rising throe years old, wound, stylish and stallion, rising three years oid, sound, styish and
s. K. WEBRERY,
County Waterloo.
$\begin{aligned} & \text { Wawkesville Ont. }\end{aligned}$ Shorthorns, Shropshires and Berkshires
 Berrkhires,
W Willon. Brlekley P.O.. Hastings Sta., G.T.R. Shorthorns and Swine-Am now offering beiterst safe in calt, and some choice young bulls sor
the fall trade ; also Berkshire and Yorkshire pigs the fall trade; alage Berkshire and Yorkshire Pit.
showyand material
ISRAEL GROFF, Elmira Ont.


QUESTIONS AND ANSWERS. Miscellaneous.

SOWING FERTILIZERS. I have a piece of land, about three
acres, that ${ }^{\text {I }}$ would like to try fertilize on for barley, and as I have never sown
any before, would it be advisable to sow no fertilizare on trills around, here there are
If su,
what would be the best time what would be the best time to sow it,
nfter the barley was sown, or before?
I cullivated the land. It was plowed last fall.
Ans.-The fertilizer can be sown very
well broadcast, by hand. Where larg well broacast,
quantities of fertilizers have to be ape
plied, a machine is a great labor-saver, and even here a broadcaster seems to give
slightly better results than a drill. Sow
the the fertilizer previous to the barley seed
ing, with the exception of part of the ing, with the exception of part of the
nitrate of soda, which can profitably be
applied after the barley is up. Work it into the land with harrow and cultivator.
PITTING TURNIPS-POULTICING 1. Would you kindly answer, in your
valuable paper, if one can pit turnips successfully, and if so, how?
2. Can one poultice horses' feet with -Ans.-1. Turnips can be pitted quit
successfully.
Dig out a space for the successfully. Dig out a space for the
1it to about six inches deep. Pile the
turnips in a cone-shaped pile, cover wit) straw and a little earth, and as cold
weather approaches increase the dith weather approaches increase the depth of
earth to from six to nine inches. Place
a few tile on end along the top for ventilation. Turnips pitted this way in
the fall will keep crisp and good unti
springe. provided they don't frozen.
2. It would be better to remove


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Livingston's Oil Cake is the cheappost fed for covs- cheoperthen
 anc


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superiority over mixtures of purely chemical compositions. Professors Harexpressed in our booklet. Samples of the raw materials may be seen on the FARMING SPECIAL now being run by the Ontario Government. (We wil supply you with these raw materials if you prefer to do your own mixing-the
economy is doubtful, however.) We pay frelght on all orders of 200 lbs or more, In the Provinces of Ontarlo and Quebec-all other quotations f.o.b. factory. Payments in the fall. Don't be satisfied with any brand your dealer happens to handle-demand Davies', and if he isn't "up-to-date in the
Fertilizer Ilne," order direct from us. It duty on imported brands we give you Don't wast your money paying $10 \%$ duty on imported brands-we give you that in extra
plant food. Increase your yeields, profits and happiness for years to come by
writing us for our assistance.

 Champions of 1911 shaws Champions of 1911 shows. winning beth senior and junior herrs at Wiinnipeg, Bradom
Regina, Edmonton, Toronto and London ; also fifteen championshipes.
 Shorthorns and Clydesdales ${ }^{-W e}$ are offering 10 choice young bulls, serviceable age by His Grace (imp.) $=69740=;$ who is also for salo or exchange. In Clydes our present offering are two stallions rising 3 and 4 years old ; big quali,
orses, tres. and see them. A. B. $\mathcal{\delta}$ T. W. DOUGLAS, Strathroy, Ont. Farm one mile north of towi.

## 

 mongst them. A. EDWARD MEYER, BOX 378. GUEL PH. ONT


Pleasant Valley Farms Shorthorns $\begin{gathered}\text { For Sale: Scotish Signet, best son ot im } \\ \text { Old Lancaster, and segrerl }\end{gathered}$
 SALEM SHORTHORNS $\begin{gathered}\text { Headed by (Imp.) Gainford Marquis, undefeatoo } \\ \text { in britain as a calf and yearling, and winnor of }\end{gathered}$ junior championship honors at Torrorto,
under a y yoar for sale st teasonabale prices. BEST RESULTS ARE OBTAINED FROM ADVOCATE ADVERTISEMENTS

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It is
It is rich in the lung-henling virtues at the Normay pine trec, and is a pleasant, afe and effectual medicine that may be mife andertially relied upon as a specific for Courth, Colds, Bronchlild, Hoarse oese, sore Throat, Quinsy, and al Throat end Lung Troublea.
Mr. . . Monazhan, Charlotetotomn, woode Notery Pine syrup tan excel.
 ) hat todive up work and stay in the house lor two veabr I wed deveral coubb divied me to use Dr. Woody Normy Pree srip Three bottee entricly curred aederdicter for fourbs."
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numbert the

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 stallion for sale, and the Leicesters are doing
splendidy.
A. W. SMITH, Maple Lodge, Ontario Shorthorns of Show Calibre Only one bull for, sale now, but 113 grand
hiefers by hilidred.s Ropal must be sold, as
we have no bull to breed them to. Come and see them, or write. Grand Valley, ont
GEO. GIER $\delta$ son, SPRING VALLEY SHORTHORNS
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stock of both sexes for sale at reasonabie prices. | Btock of both sexes |
| :--- |
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KYLE BROS.
 our Buttar-bred ram, imported last year,
are very promising. Many of them are of Belvoir Sirdar ewes.

Sale of mertoun clydesdales The dispersion of Lord Polwarth's herd of Shorthorns and stud of Clydesdales | last week in March. |
| :--- |
| lane |
| lat. She Shells, the | being principally of Booth blood, were

not in active demand, and the average \%or the whole herd of 82 head was only \$80, the highest price being \$244, Ror
the cow, Wild Wave, purchased by Wm. Duthie, Collynie, who also took the second highest, Mertoun Mayflower, at $\$ 230$.
The highest price for a bull was $\$ 175$. The Clydesdales, however brought very good prices, the 20 head sold making an average of $\$ 355$, the highest price being 445 guineas, $\$ 2,335$, for the four-year-
old stallion, Knight of the Borders, by old stallion, Knight of the Borders, by
Baron O'Dee, out of a Hiawatha mare, uterine sister to Casabianca. He was
purchased by Alex. Rennie, Paisley. The purchased by Alex. Rennie, Paisley. The
highest price for a mare was $\$ 708$, for a Ighest price for a mare was $\$ 708$, for a
Sour-year-old daughter of Baron O'Dee, bought by R. Bruce, Inverurie.

## BOOK REVIEW

the boy and girl crof It is hopeful that an age in which the
improvement of draft horses and bacon hogs has received pre-eminent attention
should at least awaken seriously to the infinitely more important issue which is
the subject of a new book from the Macthe subject of a new book from the Mac-
millan Company of Canada, entitled,
"Farm Boys and Girls." The author is
. "Farm Boys and Girls." The author is
Prof. Wm. A. McKeever, of the Kansas
. Agricultural College, who dedicates the
work to the ten million boys and girls
enrolled in the pllic schet enrolled in the public schools of America.
He deals with the subject on the basis building a good life, and he does it
horoughly, in a sensible and helpful way ssuming the farm home to he the the way
ideal
lace for rearing the rising generation
gives an insight into whel gives an insight into what is meant
eugenics, and some vital considera-
$\qquad$
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$\qquad$ Craning style. Copies may be securce
frough this ofice, at $\$ 1.60$, postage

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## 10 SHORTHORN BULLS 10





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THE FARMER'S ADVOCATE.

## QUESTIONS AND ANSWER

 miscellaneous.CARBON BISULPBHIDE FOR WEEvils

| 1 |
| :---: |
| wee |
| am | box or barcel. A coal-oil barrel does Dery well, and holds about five bushels.

For this quantity, use three or four Funces of carbon bisulphide, placed in a small vessel on top of the peas. Leave
this in place 48 hours, and keep the barrel covered with a blanket weighted down tighly. The carbon bisulphide evapor-
ates, and the gas being heavier than air settles among the seed, smothering the seevils.
sectes

> occult spavin.

A six-year-old driving horse went lame standing with the toe on the floor and the fetlock forward. He always limps
when he is stepped over in the stall, and is lame for apout eierhy rods when he
goes on the road.
He acts very much as it ho had a. 'Jack," but has been ex-
amined by experienced horsemen, and no
and swelling or tender spot can be found
When he frst went lame he was working When he frrst went Inme he was working
hard, but is now on lieht work, and, al-
houmh he is some better, he is still stiff ts there such a thing as a blind, or in-
Is
Is terify Worriel. Ans.-This is spavin. In some cases
Lameness is present before any enlargement is noticeable, and in some cases Where the true hock joint is involved,
there is permanent lameness, and no enhargement appears. A case of this kind
is called occult spavin, or blind spavin, and the lameness is usually incurable.
It is probable a cure may be effected by firing and blistering by a
$\qquad$ ensily from three teats, but the opening
in the othe o one is so sumall that the
nilk milk goes back up instead of coming out.
Even the call fails to get any milk.
get Even the call fails to get any milk.
Can you tell me what to go ${ }^{\text {and }}$ F. s . Ans. - A teat siphon, which may be se
cured from a veterinarian, or a dealer in veterinary supplies, may, help to relieve
the trouble. Clean the instrument thor-
 introducing it to avoid injuring the lin-
ing of the teat.
This will draw of the and will tendes to enn into the the orife.
this syphon Chis syphon, attuched to a rubber tube
and
$a$ bicycle punp, and used as in very tull of nirer and the thurters well
massamed with the hands, the teats being
tied with tape to prevent escape of nir
 grafting.



Ours.
is. What is best time to cut the grafts?




Blatchford's Calf Meal-The Perfect Milk Substituto Three of four calvec can be rased on it at the cost of one where milk wh fod
No mill teed The only calf meal manutactured in an excluas
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engine, buy an IHC with plenty
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It
ne to begin with, and costs much more
届 costs almost as much as a good enine to begin with, and costs much more
atterward remairs and lossof time tine
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tion is positive. The igntion apparatus is so simple you can understand th at a glance. The fine-grained, grey, cast iron cylinders and pistons are
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Fairview Farms Herd $=\mathfrak{z z}$
 $)^{\text {Lers }}$ grat daughters.
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 \& CON R. F. D. Hatuint kind, and Otario, D. C. FLATT \& SON, R.F. 2 Hamilton, Ontario, 2471 , Hamilton Centre and Hillview Holsteins We we reo


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guarantees.



MENTION THE FARMER'S ADVOCATE WHEN WRITING ADVERTISERS.
questions and answers Miscellaneous.
Canadian challenge shield 10. Will the Canadian Challenge Shield ion at Othwa in september?
2. Will it be awarded each year? governing are competition fors and regulations
same 4. Will the Western Fair change its Ans.-1. Yess; according to rules. 3. It is presented for the champion
clycrestale in Canada. statlion. brect born and reared 4. Not likely. The dates are set, and
connict
probably cow pox.
Sinall, white Histers come at the base of the teats, the size of a pea, and on a a
day or two hard lumps come under the Mister and get very sore, scab over, and success, as it was only on one cow two nonns ago, six of the cows have it
now. Wat is it? What will cure it?
Would it ho dvien Would it be advisable to wash the hands
after milkiny each cow ? Ans.-This is probably cow pox, a conweeks to run its course, and the contage
ion is liailue to be carried to to another by the hands of the milker, and for this reason the person milking
affected cows should not milk others un less the hands are disinfected alter milkingee times daily with an ointment composed of boracic acid, 4 drams; carbolic
acid, 20 drops; vaseline, 2 ounces. Mix. Stock and poultry feeding QUERIES

3. To what live stock could the former
be fed with advantage? What the lat. 4. Is oyster shell made use of by
chickens simply as a shell-producer, or chickens simply as a shell-producer, or
has it other value? to. chickens
f. Is there uny advantage in exchanging chop from mixed train (barley, onts,
wheat and buck hhent) tor shorts for lit
lit
 sed oil in is mane at the oo colton
sutt ming the leathery hulls of the cotton
unt cutting the teathery hults on the cotcon
seed hy machinery setting tree the oily
kernels, which are heated, placed between cloths, and pressed tho remove the oil
The esidual cake is the cotton-sead cake
The 2. There are several kinds of mollaseos feed. Cane or teet molanses forms thed
basis of these. Other material is used to make up the feed, and methods and
proportions are known only to facturers. $\begin{aligned} & \text { 3. Coton-seed meal should not be fed } \\ & \text { 3. }\end{aligned}$ in large quantities to growing callves or
piks. as it seems to have a somewha poisonous efrect. In small quantitites, it
is kood feed for duriry cows and fattening
 ceane molassess, itains a a large propportion of
Cor for show, or in fiulithine in stock
fot




 Iixed chop. fike that sugkested, would he rat her strong for newly-weened intersy
and some advantage might ne obtuinci the shorts, As the pirs ket oilder, krad-
ually
whistitute

## HAD WEAK and DIZZ YSPELLS

 could not sleep at night. People all over this land toss nizht ot cose their eyes in the retreahim Sumber that comes to those m tose hear $\frac{d}{}$ nerves are inghThe siecplessness comes entirly from nerres or both, but whateve theart ause he blessing of of ound refresting slumber.

 dition
Mr. A. E. Martel, Rockdale, N.S. im Mith my hart, had , maak and osit up the grater part of the nigh
 Heart and Neare P Pills, and they did mo mo mud food I rot another, and afted deep $p a y$ mell as before I mas takeen alick. They tre the best medidine In ever heard of tor heart or neve errouble ${ }^{1} 1.25$, ste all denler bor, or 3 bores hor and
(i+1 - Purebred Reginitered
It Holstein Cattle
 rRet illuseraee aiantion worm HOLSTEIN-FRIBSI AN ASSO.
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Write us to-day for our prop.sition, telling you how any good dairyman may own a of-Performance cow without investing a dale Farm," Thoroid. Ont.
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 The Maplos Reoorcroo nolstoin Herd


 Yorkshires and Holstelns RCCHARD HONBY \& SONS, MM




 roan e.D. GBoice Evergreen Stock Farm offoum in bous bo
 int Sir dariale Holstein Bull sor sio 1 or springhank
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tew choice lambs and shearanings on hand. Ever
animal shipped is guaranteed. Angus Cattle
Write, or come and see my young bulls and
heifers. They are going at farmers' prices. ROBT. McEWEN, By ron, Ont. James McNeil Whistler and a friend,
strolting through a London suburb, met a sm
age. ".Onen," the boy replied. said Whistler doubtfully. "Seven." insisted the boy, rather
pleased at being taken for older. Turning to his friend, whistler said, "Do you think it
could have gotten
only seven years?"

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Amable Lamarche is the person ure Amable Lamarche is the person cured,
and the cure is vouched for by his numer"It was a sprain and a cold that was the beginning of my trouble," Mr. La-
marche says, in tellink his story. "I could not sleep, my appectite was fitful, in my mouth, and perspired freely, My sensation across the loins.

- When my weumatism, I realized that omy himnes
were the cause of the trouble, anml
 nsure good health, cure the fir
oms with Dodd's Kidney Pills

QUESTIONS AND ANSWERS Miscellaneous.
 this spring for pasture in August
milch cows?
SUBSCRIBER. Ans- - We would $\begin{gathered}\text { not advise spring } \\ \text { phowing of the land. } \\ \text { Cultivate it and } \\ \text { harrow down well before sowing the peas. }\end{gathered}$ Drill the peas in. If the land is in fair
condition, a good crop might result with-
out artificial fertilizer. If any fertilizer out artificial fertilizer. If any fertilizer
is used, no nitrogen will be necessary,
unless the land is very poor. Phos
隹 phoric acid and potash might be applied.
From 250 to 40 lbs. of acid phosphate,
and 125 to 175 lbs . of muriate of potash could be used. The lighter dressing
would likely would likely be enough. Apply just
previous to sowing the peas, and harrow
and cultivate into the soil quantity would cost about $\$ 5.50$ per
acre, and the larger amount about $\$ 8.25$ per acre.
2. Treating the seed with carbon bi-
sulphide will destroy the weevils in the seed. See answer to M. R. in this issu.
Late sowing is sonetimes effective in degree for this purpose.
3. We can recommend no better mi
ture for annual pasture than 51 bs ture for annual pasture than 51 lbs . of
oats, 30 lbs. Early Amber sugar-cane, oats, ${ }^{30}$ lbs. Early Amber sugar - cane,
and 7 lis. of red clover, sown in the
spring. This crop takes from six to seven weeks to be ready for pasture, and
sown a little late should make an excellent Mugust pasture for milk co
in May.
PIGGERY PLAN Intend building a piggery in the sprin
Kindly publish a plan. Would like five Rindy pubs a plan. Would like five
pens, each to accommodate six or seve
pigs. Would also like a hip roof. Pleas State the length of rafters. A. A.S.
Ans.-For a pen of the size desire place the pens all on one side of the
passage. Build with the pens passage. side of the building, if on possible
south se the feed passage along the nort
and side. A building 20 feet wide and 4
50 feet long, would be alout the r
size for five pens. Make each pen 8
 sage in front. The longer building wou
provide for a $10 \times 15$-ft. feed roum
one end, which is very handy, If not
dosired range, a small door in each pen leadin
to the passage; also one leading to a
outside yard, nnd for convenience in outside yard, and for convenience in mo
ing pigs from one pen to another, sma
doors in each partition are handy. Bui so that one end of the pen is hig
enough to lood pigs from the feed pa
sage into wacon hor hy in nearly on the level. We can see noth
ing to gain by putting a hip roof on th
pigpen. It will mean pigpen. It will mean extra cost. Wh
not twake an ordinary gable roof, or
shanty roof; the latter would be cheaper Ten or twelve foot scantlings would d
for posts in the gable-roofed structure ceiling, and a straw loft orverhead.
is better to construct the ceiling rather ter chance to alsorb the straw a be
the floor are slo door, and in the other back corner Fresh air can the a aminted live construc the wall. Three on either side would d
$\qquad$


Dairymen making the most money realize that it pays them well to use only high producing cows and the highest producing cream separator. That is why Mr. P. Blanchard, successful dairyman and
crepular agricultural speaker of Truro, N. S., who owns the prize-winning Ayrpopular agricultural speaker of Truro, N. S., who ow
shire heifer shown above, uses and recommends the

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