## PAGES

MISSING

## Zhe <br> Persevere and <br> Farmer's Jdvocate and Home Magazine

 Succeed.'Vol. XLIII
3
HIGH PROTECTION A NATIONAL HANDICAP. "The Farmer's Advocate" does n
Usolute free trade as being the mos nolicy for the Dominion of Canada to adont xisting conditions, although a permanently-estab lished system of world-wide, or even continental,
free trade would be a vast boon to all countries concerned. Meanwhile, in view of the policy studiously pursued by our great southern neigh essary to foster the development of
reliant and reasonably self-containe capable of supplying the greater part own needs, and being therehy rendered compara tively independent of the fiscal caprices of peaples with which we trade. We believe, for
instance, in conserving the supply of such rav materials as pulpwood and lumber, ana, accord ingly, favor export duties on such commodicies, the end that their utilization failing this, that they
in our own country, or, may be reserved until such time as Canadia enterprise can make asen capitalists to skim the
lieve in permitting alien cream off Canadian natural resources without con tributing a dollar to our public revenues. believe in a moderate and reasonable tariff impost on m
above above.
At the same time, we do not endorse the superficial claptrap arguments commonly adduced in favor of a protective policy, nor do we believe ine extreme protection of home industries, for the cardinal reason that suct a ergies of capital and first place, to divert the energ the country is not labor into channels for which involving economic waste: and in the second place, it affords capitalists in lines that could flourish without protection opportunity to maintain prices at an artificial level, more particularly through the agency of trade combines, which are a natural and mischievous outgrowth of high protection. Trusts and monopolies have their drawn in countries enjoying low tariffs.
The immediate purpose of this artice is te point out that the common mistane on that vast tion organs lies in their urban industries are the manufacturing and of material development. They great end and aim the apricultural and laboring classes merely see in on which to build cities and urban industries. The actual condition of the farming industriesing classes occasions them no concern so long as conditions are not onerous enough to drive these out of the country. Of course, all this is egregiously wrong. While we want manufacturing in Canada, we also want farmers, and from the standpoint of material progress, from the standpoint of citizenship, from the stanapoulaof nationhood, a flourishing agricultural popula tion is infinitely more to be desired than aiy . velopment of cities it is possible canada is primarily an agricultural asmuch as Ceanaual exports constituting the basis country, agricultural exports construtung the bans of our wealth, it follows extent, hence the net burdens of a system of fiscal protection to manufacturing intery, and otherwise, bears more than his full share of taxation. The interests of the Canadian farmer is dhamecricall, and, seeing that
maintenance of a high tarifl wall, and the agricultural population is our country steren

I,ONDON, ONTARIO, JULY 9, 1908.
part as well as special boun import duties, as wen as special bounties and nceded. Our tarifi is already plenty high, an - -- or-- coperive associa TIONS.
Co-operative fruit packing and selling has eached a point where a move forward is necessary. This movement began ten or twelve years ago in the formation of co-operative associato anization on somewhat similar lines had existed $t$ Burlington for some years previous. There are thirty-five or forty of these associations in the Province of Ontario to-lay; also a Scotia the British Columbia, while in Nova Scota. The rovembers co gerate in spraving, in buying suphembers cocking and marketing their fruit. The general effect has been beneficial both to the grow. er and to the consumer. The pack of fruit is more uniform in character, and few, if any, cases of fraudulent branding have been traced to thes associations. The small grower has bent by them, and in many ways they haw bimuated apple-growing on the averago made this branch of agricature a more aser A further development of the co-operauve prin ciple is now declared necessary. Not on mand there be co-operation among growers in handirg their fruit, but it is beicvarte the co-pera tive associations a central associa. other. A couple or years sentative of the Ontario co-operative arganizasentative At its annual meeting in June of this year, it was contended that there must be stronger and more effective banding together the local associations if the movement is not receive a setback. Never a friend of co-operativ enterprise, the apple-huyer is charged wir having made special efforts during the past the trade. thwart and bring it into disrepute wers but there This may not be the of them regard co-opera is no doubt that many of ther preserves. In adcion as a trespass upond sometimes underhand opdition to this active and somve to cope with the and handicaps incident to inexasual the varions frailties of human nature The need of effective business negotiation disposing of the product is also manifest in dhort, it is held that some concerted action is in shorrsary to assist and strengthen the co-operanecessassociations.
The central organization was formed two years ago to aid the local associations in buying sup. plies, in selling the fruit, and in keeping them informed regarding market and crop conditions Excepting the last-named service, nothing tangirie has been accomplished, and even regarding crop conditions the work has not been so effectual ad t might be, owing to the apathy of many local officers in supplying reports. The larger objects aimed at have not been achicvect because the cen-
tral body has not had power to engage in busi tral body has not had ing been largely advisory. Nor has the central ing been targely adhe full support of the loca organization had the
ones. During its first year, there were thirteen local associations enrolled as members. At the end of the year three dropped out, leaving but the total up to twenty-four, or about two-thirds of all in the Province. To hold and increase its
. The mere meeting to er discussing co-operation is not sufficient gether and discussing co-operation is not sum At the meeting referred to, incorporation was recommended, and the association, devoting his hole time to the work. Incorporation would enable the central association to buy supplies wheleand distribute them among the local asso ciations, for which it might also act as selling gent. A capable manager, studying the market and in touch with the trade, should be of serve in placing the output better than a number of small companies acting separately. It need no mean the discontinual the placing of the frut . In it is claimed market could be would become a strong that such an organi. It has also been suggested factor in the grade the that inspectors shar on every barruit ap to a certain standThere is admittedly. need for instruction in spraying and packing. Many of the recent local spraying and are novitiate at the business, and help of this kind would be appreciated.

In just how far these suggestions may prove In just how rains to be seen. If the plan of a capably-managed central incorporated ous be worked out to fruition, it should prove a vast benefit to the fruit-growing industry, and to the jects would doubtless commend themselval Departpractical endorsement There is need, however, for wise business counsel before anything of the kind is undertaken.

## REFORESTATION OF FARMS AND PUBLIC LANDS

 Between four and five hundred thousand seedlings have been sent out this year from the ont vincial Government's tree nursery at Guelph, Ont. says E. J. Zavitz, who has charge of the Fory estry Department. The resources dend and are barely sufficient to supply the demand, ond with the vastly increased planting which much and should be encourg be required. Mr. Zavitz greater nursery areade able to public is now giving waste land in various sections. It may be news to many readers to know that, not only in New England are there abandoned farms, but right in Ontario, the banner agricultural Province of the Dominion, may be found limited areas of worthless blow sand, which has been homesteaded, but which the owners have been glad to dispose of for a song, or to outright. The township of Walsingh and while folk Co., contains more or less such land, while portions of Muskoka, Parry Sound, and some ther counties, In wiew of the alarming and inrop but trees. In view or the lumber, it is of reasing scarcity of commercial lumber, the greatest importance that such or Provincial enterprise, as well as that holders of private lands hould take prompt steps to plant the poorer and rougher portions of their farms with trees. In deed, throughout the great area of agricultura Canada, no farm, even if composed entirely of first-class arable land, should be without a modes ate-sized wood-lot. In years will be pointed to ent-day farmers who pat and generation. Le as wise men of thir us have fewer. Ha lanted and will produce more crops per acre macrount of the protection, while the forest will a a constan ride and joy of its thrifty owner[^0]THE - ARMER'S ADVOCATE and Home Magazine.
the liading agricultural journal in the DOMINION.

john weld, Manaorr.
Anass nor $T$ $\qquad$ Winnipge, Man
W. W. CHAPMA

London (Eneland) Ofrice
London, W, C., England
is THE PARMERS ADVOCATE AND HOME MAGAZINE it published every Thursday.
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illustrated with orignal engravings, and furnishes the most



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Address-THE FARMER'S ADVOCATE, o
the william weld company (Lnmted),

CUSTOMS REGULATIONS RE IMPORTED STOCK. The new regulations of the Dominion DepartCanada, duty free, of pure-bred animals for the improvement of stock, which came into effect July 1st, 1968, provides that, in the case of importation of animals of any of the breeds for which Canadian pedigree records exist, certificates of registration in these must be produced in order to secure admission free of duty. No animal imported for the improvement of stock will be admitted free of duty unless the importer is domiciled in Canada or is a British subject, and furnishes a certificate of the recorded pedigree in accordace case In case such certicate is paid, subject to a refund upon the production of the requisite certificate and proofs in due form, satisfactory to the Collector of Customs, within In the case of the importation of animals from a foreign country, of a hreed for which no record
in this country exists, the Accountant of the National Records, at Ottawa, is authorized to issue an " import certificate, provided that, on examithe animal is duly recorded in an accredited breed record in the country of origin. The import cer-
tificate, on presentation to the Collector of Customs, will entitle to entr
Farmer's Advocate," as a reasonable proposition the Holstein-Friesian Association is recognized by working under the direction of the National Reca Dominion charter, and as the validity of its sys tem of registration is unquestioned, no important mals recorded in its herdhooks.
over the loose and antiquated ones hitherto in force, and, while "The Farmer's Advocate" be-
lieves they are unnecessarily liberal in providing conditionally for the free entry of breeds for which ments of no Canadian records, still the briculta mended for the advance that has been made.
other, care should be observed in the adoption of rules that may cause friction and dissatisfaction in the
ranks. Hoping to hear from others on the subject ranks. Hoping to hear from others on the subjec
through your columns, I subscribe myself, through your columns, I subseribe mysel
Wentworth Co., Ont.

## PRICKS IN SHOEING.

This form of injury to the horse's foot is of fairly
ommon occurrence, and the shoer cannot always b blamed for it. The predisposing causes, writes a noted English veterinarian, are very thin walls, irregularit left in the hoof, coarsely-punched and badly-directed nail holes. The symptoms vary considerably, the ani mal may show lameness immediately after the accident
and stand holding up the injured foot, or show signa and stand holding up the injured foot, or show signs of uneasiness by pawing, but, on the contrary, a fort.
night or three weeks may elapse before lameness appears, often quite suddenly. In these cases the nail laminm, causing pressure, followed by inflammation and suppuration. In bad cases when suppuration is established there is marked lameness, the animal hardly
touching the ground with its foot. When the puncture is on the inside wall, the horse tries to go on the outside of his foot, and vice versa. Treatment.-If an animal is known to be pricked at
ime of shoeing. and the smith runs some antiseption ime of shoeing, and the smith runs some antiseptic nto the nail hole-creosote, carbolic, or any other
dressing-nine times out of ten no trouble follows. The first thing to do is to remove the shoe and test the oot with the object of locating the injury. In doing
this one sometimes finds that if there is a strong wall and one sometimes the animal will not wince when pressed with the pincers, unless a deep grip of the hoof is taken. especially with a deep nail. At other times it is diffi-
cult to cult to locate the seat of suppuration, as the whole foot seems to share in the tenderness. The nail holes
on either side of the foot and at the toe must be on either side of the foot and at the toe must be
cleaned out, and their depth observed, and any evidence of moisture. The best searchers are these where the
handle is as straight as possible and the point fine; handle is as straight as possible and the point fine;
double-edged searchers of various widths are extremely useful for running up the side of a wall when following nails for diagnostic purposes. . Once the nail is dis-
nis covered, it should be followed and thoroughly bottomed, and any discharges that may have formed liber-
ated. In paring a foot we must look carefully for eviated. In paring a foot we must look carefully for evi-
dence of what is called a drawn nail. The shoer drives the nail so far and finds that he has jagged the horse,
or "beefed" him, as he calls it, and then he withdraws the nail. On examining the holes in the foot one finds ing out we find the mark of a deep-drawn nail on parthe driven nail, or where a nail has been left out altogether, and this is often the cause of the trouble. Hot
antiseptic baths and poultices complete antiseptic baths and poultices complete all the treat-
ment that is necessary in the great majorit and once the inflammation and accompanying of cases, have passed off, the shoe is put on with an antiseptic dressing and leather sole.

KICKING

The term "kick" is usually restricted to a is said to "s strike out " when he makes a for-
ward blow with one or both fore legs We regard both these movements as kicks. A horse can kick in three ways: (1) To the front with one or both hind legs ; (2) to the one or both fore legs. Unlike horned cattle, to one side, except to a slight extent, owing to
the presence of a ligament (pubiofemer the presence of a ligament (pubiofemoral) which
connects the thigh bone to the pelvis, and which greatly restricts the side action of the limb. If a horse, therefore, wants to kick a man who is
standing a little away from his side, he wil standing a little away from his side, he will hav person wishes to stand in safety by the side of a
horse's hind quarters, as, for instance, when examining the hocks, he should get an assistant to
stand on the same side and stand on the same side, and to draw the head
around to it a little, so that the animal will not around to it a little, so that the animal will not
be able to turn round and kick, if so inclined. I the horse be a vicious kicker, the advisability of standing held or tied up, will be self-suggestive to anyone who has had experience with horses. The forward kick with the hind leg (called a "cow horse can in this manner hit a man who When striking out in front the horse will gene delivered with greater speed fhen the other ii. If he strikes gut with both fore feet, he will , quick, short effort, or he will make ") preater or liss attempt at rearing so as to down. Th. comaning idca more or of knocking it

Having read Mr. Sangster's letter in your issue comments on the subject in the same number, ven ure, at the risk of being voted presumptuous, some suggestions along that line. If the plan of privilege or right to use certain words in the naming of their stock in the breed records be adopted, will there not be danger of discord in the ranks of appliask for the right to use the same name? And in the satisfactory decision be arrived at ? prrsonally will a fer names of one word, or two at most, as being more convenient and economical of time and space, and or to a certain number of letters, and also for accept-
ing only one animal of a breed with the same name after a fixed date. I presume many breeders would
find difficulty in selecting names where they have many to record, and I can understand that many a hitch Would likely occur from the selection of a name al ready on record, but 1 am informed that in the case
of records adopting that rule, the customs, where a name
is offered which is already on record, that the registrar is is offered which is already on record, that the registrar
authorized to notify the applicant of the fact, and to select a name for his approval, which, if accepter
stands, but if not acceptable the owner has the privstands, of of ering oothers. This system may have
ilege of
appearance of being likely to lead to many delays, appearance of being likely to lead to many delays, but
I am told that in actual practice such has not proven I am told that in actual practice such has not proven
to be the case. While my interest in Clydesdale nam-
ing is limitod, and I am not likely to be seriously inconvenienced by the adoption by the Canadian Society
of the request to respect the special rights granted by of the request to respect the special rights granted hy
the Scottish Clydesdale Society for the use of certain hames, or even by the adoption of the same system
here, I would prefer the abolition of duplicate names after a fixed date in the near future, to avoid possilile
confusion from the fact of a number of animals of the same name appearing in pedigreeser of representatives of
the same breed. And I confess I should be disposad with my present limited knowledge of the working of the "patent-right" system, to doubt the wisdom of its
adoption in this country, as 1 should fear the possi blity of friction in the society over the granting of
special privileges to one man or firm, as I judge from
remark in your aditorina a remark in your editorial there was in the Scottish to one firm whom I fail to see had any special claim
to that name, which has been used in so many plent ing combinations, such as Baron Renfrew, Baron Solway, Baron O'Dee, etc. And I have failed to find that
in practice confusion has to any great extent been Caused by the use of the word Baron in the naming of made of it in the Secretary's letter. 1 do not know
that the name Baron's Price has een poached to any
complainntlo extent-indoed complainable extent-inded, I do not remember sering
it duplicated-nor do I know whethor the name of the
famous horse was chosen by his prosent owners or hy his breeder. If it was given ty the breader, I think
he, if living, had
 the use of the name of their farms in connection with pleased to call them, are to be granted to a fuw hirved-
ers or to many. But 1 doubt whan breeder or frm could have commanted sufficient ind
ence e of sefure $n$
$\qquad$
$\qquad$

## EDUCATION AND EXPERIMENT.

geldings. Mules usually kick out behind with toms entry the following description of each horse (or greater freedom than horses,
inclined to bite or to strike out in front. Mares, from sexual causes, are more inclined to kick with
their hind legs than are the male members of their species.
Horses sometimes kick with their hind foot in a good-tempered way-not for the purpose of inflicting pain,
their attention their attention out of the way, as we may oc-
casionally see a mare do to her foal. Horses casionalick and play without any vicious design. I am convinced that many apparently vicious kick which miss their mark are delivered," not with the
desire of sending the blow "home," but to warn the intruder against nearer approach extra weight on his fore feet, and, he will put lower his head. When he cow-kicks, or strikes out in front, he will raise his head and bring his weight back.
In almost
In almost all cases, just before a horse kicks,
he will draw back his ears and more or less show he will draw back his ears and more or less show
the "t white of his eyes." If the suspicious obthe " white of his, eyes. will bring his head slightly ject be behind ho see it, and will prepare for his
round so as to attack by bending the fetlock and raising off the ground the heel of the hind leg of that side. A
horse cannot kick with the hind leg upon which he horse cannotick whit, for he has to transfer the is resting to its fellow before he brings it into play. My readers, will observe I have used the word
" slightly" with reference to the extent the ani"slightly" with reference to the extent the ani-
mal turns his head when he gets read to " lash
and mat," for, if he brings it round a good deal, he
out
will be obliged to put more weight on the hind will be obliged to put more weight on the hind
leg of the side to which he is looking than on its leg of the side to which he is looking than ont
fellow, and would consequently have a difficulty in using it
Horse."
In Saxony, it is said, no one is permitted $t$ t
shoe a horse until he has passed a public exami shoe a horse until he has passed a public examl nation, and so becomes qualif
performance of the operation.

## LIVE STOCK.

IMPORTING STOCK DUTY FREE Following is the text of the two recent memoranda issued by the Dominion Department of Customs
Collectors of Customs, respecting the free admission of animals for the improvement of stock, taking effec July 1st, 1908. The first memorandum, issued - June 1st, was amended and supplemented on June 12th. The two, taken in conjunction as published $\begin{aligned} & \text { stitute the present instructions in the hands of collect- }\end{aligned}$

Ottawa, 1st June, 1908. REGULATIONS RESPECTING THE FREE ADMIS SION OF ANIMALS FOR THE IMPROM, STOCK-IN EFFECT JULY 1st, 1908.

. Conder Order-in-Coun-General in Council is pleased to
 order that on and ahed by Order-in-Council of the 8th November. 1887, respecting "Animals for the improve ment of stock," shall be and the same are hereby re voked, and the following regulations prescribed rifi spect of the free entry under the custor and dogs, fo
horses, cattle, sheep, goats, asses, swine and the improvement of stock:1. No animal imported for the improvement of stoc shall be admitted tree of duty unless the importer domiciled in Canada or is a British subsect and lis
nishes a certificate of the record and pedigree in a lis nishes a certificate of from time to time by the Min
of registers designated fowing that the animal is pure-bred
ister of Customs, showing ister of Customs, showing that the animal is pureok
and has been admitted to full registry in a hook of Tecord eatablished for that breed.
An affidavit by the owner, agent or importer that
and An affidavit the identical animal descrited in satc
such animal is the id
cortificate of record and pedigree must be presented. certificate of record and pedigree must be prese at the
2. In case such certificate is not at hand and time of the arrival of the animals, the en the duty up-
may be accepted subject to the refund of on production of the requisite certificates and
due form satisfactory to the collector, within one year from the time of entry. - be accepted for the free importation of and the custons procedure in
improvement of stock, and the subject to the direction connection therewith, stams.
of the Minister of Customs. The original certificate of pedigree shall be marked in each case with the customs entry number and office
dating stamp. and be signed by the Collector of Cus-
toms. and a copy thereof shall be filed with the entry
隹 aneman
 Height

The Ontario Agricultural College is not a model farm, nor is it run at a profit. are run to farms in every neighborhood maintained for the make money. These of aching two objects that a commercial farmer cannot accomph of boys, men and woa college for the education of boys, men and men, and, not be necessary were the farm merely managed to make money. For example, representatives of the various breeds and classess an stock have to be kept, which is in, besides affordexpense and inconvenion moung men and women, the
ing an education to yor College does much in the way of investigation and experiment, and a great deal of this is incompatible with economer profit would be to
attempt to run this farm for atteat the objects for which it is maintained, and, so long as I have anything to do Gith. Day, actnot make the attempt, satario Agricultural College, ing pres June excursionists
dent Creelman abroad.
While this is true, there are many methods and While this is true, there are many methods and ideas practiced on the practical farmers, while a trip among the stock in company with Prof. Day or his assistant, Mr. Wade, is made the character. for discoursive talks of an instruction was voted this year for the remodelling of the College stabling, and a considerable improvement in the arrangement is being made. Meantime, thised ar-
is disposed about the premises by improvised num-
rangements. A num

RTHER Ottawa, 12 th June, ENTRY OF ANIMALS FOR THE INPROVEMENT OF STOCK-IN EFFECT JULY 1st, 1908. With Canadian certificates of record and pedigrea must bear the seal of the Department of Agriculture. In the case of horses, cattle, sheep, swine, goak asses registered as pure-bred, in a register or by the
records, not in the published list designated by the Minister of Customs, such register or book of record may be accepted as being designated by Customs When there is presented to the pedigree with an "impor certificate, attached thereto, issued from the office the Canadian National Records, bearing the seal of the Department of Agriculture and
countant of the Canadian National Records. The said "import certificate" shall be ted by customs offcer, attached to the entry. List of registers or books of record, in one or warethe animals undermentioned must sred before admissi
stock free of duty :


N IRISH CALF MEAL
In the course of some investigations in calfaring, the Trish Department are being sold throughout that country calf meals which are altogether un-
reasonable in price, and inferior in quality. The easonable in price, and inferior in quality. wo parts by weight of oatmeal, two parts of corn tweal and one part of pure ground flaxseed. The total cost per cwt.' of this meal need not exceed Os. 6d. while, as to composition and results, heing sold as high as 28 s , per cwt. Trish farm-
ars are strongly warned not to be induced to buy ers are strong
such meals.
ation is still maintained, four a course ro- core field, ying by itself at the north-east end, has been set side and seeded with alfalfa. Fifteen pounds per acre of good seed were sown, along with a ight nurse crop of bariey. Except prove quite might have been better, for, while the stand of allalif is very good, weeds may interfere with is of e what in patches. However, there is prom material ery nice experiments with alfalia hay as a ior feeding experiment other expensive purchase concentrates.
DIPS APPROVED BY U. S. BUREAU OF ANIMAL INDUSTRY.
Under the new regulations, which took effect Une 15th, governing the importation of sheep into the United States from inspection by an vided that sheep which, upon Bureau of Animal Industry, do not show signs of scabies or other disease, may be imported from a district inected wy a Canadian official veterinarian stating that by a Canadian ofice carefully dipped under official supervision in one of the dips approved by the United States Secretary for Agriculture, as de-
scribed in Regulation 33 of B. A. I., Order 148. scribed in Regulation the lime-sulphur, tobaccosulphur, cresol and coal-tar creosote dips, which conform to the prescribed conditions. interested information of flockmasters and dips, we reproin the manufacture of commercia

Regulation 83 of B. A. I. Order 143, a amended
reads as follows:-
Regulation 33.-The dips now approved are :Regulation 33-The dips now approved are:-
(a) The tobacco-and-sulphur dip, made with sumcient extract of tobacco or nicotine solution to give a mixture containing not less than five one-hundredtha of phur: Provided. That for the first dipping of infected phur: Provided, That for the irst aipping oo a sume
sheep, in lieu of the sulphur herein prescribed, There shall also be noted on the
tine solution shall be used to give a mixture containing not less
(b) The lime-and-sulphur dip, made by mixing 8 class of dips to which the product belongs, such as pounds of unslaked lime and 24 pounds of mixing
sulphur, and boiling with 80 sulphur, and boiling with 30 gallons of water for not
less than two hours. All sediment should be allowed less than two hours. All sediment should be allowed
to subside before the liquid is placed in the dipping vat. This liquid should be diluted sufficiently to make
lop 100 gallons before use.
described dips :-
(c) The cresol dip, which consists of a mixture of cresslic acid *with soap. When diluted ready for use this dip should contain one-han or 1 per cent. of cre-
sylic acid. (d) The coal-tar-creosote dip, which is made by
mixing coal-tar creosote or coal-tar oils and cresylic acid separately with resin soap in varying proportions less than 1 per cent. by weight of coal-tar oils and cresylic acid. In no case should the diluted dip con tain more than four-tenths of 1 per cent., nor less than
one-tenth of 1 per cent. of cresylic acid, but when th propertion of cresylic acid falls below two-tenths of per cent. the coal-tar oils should bo increased suff
ciently to bring the total of the tar oils and the cresylic
weight.
The cresol dip and the coal-tar creosote dip should always be tested on a small scale with the water and
under the conditions to be employed in dipping in orde under the conditions to be employed in dipping in orde
to avoid possible injury to stock. The diluted sampl should be allowed to stand for at least an hour. after this length of time there is a separation of an oily layer the dip should not be used with that kind o water. Especial care in this
where hard water is to be used
In the undiluted coal-tar creosote dips there may be in cold weather especially, a separation of naphthalen and other constituents of the dip. Care should there geneous in character before using any portion of it.

Manufacturers who desire the Department to ap prove their dips for official dipping should submit ample of their product to the Bureau of Animal In
dustry in Washington, and accompany this with th ormula used in preparing the dip.
Before a proprietary substance is approved for use
in official dipping the manufacturer must agree as follows :(1) To recommend for sheep scab a dilution of the
product, so as to conform to the requirements of th Department of Agriculture. sition.
(3) To place on packages of dips which have been examined and found to conform to the requirements o the Department the following statement

A sample of this product has been subnitted to amination. We guarantee the contents of this package to be of the same composition as the sample submittr
to the Department, and that when diluted according to the directions printed thereon for the treatment sheep scab, it will give a dipping fuid of the composi tion required of a ............. $\dagger$ dip by the regulations, Secretary of Agriculture governing sheep scab., reference to the United States Government or any o its departments, except as provided in the preceding paragraph, unless such reference has heen submitted to
and approved by the Department of Agriculture, ant to have on containers or advertising matter no false or misleading statement.

By the term cresylic acid as used in there regula

## WHITEWASH IN PIGPENS

$\qquad$ the subject of pigpen construction, a Quebec Prov ince subscriber, J. Lumsden, of Pontiac Co., re marks that he is a great believer in whitewashing twice a year. He considers that it has handsomey repaid him for the trouble, particularly las year, when some eighteen or twenty farrowing sows averaged better than nine pigs apiece. This
year he has not done quite so well, having been unable to give sufficient of his personal time and supervision during the period of farrowing, the average per litter this season being probably
about eight. wash, which is wholesome and useful in destroying vermin, adheres better to an undressed than to a planed surface, consequently his hogpens are lined

## THE FARM.

## HOMEMADE LIGHTNING RODS

As the usual quota of losses from farm buildings
eing struck by lightning have already this senson been sustained, and inguiries have reached this office for in
formation regarding the construction of the ormation regarding the construction of the twisted
wire lightning rods recommended by Mr. T. Baty, Middlesex Co., Ont., and described by him more than once in these columns, many of which he has erected or his own and his neighbors' buildings, proving entirely
satisfactory, we herewith furnish further information satisfactory, we herewith furnish further information o
the subject. This class of rod has been approved by an Ontario provincial inspector of insurance, and by eminent electricians both in Canada and England. Fo
the construction and placing of the twisted-wire che construction and placing. of the twisted-wire ro
Mr. Baty's instructions are in substance as follows. Use soft galvanized number nine wire, nine strands. wagon wheel answers very well for twisting. Set the wagon in a convenient place, and raise the whee ar ir for greasing. Measure out the needed length of
wire for cable, as for an ordinary barn the full length may as well be made at once. Liberal allowance should be made for grounded ends, as a connection
with damp earth at a sufficient number of places is with damp earth at a sufficient number of places is of
first importance. If a small well auger can be had, and a hole bored to the depth of seven feet, it will be all right. If not, then a hole four or five feet can be
dug, and the end of the rod coiled into a flat andral dug, and the end of the rod coiled into a flat spiral.
Drive a stake, with a hole bored in it, through which the ends of wires can be passed and bent around. The other ends of wires can be hooked, each one around a spoke of the wheel close to the huh. In measuring
the wires, care should be taken to have them the wires, care should be taken to have them of equal
length, and an allowance made of one foot in 200 for shrink in twisting. Now, having the nine wires stretched out and fastened securely, before beginning to twist, brace well both wagon and stake, for there will
be considerable tension. It is well. also, to throw across under the wires some old rails or boards to keep them out of the mud or grass. Turn the whee Until the cable is sufficiently twisted to hold together and the job is done. The rod may he stapled closely
to building, or a cork may be put under at each ataple to building, or a cork may be put under at each staple
if desired. The old idea of the necessity of insulation
hato has been abandoned, Mr. Raty declares. nlthough Prof.
I. Beynolds. of the Ontario Agricultural College,
considers that it is advisable to place a class or porce-
ain insulator between the wire and the building at any approaching bend; for example, where the wire re onters toward the building below the eaves, if it hap-
pens to be carried down that way. At other points ens to be carried down that way. At other point
prof. Reynolds agrees that insulation is not necessary Highest lines and projecting points should be spe ially guarded, and it is, therefore, well to have rod on all ridge boards. For the plain barn with on ridge and two gable ends, the rod may be run the
whole length of the ridge, descending and entering the whole length of the rage, In the case of a $T$-shaped barn or a shed running out from the main building, in addi tion to the rod with two grounded ends already men
tioned, another with end in the ground at the outer end of shed should be run up the gable end to the ridge, and along the whole length of the ridge and connected with rod on main building, making three
earth terminals and all ridges protected. Upright earth terminals and anl riages protected. Uprigh high and not more than twenty feet apart. To make these, lengths of six and a half feet can be cut off and this extra length to be opened out and wrapped around the rod where attached. This makes all solid, and Corms good electric connection. At the upper ends of soint the wires should be opened out a few inches and spread apart in all directions. To hold the points up-
right, get the blacksmith to make for each an iron
ripod. Have the rods run in as direct a courso tripod. Have the rods run in as direct a course as
possible; the fewer sharp turns there are the better.

MANURE AND THE ATMOSPHERE.
A correspondent of " The Farmer's Advocate, hauled out, spread upon the land, and left until is dried out, does not lose considerable fertility drying. Alluding to the occurrence of nitrogen snow, he desires to know whether a man who faws out his manure and leaves it to evaporate the surface of the soil, does not, hy so doing, a to enrich neighboring farms at the expense his own?
If manure is drawn fresh from the stable and spread in a thin layer on the soil, and is so rapidy dried by the wind and sun that no fermentation ensues, then the amount of nitrogen in the manure that passes into the atmosphere is it so leavin to be inferred that the practice of before plowing dry is the surface of the soil The best place for is advisable to get it there while it still has its original moisture for in such a condition it will, more readily than if dried out, become thoroughly incorporated with the soil-become in fact part and parcel of the soil-the medium from which the liberat roots absorb their food. Further, the will proceed more readily in the soil maist manure viously dried out, for the action of the bacteria which do this useful work will not have been ments it means, therefore, instead of fraggeneous throughout. It will be ne whio homorally gives a more immediate return in increased erop yields than one in which, especially in dry seasons, the manure must have time and addifor further decomposition

The spreading of actively-fermenting manure on the surface of the land means a certain loss of
nitrogen by escape into the air. The amount of this loss will, of course, be dependent on a numdition of the manure will be the chief. According to some experiments we made a few years ago,
manure taken while very hot from the heap, and manure taken while very hot from the heap, and
allowed to dry by wind and sun. lost at the rate allowed to dry by wind and sun, lost at the rate
of, approximately, half a pound of nitrogen per
ton. The results may he tabulated as follows : Nitrogen, Value of
 While it is quite true that the air contains
nitrogen compounds, derived from decaying vegetable matter, "tc., it is not laden, as our corretilizing material, According to an English about is of one part per million appears to be ${ }^{\circ}$ the past year or more we have determined in and we find that the combined nitrogen which of the atmosphere amounts to from 3.5 to wont wher per acre, pwr annum. To this slight Trom, the our lands are fertilized


Peace and Plenty
Pacture sounn un the Ontario Asricultural College Farm

KERNELS FROM THE O. A. C. EXPERIMENTAL department.

To the June excursionists visiting the Ontario Agricultural College this year Prof. Zavitz, the gen-
eral of the experimental department, pointed out a series of plots to compare the strength of straw of strawed of the ordinary white oats. Tartar King and Storm King, although pretty stif, when they do lodge go down badly. Siberian and American Banner are 5) productive. In point of yield the Yellow Russian has the average of the last five years' work, the Banner the average of the last five years' work, the Banner
Siberian and Irish Victor following close behind. Early Ripe is the earliest oat, but only a fair yifider. Daut beney is the best very early oat. In reply to a ques-
tion, Prof. Zavitz stated that Ligowo is ary tion, Prof. Zavitz stated that Ligowo is a very good
oat, weighs well, and is of good quality. demonstration sfeding of alfa
The crowd was treated to quite an instructive adon land of the right kind when put in and handled in the right way. Good deep subsoil drainage is of prime
importance. Under these conditions alfalfa may be expected to yield 15 to 20 tons of green crop per acre or four to five tons of hay in three cuttings. The
mixing of the third cutting with corn in the silo was mixing of the third cutting with corn in the silo was
suggested. Along the central lane leading back acre had been sown, according to directions recommended in Prof. Zavitz's recent bulletin on alfalfa. Good seed, at the rate of 20 pounds per acre, had been sown in with a nurse crop (sown through the tubes of course) of a bushel of barley per acre. The catch of alfalfa was very good, while a fair yield of barley was also promised. From this new seeding Prof. Zavitz
anticipated about two crops of hay next year and three cuttings the year after.
potatoes.
Out of 52 varieties of potatoes, the Empire State ranks as one of the best all-round varieties, being a good cropper and a good table potato. Early Fortune smooth, good-sized tubers, cut in pieces from one to
two ounces in weight, depending on the cost of seed at planting time. "How many eyes to a piece," someit didn't so much matter about the number of eyes. In experiments at the College they had found that pieces with two eyes gave a larger yield than potatoes with yielded. three but they failed to ohtain a larger yield from five-eye pieces than from those with four eves. trom five-eye pieces than from those
When potatoes were cut and planted on the same day there was an increased yield of 15 bushels per acre
over cutting some time ahead. When land plaster was Over cutting some time ahead. When land plaster was
used on the cut potatoes the yield was 17 bushels per used on the cut potatoes the yield was
acre more than when nothing was used. The advantage of using lime was somewhat less, being in the neighborhood of eight bushels increase as compared
with no treatment. Five inches has proven the best average depth at which to plant, though this varies according to season. In one very wet season one inch gave the largest yield, and in one excep
bright tin clippings as a scarecrow.
BRIGHT TIN CLIPPINGS AS A SCARE Row from
The best means found for keeping crows away the corn was to hang pieces of roright tin (clippings
obtained from the tinsmiths) up to stakes set about the field. The bright sun glistening on the dangling tin surface, and the slight rattling made by its mothe corn completely

| CORN EXPERIMENTS |
| :--- |

One ton more of total crop per acre has been ob-
tained from planting corn in hills than in drills. of his ton about one-fifth was ears and four-fiths stalks. For ensilage purposes Prof. Zavitz recommends White cap Yellow Dent for Central Ontario. On the College farm Prof. Day is going in for it more and fore. For
husking, King Philip and Early Genessee Valley are among the best, though Compton's Early and Salzer's among the best, though
North Dakota are good.
LEVEL CULTURE VS. RIDGES FOR ROOTS. Lwo-thirds of a ton more has been obtained on the
Theraltived on the level than from those grown on riages. This, the loass and sandy would hold good quite generally on of mangles, the land, though it might not on clay y yollow intermediate
Yellow Leviathan, a mangel of the yol class, has gone ahead of every other strain, even o
the Mammoth Red sorts, in point of yield, while its EFFECT OF GREEN MANURING AND CROP An interesting rotation experiment was pointed
out, the object of which was to test rotation of crops the relative advantages of plowing
under a first crop, a second crop, and also a stubble sward of red comparison with a plot growing no rop "hatever
in compere will be 96 plots involved in this one xperiment
There
which is conducted in manifold. Thich is conducted nifold

WINTER WHEAT.
In winter wheat Dawson's Golden Chaff no longer
heads the list in yield, having been outclassed by four or five other wheats or the samer, then Beardless Rural New Yorker, while fifth or sixth comes the Dawson's Golden Chaff. Of red wheats, Imperial Amber has given the largest returns

MIXTURES of Spring Grains.
ong spring grains the best yields obtained in exAmong spring grains the best yields obtained in ex-
periments, comparing all sorts of single grains with all sorts, of mixtures, have been obtained from a bushel each of oats and barley par acre. The varieties recommended are Daubeney oats and Mandscheuri barley.
Peas and oats have not given quite as big yields of Peas and oats have not given quite as big yirdas of
grain as barley and oats, although two points that dograin as barley and oats, although two points that de-
serve to be stated in this connection are that peas leave the land in better condition than barley, and both grain and straw possess a much higher feeding vatue
per pound. These considerations, in our opinion, quite outweigh the slight difference in yield of the two mixtures. For green feed, Prof. Zavitz recommends reas and oats. CATCH PASTURE.
As an annual pasture or "catch" crop, Prof. Za itz's
gavorite mixture still is $1 \$$ bushels oats, 80 pounds Early Amber sugar cane, 7 pounds red clover. Quite a large area of this had been sown and was looking well
the oats having made a good growth; the sugar cane the oats having made a good growth; the sugar cane
started nicely, and the clover obtained a good catch.

## THE FOUR-HORSE AGE.

Editor "The Farmer's Advocate "The Oaks" we use four horses for a number o operations, and when purchasing new machines will ge
the large four-horse outfits. We now use the fout horses on cultivator, harrow, two-furrow plow, and sometimes roll and harrow at one operation, using three
sections of harrow, or just a little over the width of roller. With the two-furrow plow four acres a day can easily be overturned when the soil is in good con-
dition-not too hard and dry. dition-not too hard and dry.
We are at date of writing
We are at date of writing (June 22nd) breaking an alfalfa sod with four horses and a one-furrow sulky.
It takes lots of power for alfalla sod, a good new point and a heavy man on the plow, then it makes the
roots rip and crack; those not cut stick out of the inroots rip and crack; those not cut stick out of the in
verted sod like a lot of long rat tails. We intend putting wheat in this field, from which a nice crop o hay has just been harvested, and expect a good crop.
While driving through the country a few days ago While driving through the country a few days age
saw a man in a large field working one horse on a I saw a man in a large field working one discouraged or the work monotonous, as I am sure from the size of the field he could not go over it in less than from
a day and a half to two days. Surely the man and a day and a half to two days. Surely the man an
horse would think the tramp was endless. Had this horse would think thorse outfit, to cover the field would have been a small hall day's work, and he would hav
had a pleasant forenoon's drive (riding, of course) had a pleasant forenoon's drive (riding, of course)
Now, let us find out how many miles this man would Now, let us find out how many miles this man would
walk harrowing an 18 -acre fleld. A six-foot harrow would be about enough for the one horse, while a four-
horse team pulls an 18-foot harrow and cart. Suphorse team pulls an 18 -1oot harrow
posing the field is 60 rods long, the one horse and man would travel just 244 miles in harrowing; the four horses would travel 8 t miles. The number of turn
for the one-horse outft would be 132, and for the four for the one-horse outat would be 132, and for the four-
horse 44 times. horse 44 times. With reasonable
both outfits, it figures out an easy one-half day for tho four horses and man, and a good hard day and a half
for both man and horse of the one-horse rig. If time for both man and horse of the one-horse rik. If time
is of any value, and it is generally considered so, the is of any value, and it is generally considered so, the
man who drives a one-horse outfit in this age is losing days and dollars.
This is an age of advancement-the day of doing
gaged. The time when men could proftably spend their days of labor in walking after a one-horse or
ARTHUR L. CURRAF oxford Co., Ont

## ORANGE HAWKWEED

S. D. S., of Compton Co., Que., sends a plant for identification. This low-growing perennial noxious weed,
with simple erect stems one to. two feet high, with simple erect stems one to. two feet higg,
filled (when fresh) with bitter, millky sap, and bearing at the top a corymb of about a dozen handsome flower-heads, characterized by a fiery orange-red color, is the common pasture weed,
Orange Hawkweed, or Dovil's Paint-brush (HierOrange Hawkweed, or Devil's Paint-brush
acium aurantiacum, L.). It is abundant and very troublesome in the upland pastures of the Eastern Tawnships and in some parts of New Brunswick and Prince Edward Island, being occasionally reported from Ontaria and an and Eastern Provinces. It is propagated by seeds and
creeping stems. It is a vigorous grower, and matures a large number of small winged seeds, by means of which it overruns land that cannough a vigorous grower, it roots close to the surface, and, in arable land, plowing down and surface
cultivation will kill. it. Infested meadows should cultivation will kill. it. Infested meadows should
be broken up and put under a short rotation of crops. For pastures, where plowing is impraccrops. For pastures, where plowing is
ticable, broadcast dry salt over the patches so as to fall on the leaves of the plants at the rate on $1 \frac{1}{2}$ tons per acre (18 pounds improving the grass.

## ENCOURAGING THE BUMBLEBEES.

There has been for years a popular idea that the amount of clover seed in a locality depends upon the umber of old maids in the community. Without wishzens, the alleged connection they play in clover-seed production is that the favorite pat of the old mald is
Plenty of cats are supposed to mean sicarPhe cat. Plenty of cats are supposed to mean scarcity of mice, and scarcity of mice epells plenty of bum-
blebees, which are conceded to be instrumental in the ertilization of the red clover plant. It is a commonly accepted idea that plenty of bumblebeos means a good seem to have long enough tongues to extract the pioctar from the clover flower; consequently, they are the only ones that transfer the necessary pollen from one blos som to another. Every farmar knows that if he ham
any wool lying around where it can be found by bumany wool lying around where it can be found by
blebees there he is most likely to find a nest. Refuse wool, or even good wool this year-considering the price-might be placed in a piece of hollow rail, or a
ox could be made in any shape, like a rail or log. with an opening sufficient to allow of the free access o with in ond out, and wired to the wire or rail fence, as the case might be, around the claver rags would take the place of refuse wool if it weren't available. It might be argued that fleld mice could climb the fence and find the nests if they were fond of robbing the nests, but, as a matter of fact, they are sel-
dom seen off the ground, where they burrow in the long grass. It is questionable, too, whether field mice are so fond of honey or brood that they would go out
thair way to look for bees' nesti. Possibly the tiden their way to look for bees nests. Possibly the fation arises from the fact that frequently bumblebee neets are found in mouse nests or runs. There is no question, should be better educated. bout field mice bein Whatever the truth may be about field mice being
andebes, the writer believes, from our


A Four-horse Harrowing Outfit, in Oxford Co., Ont.
prosent knowledge of clover-seed production, it pays to and prevents her from dropping it into her own dung
cultivate the acquaintance of the bumblebees. In the or urine. The arrangement works well, end with some cultivate the acquaintance of the bumblebees. In the hollow rails and the stone piles, etc., the plan I have suggsasted is a feasible one, I beliieve. I may any,
homever, that the bumblebee theory of fertilization has however, that the bumblebee theory of fertilization has,
in my mind, lost its old-time force this yoar, so far in my mind, lost its old-ti.
Everservetion has gone.
Every of the apparent ab-
nence of the bumblebees this so feeson. I have seen or sonce of the bumblebees this season. I have seen or
heard very fow, and yet in examining some red clover
Aelds reantly field recently I have found abundance of seed in the
frat crop where the heads have turned a little brown. I have noticed the presence of some midge, yet it looks as though there would be plenty of seed in harvesting
the Arst crop of clover for the purpose of seed producthe first crop of clover for the purpose of seed produc-
tion this season. It would be well for farmers, in districts where the clover crop has not yet been harvested to examine into this question, as there is likely be abundance of hay in most parts, and some of the
first crop of red clover might make them more money if tept for seed. The weding out of noxious moeds should not be neglected, though, on any condition, if

HORSE MUZZLE
Editor "'The Farmer's Advocate": a design of a horse muzzle, to be used on horse in acuffing corn when it is tall, and when reaping grain. I eend description of one
which we find very suitable
Which we find very suitable.
Procure two strips of galvanized sheet iron at any hardware or tin shop, 4 inches wide and 2 ft .8 in . long; cross these in the middle and fasten with rivet; $1+$ in. wide and $2 \mathrm{ft}, 8$ in. long (a piece of old driving line will do) ; join the ends, and secure by a couple of rivots. Now bend up the ends of the strips, and slip
up the leather band into the turned-down edges; then up the leather band into the turned-down edges; then
put a rivet through each end to hold them in place. A couple of pieces of stout cord to tie the muzzle to the buckles on side of bridle will complete the outfit. It is light, cool, and in no way annoying to the horse.
The bottom of the muzzle should hang an inch or more The bottom of the muzzle should hang an inch or mo
below horse's lips. Simeo Co

## THE DAIRY

## DAIRY NOTES

Keeping a record of his cows mairy man of any farmer.
If a cow is to be kept clean the stall where she etands must not be too wide.
A good cow should hold out well. She should give a good flow ten months out of the twelve. Don't breed the cows to any sire that happen
available. Remember the bull is half the herd. The call is a baby. Too many farmers forget this and treat the calf as they do the older member Dairying is a science that is being more thoroughly studied to-day than ever before. It has in it a grea
deal more than most people dream. deal more than most people dream. eells crops of any kind has to wait until he can ma ket his product once a year. The dairyman has an
come nearly or quite fifty-two weeks in the year come nearly or quite fifty-two weeks in the year.
The care that the heifer gets the first few tim she is milked determines in a large measure whether she is going to enjoy the milking operation. The kick ing cow is not born-she is made that way by the owner or milker.
As soon as the calf will eat dry ground feed begin to feed a small quantity, and increase it as the call
grows in the power to consume and digest it. At this point one must use his judgment, and no rule can be given. beef steer.
Keep down the dust in the stable during the milking operation. producing power than to have eight cows of ordinary producing power.-[Exchange.

## A NOVEL DEVICE

In many byres, especiany those improperly designe more filth is probably conveyed to the body of the cow by her tail than by all other agencies, and from there
it is difficult to prevent it from getting into the milk. the Hollanders, in addition to the deep manure chanThe Hollanders, have adopted another precaution in order to ge rid of this source of contamination which deserves to
be referred to, writes John Speir, in the 1908 volume be referred to, writes John Speir, in the 1908 volume
of the Transactions of the Highland and Agricultural of the Transactions of the Highland and Agricutural fencing wire, runs along under the ceiling and abov the cows' tails, yet sufficiently high for the people to
walk under it. On this wire are a number of rings. walk under it. On this wire are a number of ring inch in diameter or so, correspo. After the cows are tied up in the stalls, a short leather strap is put on
the tail, where the long hair hegins to grow. This the tail, where the long hair hegins to grow. strap is

urine. The arrangement works well, and with some
odifications might with advantage be adopted in this ountry (Scotland).

## DAIRYING AS A BUSINESS

 Dairying is a cash business. The cow pays for herard every dey if she is the right kind, and in this connection the wise dairyman is particular to note is not butter and cheese are always cash products, and the dairyman is not obliged to wait six months or longer for returns from his effiorts; consequently, he runs no
bills of any kind. He sells for cash and buys for cash, and gets the benefits of all discounts. He always has money, and many dairymen pay their hired

If a dairyman is to know what each cow is producing, record cows. One cow has produced in a year over he must either churn the cream separately or test it, twenty-seven thousand pounds of milk, or, in round
and the test is far the easier and much more accurate, numbers. 2700 gallons, or 10.800 quarts nd what farmer can afford to keep cows and not know 10,800 quarts of milk, equal in food value to that their value for the dairy, from what shall he raise fine beef animal that would produce 10,800 exceedingly
calves will, perhaps, have an equal chance to live and eat up one year, or, indeed, in a lifetime it is when we the profit made by a good cow, and also perpetuate ducer the dairy cow is. Taking an ordinary cow giv-
her kind. The great trouble with dairying is, as with ing 7,000 pounds a year, this would be equal in food her kind. The great trouble with dairying is, as with ing 7,000 pounds a year, this would be equal in food
many other things connected with farming, we are too
value to $2,800 \mathrm{lbs}$. beef. Granting that the dairy cow apt to guess at results. We do not figure carefuly is a great producer of food, although we have no means enough. I know I do not in many instances, although in some things we try to arrive at practical conclu- devote to this production as compared with other ani-
sions. The average man is likely to think there is too mals, yet we can be sure that where so much is pro-
mole sions. The average man is likely to think there is too mals, yet we can be sure that where so much is pro-
much bother connected with estimating the cost of feed
duced she must draw on her vital energy to a confor each cow for him to consider the question seriously. siderable extent. We, therefore, see how necessary it
He will say you cannot do it. I do not pretend to say is if we want a large production to keep her in the that the farmer can estimate the cost of feed within highest degree of efficiency as regards vitality and
a cent or two, but he can get it close enough so that healthfulness. he knows whether his cows are making him a profit Not hy extra feeding alone at the time the cow is
or not, and whether one cow is better than another or producing so heavily can we make up to her for what not, and it is not so very much bother either. Sup- she is producink. She produces quite as much from the
pose a man is feeding clover hay to his cows. If he care and feed she has had at other times and all that feeds them carefully for several days he knows just has gone even from birth or even liefore to breed into day. He feeds just about the same amount after he arent work does not come through milking, but there cown heeds considerable more than another. Now, when are certain laws doworning it, which, although we can-
not understand thenn all, are there all the same, and this has been determined, weigh what each cow eats in we can but dum part in nssisting the cow to do
one day and multiply this by the number of days that her best. you feed clover hay. That will give, within a close most suitalle fieed to emable har to reach a high standIf you feed cornstalks or timothy, make the estimate Taking a wime of a modern dairy cow's graat proin the same way, and the same with corn silage. The duction from its actual food value we writ see how
do. Dairying is not a good business, however, for the man who likes to be away from home part of the time,
and who entrusts the management of his business in part to others. Dairying by proxy seldom proves satisfactory or remunerative, and men with many irons in the fire had better cut out dairying. They will do far better in some other line of live-stock farming that
does not require the constant watchfulness and personal supervision demanded by the cow and her produce Then, too, the by-product from the dairy has more value than that from other industries of the farm, and the skim wilk and buttermilk are fed on the farm There is no feeding value or fertility in butter worth considering, it is all in the skim milk, and this, when rightly used, brings good results in many ways. There
is no business of the farm that pays as well as dairyis no business of the farm that pays as well as dairy-
ing when right methods are in vogue in every detail of the business, and when the proprietor is wide awake and anxious to improve and take advantage of every
condition that promises improvement in cows, feed and condition that promises improvement in cows, feed and

 the products of milk, still the
prices are not as high as the
actual food value of the prodshould command. The scientists tell us that a quart of milk has as high a food
value as a pound of beefsteak. If a quart of milk would sell steak, then most any cow would be able to show a good producion, but she has to work under the discouragement of having her
produce sell for a great deal less produce sell ior a great woal wess
than it is worth, and we all
know that if a man is poorly
paid he usually does poor work, and also a good many do poor
work when they are well paid, mean, and if the consumers would only pay us for milk ac-
cording to its actual food value $s$ compared with beef, the cows
ould surely feel greatly ensurely feel greatly en-
couraged, and certainly the cow
wner would be cause the cow is the most eco-
nomical producer of food of any
animal known nimal known.
Let us compare the produc-
Half a Row at a Time-Slow Work
MODERN DAIRY COW.
Much has been said and written in regard to feed ing and caring for the dairy cow, and how important
it is that she get the very best of care. Perhaps this it is that she get the very best of care. Perhaps this
would be more impressed upon the general mind if we were to consider what an enormous producer she is then see that if progress be desired wo must treat the cow well and give her every chance to do her best. to the take the selling value of her produce is not fair real value . Wo sea things do not always sell for the of wheat bran. A few years ago millers, in order to get rid of it, burnt some of it in the furnace, and in wheat bran into the streams and let it float away That was because the feeding value of bran was not known and appreciated. This is changed now, and of the year hut sells for its full value at any time think solls for its full value, and sometimes, think, for a little more. The same way with milk.
Although prices have been steadily rising for milk and

Let us compare the produc-
 by the number of times you make the estimate again. this way, with very little trouble, and it can be done
thaty in the winter time largely, when one is not pressed
with other work, he can get an idea of the cost of keeping each cow. Then it he has weighed the milk and tested it for quality, he has data whereby he can distinguish between the poor cows and the good; be-
tween those which have brought him in a profit and tween those which have brought him in a profit and
those which have made a loss. I believe the most practical way to do this is to co-operate and organize cow-testing association in the neighborhood. $\qquad$
he will weigh it for one day he will know practically
the cost per cow. It is the same way with the grain the cost per cow. It not necessary to weigh the grain everyy
ration. It is neal
feed, when you foed as nearly the same amount as posfeed, when you foed as nearly the same amount as pos-
sible every time. Weigh it once, and then multiply by the number of times you feed. If you change the
further develop energy and vitality throughout her young have the power to produce as well as the inclinaWe will see further how absolutely necessary it too much, because there is a limit to the capacity of her stomach, and nothing is so unwise or more com-
pletely defeats the desired end than to feed the cow oo much, because the stomach if overloaded throws the whole system out of order, and she is practically like a person that is bilious and sick; her blood does not circulate as well, and her whole system is out of
tune. Since, then, there is such a decided limit to the
 cause them to do the whole amount of work, we should
feed her on food that is appetizing, palatable and easily digested. To give, in fact, a maximum amount of nourishment with a minimum amount of work for the stomach and system. and of them, but to show what a great producer the cow is, and how necessary it is that she receive good care
at all times, and every day of the year, if we desire at all times, and every day of the year, if we desire
the best results, because, if through lack of feed, owing to short pasture or any other cause, the cow does not get enough nourishment and has to draw upon her own system, as she will do, then, of Course, she depletes
her system and her strength, and is not so well fitted her system and her strength, and is not so well fitted
or work afterwards, and it may take a great deal of
 feeding and caring for a cow as well as we can, she
must still, if a heavy producer, be drawing on her system of the energy and vitality stored up while she has
been dry. If she has not been given good care when dry, so as to freshen in the pink of condition, full of en ergy and vitality, she will not be likely to do biz
work, but if she has been in that shape and is doing good work she will still be drawing on her own sys tem, and we will then see how necessary it is if we want her to do good work another year to give her
rest before starting the next year, to recuperate her system, which means that we should have a cow per system, which means that we shoud huve those two
fectly dry for two months, and during thos. months she should be well fed, not, perhaps, on such
high ration as in the heaviest production, but still high ration as in the heaviest production, For no feed do we get better pay than for the feed given to good dairy cow when she is dry, because that fee shows through the whole following period orr round when
There is no sense in milking a cow the year ron we can get more milk by milking her ten months of th year, and no cow could produce very heavily unless sh is well cared for and has a period of rest and recu
GEO. RICE.
peration.

## POULTRY

THE O. A. C. POULTRY DEPARTMENT Remodelling is the order of the day in the poultry deparrment at hold fifty per cent. more birds, by tear ing out the partitions that have heretofore divided each apartment into dining-room and bedroom-or, in oth words, scratching shed and roosking throughout, and Cement floors and walks are being laid tirought, an COLONY HOUSES-ALFALFA PASTURE-STANDARD AND UTILITY STRAINS.
. And what is the latest word about the colonyhouse system of handing "It's the only way to raise
Graham was asked. chickens if you want them good. Come out and also
field with me and I'll show you some chickens some alfalfa." There they were all provided wich
colony houses, spread out so as to afford as much range as possible on new ground. There were chicks of three distinct lines of breeding that made gome from interesting study in comparison.
Prof. Gowell's famous trap-nested $200-\mathrm{egg}$-per-annum strain. Precocious youngsters they were, but Away in color, showing a sublime contempt an there was, con-
Standard of Perfection. Another strain sisting of trap-nested stock bred at and Again, there
not so large, but much better in color. Agion were strains of Barred Rocks, bred for exhbe, but not poses, showing beautiful coleter pretension to egg-producing ancestry. The moral of it is that two or more excel
lences are difficult to combine in high degree in one and the same individual. While egg production and standard Cancy requirements are not diametrically opposs is
tendencies, yet if one is sought assiduously the other is liable to be sacrificed wholly or in part.
Then there was the alfalfa, sown this sown
ground behin Then there was the alfalfa, sown this spring
on a piece of gently - sloping ground be hind
othe shelter of an evergreen wind-break. About thirty-
five pounds of seed per acre was sown along with a five pounds of seed per acre was sown along with a
nurse crop of grain. The poultry ate the oats, and
threatened for a time to keep the alfalfa down, but it
got away from them, and now shows a beautiful thick got away from them, and now shows a beautiful thick
mat of green. Alfalfa makes grand chicken pasture. WHITE DIARRHEA.
What about white diarrhea? This Chinese puzzle Is still being conjured with, without any adequate con-
clusions yet as to its cause or means of prevention.

Zenoleum, when used in the incubator by poultrymen
feed on the interior of the plant, becoming fullccording to directions, seems to have given benefcial grown in August, and changing then to the chry results in about three-quarters of the cases, bu

## GARDEN 信 ORCHARD

BLACK-KNOT
Kindly give cause and remedy for black-knot or Ans.-The black-knot which occurs un both plum and cherry trees is caused by a fungo:1s dis
ease known to botanists as Plowrightia marbosa. This is spread from one tree to anothor by spores which are carried by the wind. When a spore finds lodgment upon a branch, and begins to de bark, it produces minute threads, which enter the work of fibres knowns as the mycelium of th fungus. This causes a swelling of the bark and wood, which forms the knot. During the earl lowish-brown mass upon the branch, which later develops a velvety outer coat, caused by the pro duction of summer spores. During the latter part color, and numerous winter spores are developed in small sack-like cavities, which rupture during the winter, and the spores are carried by the wind in spring. In this way, there is danger winter spores. The grubs which are often found in the inside of the knot are the larveo of various kinds of insects, which deposit their eggs in the
swelling, and find there a place for the develo ment of the larver. They are not the cause the knot, but merely make use of it as a place for rearing their young.
henever it appor the knot is to cut it ou nches below where it appears on the branch so as to remove all of the mycelium of elop Probably you may have noticed that cer tain varieties of plums and cherries are much more subject to the knot than others. Usually is those kinds of slower growth, or those which oost subject to the knot. Thorough spraying vith the Bordeau mixture will help ta prevent th wevelopment of spores which fall upon the trees but wherever the knot appears, the only remed.
is to cut it out and burn it. H. L. HUTT.

THE STALK BORER
young plant of corn was brought to "The Farmer's Advocate", a few days ago: it was one which had eaten the ends of the leaves, and was oncealed in the heart of to be a caterpillar of the common stalk-borer (Gortyna nitela). It is called " common," not so mucb for its abundance, but because it attacks a wild and cultivated. Among these may be mentioned potato, tomato, corn, spinach, dahlia, aster, lily, spireea, ragweed, cocklebur, milkweed, etc. The presence of the insect is usually made known by the withering of the leaves of of the above where it is feeding in the interior of the
stem, and also by round holes in the stem of potato, tomato, etc., and in the leaves of corn.
salis state. They are purplish-brown in color,
with a continuous white line down the middle of the back, and other white lines interrupted on he middle segments of the body; the head and following segment are broadly marked with white. The interruption of the lines in the The moth, which comes out in September, is dull gray in color, the inner two-thirds of the fore wings being much darker than the remainder, and separated by a conspicuous pale
As the caterpillar is an internal feeder, it is not easy to apply a remedy. In the case of potato and tomato plants, it may be killed by in ing of the burrow and slitting the stem upwards
till the worm 'is reached; but, with corn the onl till the worm is reached; but, with corn, the only plan seems to be to cut it out of the plants tha
are seen to be affected, or, if not very numerous, are seen to be affected, or, if not very numerous
to hoe them out and feed them to the stock. In any case, all the remains of the plant should be destroyed in the fall, and not left to serve a winter quarters for this and other noxious in sects till the spring.
O. A. College, Guelph.

## PLUM TREES SPLITTING

Plum trees split from the ground up to first
Tranches. The opening penetrates through bark into wood. Trees have borne fruit four or fiv years, and are well cultivated. Can anything be
done, or will it kill trees in time? done, or will it
P. E. Island
Ans.-The probable cause of the plum treem splitting is that the trees made strong growth during the season and grew rather late in the
autumn, so that when frost came the expansion the large amount of sap caused the explitting of the large amount of sap caused the sparature will cause trees to crack when they are gorged with sap. In the present instance, it is probable tha the trees will heal over. If the trees make very ping cultivation earlier in the season, so that th wood will be better ripened, and there will be relatively less amount of sap. W. T. MACOUN, Horticulturist.

Central Experimental Farm.
The Ontario Department of Agriculture has recently come into possession of Part 2 of an illustrated work on fruits, published in England over 200 years ago. The title page is missing, but a frontispiece is entitled as follows : "Flora, Flow ers, Fruicts, Beastes, drawne, with their true eter Stent at the White Horse in Guilt Spur Street, nere Newgate," pencil entry gives the author as John Rea, and the date 1665 or 1676 . Under the list of many sorts of the best apples to be planted at large in orchards is given the following Fithog Apple is the Fruit cometh out of the sides of the branch, and as big as a Pippin

WATCH BETTER THAN EXPECTED.
1 received the premium watch in due time, and than I hy pleased with it, as it is so myNotter than I had expected


THE FARM BULLETIN MORE REVELATIONS OF THE MILK SCALES Eden Bank, B. C., association for May had the rocord for 241 cows of an average production of 917 lbs. milk; 3.7 test; 34.1 lbs . fat. In each of the 20 herds some individual cows gave over $1,000 \mathrm{lbs}$. milk ing 3.2; 1,750 lbs., testing 3.5 , and $1,780 \mathrm{lbs}$. milk the 30 days. The best herd average was from a lot of 20 cows, yielding 1,284 lbs. milk; 3.4 test; 44 lbs,
fat. Such animals must be a pleasure to handle, a fat. Such animals must be a pleasure to handle, a
source of pride and satisfaction, as well as of good cash proft.
A good Ontario record for the same period is a the Central Smith association, where a herd of 20 co
averaged $1,096 \mathrm{lbs}$. milk; 3.2 test; 35 lbs. fat. The best cow in that herd gave $1,465 \mathrm{lbs}$ mill, testing 4.0 testing 3.2
A contrast to the above is at St. Antoine, Que for the same period, where 60 cows averaged only 65
lbs. milk; $\mathbf{3 . 8}$ test; 21.9 lbs. fat. The 60 cows gave lbs. milk; 3.8 test, 21.9 lbs. fat. The
total yield of $39,244 \mathrm{lbs}$. milk; $1,317 \mathrm{lbs}$. fat. If they had milked as well as the cows at Eden Bank, B. C they would have given an additional weight of actually
sixteen thousand pounds of milk and over seven huiv sixteen thousand pounds of mink and over month !
dred pounds of butter-fat during the one mont Are there not other places where there are still some poor cows left ? The poor cows are most quick
ly detected by systematic weighing and testing. ly detected by systematic weighing and testing.
Ottawa.

THE EXPERIMENTAL FARM AT LACOMBE, ALBERTA
Most of our readers are aware that the Do minion Department of Agriculture has, within th ast two or three years, two branch stations the sunny Province of Alberta, one at Lethbridge in the southern part of the Province, in the mids of the irrigation district, and another at Lacombe on the Calgary-am is now popularly known as Northern serve what is now popularly known as Norther portion of the Province; for it is only a matter
of a few years until another station will be called of a few years untily anotherthern part, up in the Peace River Valley or beyond. The Lethbridg farm is in charge of W. H. Fairfield, while th Superintendent at Lacombe is G. H. Hut ton, B. A. A., an yars ago from the Ontario Agr cultural College.
The farm is well situated three-quarters of mile south-west of Lacombe. It consists of on hundred and sixty acres of land, of which prac soil is a medium clay loam, running to sandy loam, rich, fertile and easily worked. The De partment of Agriculture secured possession of the
property in the winter of 1907 , and work began property in the winter of 1907, During last sumner, buildings were put up, the land laid out for future use as an experimental farm, and some buildings consist of a residence for the Superin tendent, a commodious frame house; a cottage for he farm hands, a horse barn 40 feet by 70 feet nd an implement shed. The manager's house tuated some distance back from rising graduall gary-to-Edmonton the huildings. A lawn an flower garden of several acres is being are area be
directly in front of the house, while the ar directly in front of the house, a field of fifteen o twenty acres, is being laid off for experimen
work in grasses. The experimental work with the cereal grains s, of course, the most important yet under thi branch. The work, in part, consists of variety branch. The determination of the most suitable cultural methods for producing the ordinary grains. Experiments, for example, ado to bes advantage, what dates of seeding give best re sults in yield and quality of product, and so on. All the ordinary field grains, winter
ye, spring wheat, oats, barley, peas, potatoes rye, spring wheat, oats,
and corn, are being grown in plots of one-
sixtieth of an acre each. In addition, some sixtieth of an acre each. In addition, some
larger areas of the leading varieties of wheat. larger areas of the leading varieties of wheat. oats and barley areses. likely be given purposes. good deal of attention will likely be give
A goo present to the growing of alfalfa an lover. One acre was sown to andalaly inoculated with after land had been thoroughty inocuat, alfalfa has been growing for some time, and th appearance of the alfalfa plot this spring woulc se a revelation to those who have the impression that this great fodder plant cannowing and vigor-
which ought to give a total of at least four tons which ought to give a total of at least four tons
from the acre. A few acres also were seeded down to red clover last spring. This is scarcely showing as much vigar and bottom as the alfalfa having been winter-killed to some extent, but it tended, when the alfalfa gets more thoroughly established, to supply farmers with soil from this field for the inoculation of their own lands with he alfalfa bacteria before seeding.
wing, both fruit and forest trees. A nursery has been arranged, in which several thousand trees of species adapted to the location have been set out, Manitoba maples, poplars, spruce, jack pine,
etc. The orchard that is being laid out is quite large, large at least for this part of the country Several hundred trees of the standard varieties have been planted this year in regular orchar
No feeding experiments have been undertaken as yet, but this line of work is clearly called for The results of feeding tests at Brandon, Man., last winter, and the interest which has bee
aroused in the results all through the West, in aroused in the results all through the West, in
dicate the need for much further experiment and demonstration, and the inauguration of such test at Lacombe would he welcomed by the stockme

## DEATH OF HON. THOMAS BALLANTYNE

## In the death of the Hon. Thomas Ballantyne, Stratford, Ontario, which took place on June 29th

 Stratford, Ontario, which took place on June 29th, atthe ripe age of 79 years, Canada has lost one of the the ripe age of 79 years, Canada has lost one of the

most stalwart friends of her agricultural and stock| raising industries. Born in the Town of Peebles, Scot- |
| :--- |
| land, in August. | land, in August, 1829, he was manager of a co-oper-

ative ative store at Innerlaithen, at the age of 21 years.
In 1852 he came to Canada with his father and mother


The late Hon. Thomas Ballantyne
following two older brothers who had taken up land in the Township of Downie, in Perth County, where Thomas taught school for several years. In 1856 he married
Mary, daughter of Rovert Ballantyne, of Downie, and a fine family of seven sons and one daughter were born
to them, all of whom survive them, Mrs. Ballantyne to them, all of whom survive them, Mrs. Ballantyne
having died in 1902. After his marriage Mr. Ballanhaving died in 1902 . After his marriage Mr. Ballan-
tyne commenced farming on a property adjoining the tyne commenced farming on a property adjoining the
farm now owned by Hon. Nelson Monteith, Minister of Agriculture for Ontario. He quickly saw the oppor-
tunities for dairying in this Province, and, starting a
chences factory at cheese factory at Black Creek, he soon began dealing
in cheese and shipping for export to British commission
houses in cheese and shipping for export in this enterprise, he
houses. Meeting with success in
niade it his main object thereafter to improve the qualmade it his main object thereafter to improve the qual-
ity of the dairy products of the Province, and to
develop the system of co-operative dairying, which has develop the system of co-operative dairying, which has
added so greatly to the prosperity and wealth of the
farmers of wide sections of the Province, wery much of farmers of wide sections of the Province, viry much of
which is due to his good judguent, indomitalle persmverance and personal liberality in expenditure of ti.ue,
means and influence in aiding an industry in which his faith was unfailing. Largely through his influence and efforts, he saw the cheese factories, of Canada increas."
from a few to about a thousand, most of which are managed by farmers themselves. In 1867 he attented
the first dairy convention in the Province, and was
olected elected $n$ director, and was sulsequently, nine times

Honorary President. Mr. Ballantyne was for many years a breeder of pure-bred stock, first establishing a herd of Ayrshires
His public wor His public work began as Clerk of the Township
Downie, of which he was later elected Reeve. He wa frrst elected to the Ontario Legislature in 1873, for the riding of South Perth, and sat continuously till 1895 Speaker of the House, and was the first to preside ove the Legislature in the new Parliament Buildings in Queen's Park, Toronto. "As Speaker," remarks Co
Clark, Clerk of the Assembly; in his "' Clark, Clerk of the Assembly, in his "Sixty Years in
Upper Canada," ". partisan feeling never entered into his decisions, which were always arrived at with caution." An excellent conversationalist, speaking as
aptly in a public assembly as when at his fireside it aptly in a public assembly as when at his fireside, it
is declared he possessed an excellent repertory is declared he possessed an exc
tical and general information.

ENGLISH VS. CANADIAN FARM-LABOR CON

## DITIONS.

I have been in this country able months, and I find it is a common idea amongst Canadians that Englishmen are not used to hard arm. was t anything but farming and I would like say, through your valuable paper, that I prefer vorking in Canada rather than in England. It s all very well for a Canadian to say that an English farmer employs two men and a boy on a 50 -acre farm. If he were there, taking the place of one of these men, he wouldn't think it any too
many. He must not forget that an English farmer doesn't do any work, or, at least, the majority of them, and that all the grain is sowed in rows about eight inches apart, and that has hedge fences, and they have to be clipped every year, and there are ditches up the side of nearly every fence, and they have to be cleaned out every we don't get much of in great deal of work which the parts of England which are well populatedand that's nearly all of it-the farmers never board the men, as they always board and sleep from two to four miles to work, they have to carry their food with them. They have to get to work at 6 a. m., and they get half an hour at 9 a. m. to get a lunch, and then they get an
hour at noon for the dinner, which they have had with them since the dinner, which they have had the morning. They then work till half-past five or six $p$. m.,. and have to walk back to their homes before they get their supper. To get a unknown thing to many of them, and after they have got through these little trials, and handled at least twice the crop that we get in this coun ©3,50 per week, with the privilege of paying for their board, bed and washing out of that; or, i married, keep up a home, and support a wife and
family. I would advise all those who think we family. I would advise all those who think we ton work in the Old Country to take a trip over
and be convinced. They'll find no snap when
thev when there What dons farm they yr there What does a farm laborer get in
Canada? If he is a good, honest man, he is
sure of a good situation, plenty of good food, and sure of a grood situation, plenty of good food, and
good bed and good wages, and not too
much work; because a Canedial do the work, therefore he knows how hation
much a man can do, and how much he can expect from
you. I teell you it's a pleasure to work on a
farm hore after working on a farm in England. I think most people who know the conditions of farm life will agree with me that the English who have come from farms are well acquainted with the rolgh and-tumble "f a farm. I would not
say as much for them from the cities, for every
parson knows that it por the knows.s that it is otherwise. Ities, for every aken hy almost ,.iery farmer in this district. Ontario Co. IOnt.

FAIR DATES FOR 1908
July
July
July
suly 21 ar 21h - Brandun.

THE FARMER'S ADVOCATE.
the ontario natural - SCIENCE buLLETIN
 the student of biology, containing between its bright red covers
$A$
special feature this year is a full and systematic A speen by Dr. C. S. Sargent on the Crategus (a genus
articlenter comprising the thorns and haws) in Ontario.
af plants
 gent,
regions in the world. Mr. John Dearness, Vice-Prin-
cipal of the Normal School, Londton, contributes an 3 3 embraces the class of plants cor y desienated mushIar differentiation hetween these beeng inaccurate, un-
scientific and erroneous. The index also includes the
and Kollowing names. W. And W. Herriatt. The letterpress
Klugh, Theo. Holm, and
refeocts credit upon the printers, The London Printing and Lithographing Company, of London, Ont., who are eshes nature with accuracy and dispatch
The Wellington Field Naturalists' Club is a most praise $\begin{aligned} & \text { orthy organization, founded in Guelph, Ont,y, in } \\ & \text { March, } 1900 \text {, its object being to further biological re- }\end{aligned}$ March,
search in the Province. During these eipht years much
and valuable work has been accomplishnd hy the members,
both as individuals in the field and as a mociety in the Cortnightly meetings held throughout the winter months, while the publication or them recognized authoritios in
well as many articles
trom
rect netural history outside the bounds of the club, con-
stitute no small part of the good done. One line of work of collecting in the less-known orders of plants and
that
compiling complete and annotated lists of the spocies ompwn to ocur in any locality, thereby seuring in-
known
nomation as to their occurrence and peorraphical Cormation as the same has been done with birds, mammals ${ }^{\text {range. }}$ and other animals. The editor of the bulletin, in his foreword, refers
with pleasure to such kindred organizations as the Ottawa Naturalists' Club, the Queen's SUiversity Naturalists' Club, the Canadian Institute the Dafierin
County Natural History Association, and others, and would like to see such clubs organized in every town
in Ontario, especially the High School town. The editor's address is. T. D. Jarvis, B.S.A.... A.
(uelph, and communications or innuiries looking he organization of such clubs would undoubtedi)

Change in management of maritime win.
TER FAIR

him in his work. To enable them to do this, the
Federal Department has increased its annual grant to \$2,400, the Nova Scotian Department raises its annual $\$ 400$ while thi New Brunswick grant remains at $\$ 800$. Mr. F. L. Fuller, Superintendent of Agricultural Socie
ties ties for Nova Scotia, was mado Secretary-Traeaururer of
the Association and Manager of the Maritime winter Foir, and will conduct the business of the association,
Exeent in tair time tre S . The appoint ing of an auditor was left with the Board of Directors. The new Board of Directors elected is as rollows, Fo
New Brunswick-Col. H. Montgomery Campbell, Apo haqui; Bliss M. Fawcett, Sackville; M. H. Parlee, Apohaqui, and Geo. E. Fisher, Charlot tetown. For Prince
Edward Island-Rev. A. E. Burke, Aberton, Hont F. Edward Island-Rev, A. E. Burke, Sor charlotetown,
L. Haszard, Charlottetown; Jas. Roper Con L. Haszard, Charlotecown
and John Annear, Lower Montague. For Nova Sootia

- W. W. Black, Amherst; C. A. Archibald, Truro; R. S Starr, Port Williams, and S. A. Logan, Truro, Tho
representatives to the fair boards were elcocted as fol
 ward Island-Thos. P. Cass, Cornwall, and John Roper dent a subsequent meeting of the Board the Presi-


 Scona, . . A. Archibald, Truro. The date Nove Mart
time Winter Fair for 1908 was fixed at Nov 30 th
bein being advanced somewhat trom previous yea-
it convenient for $P$. E. Islanders to attend.

FRUIT-CROP PROSPECTS
Weather Conditions.-The weather conditions through out the Dominion for the past month have been gener
ally favorable for ally favorable for fruit. The first three weeks werg occasional showers after the 20 th have prevented seri ous injury, except that the samples of strawberries
some cases are not so large as usual. Light frosts on the 15 th did only a very slight damage. Nova scoti able weather. In British Columbla, though the weather Was cool and wet till the early part of June, condi-
tions were not seriously affected. During the latter tions were not seriously affected. During the latter
part of the month the temperature has been higher, part of the month the temperature has been higher
with occasional showers. Apples.-Prospects are not so good this month as
last. The "set" of fruit was not as good as was exlast.
pected, and the dry waither has probably increased the
June "/ drop." A fair estimate of the present condi June "drop." A fair estimate of er abe
tions would be an average or slightly above the average crop of early and fall apples, with winter apples
somewhat below a medium crop. The districts producsomewhat below a medium crop. The districts prod the
ing the larger quantity of fruit in Ontario, such as the countes rather a light crop of winter apples. Speaking generally for the whole apple belt, Spies, Baldwins and Kings will be light or very light; Rup
sets a medium crop; Ben Davis nearly a full crop Greenings a medium crop; the Fameuse above the average almost everywhere, and at least an average
of fairly clean, good-sized fruit in the Ottawa and St. Lawrence Valleys In Nova Scotia the prospects for the apple crop as
whole are particularly good, this being a bearing a whole are particularly good. this being a bearing
year for the Gravenstein. There are no unfavorahle year for the Bratish Columbia, the prospects showing
conditions in Brite
a medium crop. a medium crop
Pears and
Pears and Plums.-The prospects for pears and
plums are only medium. Bartletts and Kieffers nave the best showing.
Peaches.--Early varieties will be fairly abundant. somewhat above the average, Alexander, Early Rivers
crop. In the early varieties, Alexal crop. In the early varieties, Alexath, crops. of the
and Triumph are reported bearing full crone and Triumph are
latter varieties, St. John will he only a medium crop,
the Early Crawford light. Smocks and Elthertas show the Early Crawford light, Smocks. The Fibertas are
for something over a medium crop. hearing heavily where they were sprayed a very light
those not sprayed have in many cases a ver crop. ${ }_{\text {Tomatoes.-The prospects for tomatoes are excel- }}^{\text {That }}$
lent. Should there be plenty of moisture during July, lent. Should there
there seems nothing in the way of a full crop this
year. year. Cherries,-Sweet cherries somewhat scarce; bour
cherries more plentiful. Cherries more plentiful. well and promise a full crop.
Grapes. - Grapes look wits a moderate amount of rain
Small Fruits. With a moun Small Fruits.- likely give a large cron. The condi-
small fruits will liverable over all the fruit-producing sections are so favorable over all the fruit-producing sec-
tions that the aggregate of the crop will likely be very large.
Insects. - Insects are not more prevalent than at this
俍 time last year, and fungous diseases are not specially
in evidence. Up to the present time inost injury has
Uhen done by the cigar-case bearer, the bud moth, canker worm, green-fruit worm and oyster-shell bark-
louse. Foreign Crop Conditions.- The very generally distrit-
s
have only an average crop. but ver
uted over the applegrowing districts. The prospects
und Ited over the apple-growing districts. The prospect
for stock suitahle for marketing during the winter mont ha would indicate about an average crop or some-
the fruit crop generally, are particularly good, and there are no
the Continent. Chief, Fruit Division, Ottawa

NOVA SCOTIA'S TIMBER RESOURCES.
At a recent meeting of the Lumbermen's Association of Nova Scotia, at Liverpool, N.S., President F. C.
Whitman estimated the forest lands of the Province at 5,803,350 acres, of which 1,469,750 acres are Crown
lands. Nova Scotia is most fortunately situated as Lands. Nova Scotia is not only in respect to transoceanic shipping facilities, but in the humidity of her climate, which enables the lumberman to take a crop in a generation and find another one growing. With the alleged probability of a continontal timber famine
in twenty years, the Peninsular Province should ronin twenty years, the Peninsular Province should ron-
sider herself blessed indeed. Mr. Whitman htghly commended the forest-ranging system in force, which has been effective in preventing forest fires, the total yearly
cost being only about $\$ 6,000$, or 90 cents per square cost being only about a Provincial forest survey, or
mile. He recommended a stock-taking of timber resources, with
adoption of a wise policy for the future.
Lieut.-Governor Fraser said that of all things grown Lieut.-Governor Fraser said that of and animals, and then lumber. The latter is more necessary than minerals. We should have stability of title and should pre-
serve and conserve the forests. The man who will serve and conserve the forests. a fre is practically a
carelessly or negligently set criminal, adding: "If we preserve our forests we have in Nova Scotia sources of continuous wealth for many generations. Continuity of operations in anychar
the better way. It tends to the building of character the better way. It
as well as business.

## DEATH OF F. C. PETTIT

In er Burgessville ontario, which took place on June sth, oxford Oounty has lost one of its most prominent stock-breeders Pettit, in partnership shorthorn cattle for about twenty ears, they were very successful as exhibitors at local fairs, and were always noted for their honest and up night dealing, as well as advanced methodartorn cattle was at a low ebb, they decided to change breeds, substituting Holstein-Friesian cattle as their choice, a they were in a dairy county. About this time the ns F. C it \& Son, which continued for the last five years. In this breed they have been very succoss ful, and prominently known to readers of "The FarmProvince to the other Mr. Pettit was born and died on the same farm, having spent sixty years out of sixty-five on the farm. The farm has been continually to the Pettit family since 1889, and has now paemation, the only son of the late F . C Pettit, F. E. Pettit, who intends to continue farming

## TORONTO'S HORSE PARADE

The annual Dominion Day open air horse parad and show was held in Quen's Park, eroronto, kind in the Queen City since the inception of these shows, over 800 horses being paraded and judged for prizes. The entries were 24 ahead of any previous year, and the horses an improvement. over the display of former
years, which has always been of a high order of merit. years, which has always been of a high the horses on exhibition was put by the judges at an average of each, or a total of a quarter of a million dollars. Of the 800 horses in the procession there was not
an inferior one. From the heavy teams attached to an inferior one. From the heavy teame attached
ponderous drays, down to the sleek ponies ridden by young and ambitious equestrlans, there was not a
foulty animal in the whole lot. Fach driver, as usual, faulty animal in the whole lot. Fach driver, as usual, received a dollar, whist the medals astrout on the $\$$ prizewinners

## IRRIGATION EXPERIENCE REQUESTED.

Could you dive me the address of some farmer, or
farmers. who have irrigation working satisfactorily on their farm or farms? I am thinking of putting in a plant, and before doing so would like to see how it there is in it. Would water from a deep well be just as good as water taken from a river or lake? |Note.-" The Farmer's Advocate " will be pleased 1. publish any reliable experience with irrigation under Cnnadian or foreign farm condion and operation, together with impartial estimate of capital cost and operating expenses, advantages and profit, are invited.-Editor.]
A Nova Scotia correspondent reports that many archardists in the Annapolis Valley region have been
havang a torrible fight with the canker worm, adding,
however, that in their own thirty-acre orchard they ave no caterpillars at all, having sprayed it faithfully have no caterpilnal
with Paris green.

## A Money Magnot <br> One advantage to you of a Savings Account at The Bank of Toronto is that it draws to itself many odd sums of money that can easily be spared, and your balance <br> Another advantage i that these sums become money producers for you through the interest earned <br> And your money in this Bank will be safe. <br> BANK OF TORONTO INGORPORATED 1855. SETS $\quad-\quad-\quad \$ 37,000,000$

MARKETS.
TORONTO
Live Stock.
The receipts of live-stock last week a the City and Union Stock-yards were
large, 282 carloads all told, composed of 4,684 cattle, 3,947 hogs. 2,317 sheep and lambs, 650 calves and 124 horses
The quality of fat cattle, considering the large run, was better than was antici-
pated, although there was a large number of cattle that ought to have been weeks on pasture for a month or six
Trade was good all week ior finished cattle at unchanged quota-
tions, but unfinished grassers sold at for the previous week. At West Toronto on July 6th, re
ceipts of cattle were 1,721: trade dull prices 50 c . to 80 c . per cwt . lower. Ex.
port sters. $\$ 5.50$ to $\$ 5.80$ export hulls $\$ 4.25$ to $\$ 5 ;$ picked butchers', $\$ 5.25$ to
$\$ 5.50 ;$ good, $\$ 4.80$ to $\$ 5.10 ;$ medium
$\$ 4.30$ to $\$ 4.60 ;$ col $\$ 3$. $\$ 4.30$ to $\$ 4.60$ common, $\$ 3.50$ to $\$ 4$;
cows, $\$ 2.50$ to $\$ 4 ;$ milkers, $\$ 30$ to $\$ 50$; $8+\mathrm{c}$. per lb . Hogs-Selects, $\$ 6.75$, fed
and watered; $\$ 6.50$ f.o.b. cars points.
Week at $\$ 6$ to $\$ 6.60$ per cwt suld las
with it
vetra choice loads at $\$ 6.75$; export bull old at $\$ 4.50$ to $\$ 5.25$. and five extral
fine bulls were reported at $\$ 5.75$ per Butchers'.- Prime stall-fed butchers
 grassers. $\$ 4.75$ to $\$ 5.15 ;$ common, $\$ 4.51$
0 o $\$ 4.75 ;$ cows, $\$ 2.50$ to $\$ 4$ with a few
oery choice finished cows at $\$ 4.15$ to
 leren from 25 c . to 60 c . per cwt.
Stockers and Feeders. -Trade in stock ors and reeders was dull, Stockers, 50
 3.25 to $\$ 4$ per cw .
Milkers and Springers.-Business in thi department excepting hoicest quality he drift of the market For several week lower level, and it now heen toward
takes a ver re quotable at $\$ 60$, but not many hav
old over $\$ 50$, and the bulk of the busi
oss has been done at $\$ 35$ to $\$ 45$ cach Nss has been done at $\$ 35$ to $\$ 45$ each
ith common light cows selling at $\$ 220$ \$30. and some as low as \$15.


ents; seconds being $\$ 5.50$. Ontario $\$ 4.40$ to $\$ 4.50$.
Millieed.-The market for bran wa
easier, while that for shorts held easier, while that for shorts held stead
Some quote Manitoba bran as low Some qute, Ma bags; others repeating
$\$ 21$ per ton, in
$\$ 22$ to $\$ 23$. Shorts held at $\$ 25$. Om$\$ 22$ to $\$ 23$. Shorts held at $\$ 25$. On
tario bran, $\$ 19.50$ to $\$ 20$, and shorts $\$ 24.50$ to $\$ 25$.
Hay. - No. 1 timothy, $\$ 11.50$ to $\$ 12$. carloads, on track, No. 2 being $\$ 9$
$\$ 10$; clover, mixed, at $\$ 8$ to $\$ 8.50$ $\$ 10$; clover. mixed, at $\$ 8$ to $\$ 8.50$,
clover. to $\$ 7.50$.
Woo. $\xrightarrow{\text { thing new }}$
Dealers at 17 c .., f.o.b., country points; brushed
being 19c. to 21 c . Canadian : Canadian fleace the grease, 12
Hides. - The
being still dull. The outlook ho chang was rather more hopeful, leather havin advanced slightly. No. 1 hides, 5 c .; N 2, 6c.; No. $3,7 \mathrm{c}$. . No. 2 calfskins, 11 c ,
No. $1,13 \mathrm{c}$, 1 lambskins, 10 c e each; sheep80c. each.

CHEESE BOARD PRICES
Brockville, Ont., 11 fc c. bid; no sales,
Belleville, Ont, 11 tc. to $119-16 \mathrm{cc}$. Stir-
 istowel, Vankleek Hill, Ont., 11 1 curb one factory sold at 11 tc. Napanee
Ont., 11 t . Victoriaville, Que. Russell, Ont., 11 fc . Ottawa, Ont.
$119-18 \mathrm{c}$. to 11 fc . Picton, Ont., 11 kc Madoc, Ont., 11 ( $7-16 \mathrm{cc}$ Perth, Ont.
11tc. Cornwall, Ont., 11 tc. Kempt
ville.
 1 -16c. Canton, N. Y., butter 2as

## CHICAGO.


\$5.15.
Hogs. -Choice heavy, shipping, $\$ 6.65$ to mixed, $\$ 6.25$ to $\$ 6.40$; choice, light
$\$ 6.40$ to 86.60 ; packing, $\$ 5.25$ to $\$ 6.40$ Sheep and Lambs.-Sheep. $\$ 3.75$

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BRITISH CATTLE MARKET
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## TRADE TOPIC

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antiofuntation.
IContributions on all subjects of popu-
lar interest are always
welcome in this - Two men have labored fruitlessly and exerted themselves to no purpose. One is the man who has the other is he who has acquired knowledge, hut has failed to practice it. "-[Sa'di.

| From the busy fields of farmer-folk, It starts on its winding way, Goes over the hill, and across the brook, Where the minnows love to play ; Then past the mill with its water-wheel, And the pond that shows the sky ; And up to the bridge by the village store, And the church, with its spire so high. <br> You would never think that the country road, <br> From the hill to the store, could be So long to a boy with an errand to do And another boy to see. <br> You can never dream how short it is <br> From the farm to the old mill pond, Nor how very much farther it always is To the schoolhouse just beyond. <br> Oh, the country road! at the farther end It runs up hill and down, <br> Away from the woods and the rippling brook, <br> To the toiling, rushing town. <br> But, best of all, when you're tired and sick <br> Of the noisy haunts of men, <br> If you follow it back, it will lead you home <br> To the woods and fields again. |
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PEOPLE, BOOKS AND DOINGS. Lord Roberts, the Commander-ina telegram announcing his intention of coming to Quebec to The Chinese Anti-opium League, of Sritish Columbia, has sent a petition rohibit the manufacture, sale, or importation of opium into Canada. A delegation of prominent Japanese
will
start in August on a tour
to "ill start in August on a dour
Through Canada, the United States
and Europe, to inspect the Houses of and Europe, to inspect the Houses of Parliament in those countries, in lor the new House of Parliament to A collection of Burns' manuscripts, among which was the well-known " A chiel's amang you taking notes. went for only £150 at a sale in It the same sale, the manuscript or


## OUR MISTAKES

We are at times inclined to curse our minstakes, but it is our foal
propensity to ado great many fool
ish things. Among the most foolish ish things. Among the most foolish
is not grumbling and grovelling abou is not grumbling and grovelting atou the worst? Should we not rather
rise, like Anteus, with new vigor rise,
from each experience? No man of
woman voluntarily makes a mistake woman voluntarily makes a mistake, and no will sit about crying over spilled milk. The truly noble will
the rather clench his fists, set his the rather clench his fists, set his
teeth and go forth determined t teeth awn the misfortune which h has brought upon himself; and, in so doing will he gather strength an
confidence, aye, and power, which confidence, aye, and power, which 1 ,
a very different thing from mere
$\qquad$
$\qquad$
right-doing, and forget them; let us vitation (you have no manners if you
learn one by a bitter experience, and do so, be you who you may, uninlearn one by a bitter experience, and do so, be you who you "ray, ", or or
we will not again trip into that pit- vited), and enters the well. Verily there is compensation general room. He is got up regard-
less of expense, as far as his own (in all things. worrying are those which put between
us and our friends. We blunder, are us and our friends. We blunder, are
misunderstood, pride steps in, and the mischief is done. But should such a concition of affairs ever be
permitted to stand? It is not, after all, so very hard to say, "I was mistaken ; forgive me ?" - not nearly so hard as to go through a lifetime
of difference. Lapses should be guarded against with all one's might, gut should one occur, it is well to re-
member that, after all, a mistake is member that, after all, a mistake is
only a mistake. If yours, seek reparation ; if another's, remember to deal as you would be dealt
Be not too rigidly censorious,
$\qquad$
$\qquad$
I would - not quarrel with a slight mis-
SOME NOTES FROM MY OLD LOG, IN SOUTH AFRICA.
A DUTCH COURTSHIP AND WED-
." I wish you could have seen
Dutch wedding whilst you were Dutch wedding whilst you were in
Pretoria," was once remarked to us. Pretoria," was once remarked to us.
As we did not, I must tell what As told us of the manners and cus toms there anent: "First catch your hare," applies as aptly to the pre-
liminary step in matrimony as it does to its ditto in cookery. But after what a dull, prosaic, dead-alive fashion does a young. Boer maiden
enter the toils ! have been a Dutch changeling, or Sir Walter Scott might have visited South Africa in his dreams, otherwise, how could he have pictured
such a suitor? Fancy its being possuch a suitor for to he a matter of uncertainty, amidst a bevy of sisters, un$t_{1} 1$ the very handkerchier is thrown of the swain's adoration! Yet such is the case usually, and it is harrowing to think of the pangs which might thus be caused to six, or more
maiden hearts, if each should have maiden hearts, ing unction to her soul that she, and she alone, was the Lodestar of love-sick "Pieter's"
dreams.
Not being a Mormon. "" Pieter ". (it saves an initial, and Pieter will serve our purpose as well
as any other name) must choose one; as any other name) must choose one, knows but that the cunning fellow has long made up his mind which sister he shall ask to become his vrow? His caution and pride alike ater antil he and his family have some assurance that she and her family are pretty safe to come to terms.
Pieter is very young, but that is no Pieter is very young, but that is no
obstacle to his success. Pieter is obshacul; and if he were not, it is ordeal enough to render him so when he actual moment has arrived for him to make his proposals in form and in person; for, I need not say that, if getting a wife depended
upon Pieter's writing a love letter, upon Pieter's writing a love letter
he would undoubtedly end his days a bachelor. Arrived at the house of his father-in-law-to-be, if fortune
favors him, he "off-saddles ", by in-
general room. He of expense, as far his own
less of
clothes and his animal's accoutrements re concerned, and somewhat sheepshly he goes through the usual does he not, contrive to convey by that dumb magic, which can make even a hand-clasp eloquent, the whole tale of his hopes to the maiden he
desires to win presently ? Deponent sayeth not, and the chances are that Pieter feels too many eyes upon him to risk even the little bit of comfort
that tender finger-questioning might hat tender finger-questioning might
procure. Then pity our poor Pieter arocure. Then pits patiently until bedtime comes, often not uttering a syllable, and then only to reply to questions
apart as the poles from the object of apart as the poles from the object of
his visit. But, supper and prayers over, he knows it must be now or never with him. If he is invited to
remain, he is sure of the consent of the father and the mother ; and here let me wenture this little remark: woman's rights have never been agitated for or against in South Africa,
that I know of: but this is probably because women have so full a share permitted them. No Dutch husband dreams of deciding anything in mat-
ters of business, or which can in the remotest degree affect the welfare of his family, without consulting his wife; and he thus realizes the truth of another good old adage, "Tw
heads are better than one." " Pieter, asked to remain, then takes the first step permitted him. He has managed to fors of the living-room (in a large Boer house there may be four or five) leads to that which she occupies. There he stands, or sits sit upon, until she passes in. "Now for it, Pieter ; pluck up your cour age, faint heart never won fai bolder front than you have been able to wear for these last few weary hours.'
A whisper, and kind of a struggle "no ". ${ }^{\text {is }}$ no strughe is so at all, and that it will do just as well, and our Pieter has won the day; no, not
the day, for it is night, and the question which he has asked, and which, after all, is equal to the
question of questions, is whether she will " sit up and keep company with him!'" If she has consented to do this, she "has vircually consented they both shall live. There is a primitive simplicity about this which robs sensitive nerves of any tenderly-nutured, duly-chaperoned young lady in this our land, where "such things sure her that our young folks have nothings unheard, than any nineteen out of twenty engaged couples here, where more outward fences bristle
around to guard them from the faintest appearance of even a harmless indiscretion. Pieter is human ; so, given the opportunity, he would Giretchen would probably like him to kiss her, too ; why shouldn't she ? disappointed sisters gigles of the five ha!" in sardonic tones of the one
who really for a while did think Pieter had peeped out of the corners
of his eyes at her more frequently than he ought to have done consistently with his not choosing her after all, to the downright, not-to-bethe youngest of all, to whom the whole thing is simply a good joke, out of which she at least will take
her share of fun. The high, raftered roof is a rare conveyer of sound therefore, oh! Pieter, and oh! Gretchen,

$$
\begin{gathered}
\text { at all. } \\
\text { Piete }
\end{gathered}
$$

are not ended $y$ the here, as in more civilized lands, the bridegroom has the worst of it this be, I wonder? Their wedding day has come, and there is much to be done before they subside into the private, humdrum, every-day life which lies before them, back in the
old home-her home, for Pieter's wife takes him, not he her, to the old roof-tree, which might be made of India rubber, so unlimited are its powers of expansion.
start housekeeping for themselves. not they'! Their flocks and their herds, the produce of the small num ber of young ewes, heifers, etc.
branded with the special mark o each in their babyhood, are now joint property, and it is only when their riches increase with these that at last they may, as comparatively
middle-aged folks, with olive branches many, move off into a homestead of their own.
something About the wedWe will fancy the ". Dorp town, where the ceremony is to be
performed by their Dutch minister performed by their Dutch minister,
or Predikant, to be Pretoria. According to the distance they live from the capital, have they taken from road, their "royal" road to matrimony.
Arrived in the Plass, or square, in
which their church is its nent, but by no means most beauti-
ful object, the wedding party outspan, sending their oxen to graz outside the town, tended by a Kaffir
herdsman, while they prepare for the great event which has brought them so far. The bride arrays herself, as a bride is bound to do, veil, orange
blossoms, and all but, beyond these, blossoms, and all ; but, beyond these, chases by way of trousseau. Pieter, poor soul, hires his wedding garments, and a pain and a weariness of
the flesh are they to him. He is the flesh are they to him. He
only thankful to know that as long as Gretchen lives he need never, no,
never, suffer such discomfort more never, suffer such dien, of course, she hopes she will not, why then,
know-. A Dutch widower considers three or four months a long and tedious time of mourning. What bethelpmeet whom he has really loved and faithfully cherished after his stolid way for years than to replace her a
soon as possible? Look at our himself in the glass, did he posse one, and it is on the cards that hy may,", stovepipe, or whatever the covering, of which our civilized na tions have never got the better,
crowns him. His unaccustomed fec are stuffed into stifff, shiny-leather boots, instead of his dear or horm" manufacture ; his hands into gloves and the rest of his body is coth coat white waistcoat, and trousers of " size so accommodating that if the
be hired by a lean man of ordinar height, he must put up with the bagginess and take a reef in tha a bigger man than he may wear then too if so disposed. The ceremony exhibit themselves to an admiring world in their new characters as man and wife $\quad$ rm-in-arm they parad through the principal streets of the
the Almighty Maker of the Universe Supposing we were to go into the har
vest field and look carefully at a selfbinder at work. See how perfectly it
does its work; how every part is there for a special purpose; why, it is a per-
fect marvel of ingenuity ! what would you say if a clever, educated man were
to come along and say that that machine to come along and say that that machine
evolved; that it simply grew out of evolved; that it simply grew out of
nothing ? Would you not tell him that the self-binder was the invention of clever mechanics, who spent a great amount of
time and thought in bringing it to its time and thought in bringing
present state of perfection? present state of perfection ?
Now, just so, I examine this beautiful
world we live in and see how, wonderful-
ly it is made, and how, for, so far as we know, nearly 6,000 years it has re
volved in space, making the diurnal and annual revolutions with the greatest accuracy without ever failing. what is its motive power? It moves through
space without ever colliding with any of space without ever colliding with any of
the other very many stars and planets and is never behind time. Is this not
really wonderful? Why, then, there really wonderful? Why, then, there
must be some great power to run it. Is not this power derived from the Great
Maker? I think so. Then look at the world, how wonderfully it is made and fitted up for man's comfort and con-
venience. There are salt, coal, coil, stones, water, etc., etc., in the earth for man's use. Then look at all the and mals and trees and plants growing for
man's use and convenience. Do you think man's use and convenience. Do you think
these grew out of nothing? No, my friend, they were all made and planned hy an all-wise beneficent Creator for man's
use and benefit. Is it not a shame that use and benefit. Is it not a shame that
there should be some men so ungrateful as to try to deny the very existence of our kind Heavenly Father? Then look at our hodies, how wonder-
fully they are made; how the brain is fully they are made; how the brain is
made to think and the hand to act. The ear, how about its minute mechanism?
Did it grow out of nothing? I firmly Did it grow out of nothing? I firmly
believe that our bodies are the most bolieve that our hodies are the most
wonderful product of the work of the Great Creator, and show His great wis-
dom and power. The self-binder was the product of a great many minds, each improving upon the ideas of his predeces-
sor, but God made man at first without sory experimenting, mand how first warvellous
any
our hodies nre our bodies are: I think everyone should
read Dr. Mary Wood Allen's book on the read Dr. Mary Wood Allen's book on the
'Marvels or our Bodily Dwelling." Well
and truly did the Psalmist say. .ut am and truly did the Psalmist say, "I am fearfully and wonderfully made.
Farmers. of all classes, should be firm lelievers in the Great God, who made
all things, as we see His handiwork in all things, as we see His handiwork in
nature all around us; in the beautiful
flowers and shrubs and trees flowers and shrubs and trees. There is
a prodigality of beauty in the flower

No wonder that when God finished the
reation He said that it was all ver Electricity is a wonderful God has created, and see how whany thousands of years before man got to understand how to hitch it up, as
were, for his own use, and I believe th vere, for his own use, and I believe t has yet to learn of the Great Creat power and love, and of what He has pro vided for man's comfort and convenience and should not our souls and all that
is within us be stirred up to bless and magnity the Lord for all His goodness and love toward us. We must not for
get that when God made man he was get that when God made man he was
free from sin, and God gave him a free ree from sin, and God gave him a free
will to choose between good and evil. will to choose between good and evil.
and he voluntarily chose the evil ; and hen God showed His great love toward uan by providing a Saviour and opening power. DAVID LAWRENCE.
I thank both our correspondents I thank both our correspondents for
their kind words of encouragement, and
Glady tive space for the able words in yladly give space for the able words in
defence of our faith. In these days, hen the old-fashioned faith seems childwell to remind them occasionally that belief is sometimes difficult, unbelief is infinitely more diffcult. This little world peated over and over again in wonderful sameness, and yet with endless variety. How any sane person can believe that
the miracles we see in every garden every miracles of ge see in every garden, in
grain or vegetables, every farmyard or forest-not to speak of the crowning marvel of the human bodycame into existence accidentally, must be -redulous indeed. If each of these mira-
fles occurred only once it would be incredible enough, but when it is repeated over and over again-the same miracle and yet never quite the same (as it is
said that no tree has two leaves alike although they are all of the same pat. ern-the mystery is infinitely greater. And yet I don't believe souls often find are useful to strengthen Faith's assurance. The heart of man is hungry for God's love, though often the man himself has no idea of the meaning of his there certainly is a loving and holy God does not satisfy that hunger. Some of our readers may possibly be trembling longing for a gleam of light, feeling that hey would pive anything to have the Introubled faith of childhood back again. We are nll religious at heart. A man
may lauph to scorn the idea of a future
life. but Gor knows how to teach him
and hope that is isk us. with meekness
Now, then, let ws look at the


## TWO MONTHS PACKED FULL OF DOLLAR-SAVING CHANCES.

August Furniture and Midsummer Sales Combited In One Midsummer Bale Gatalogue. AUGUST FURNITURE SALE CATALOGUE WILL NOT BE ISSUED.

Thousands of home-owners Canada over look forward from year to year to our Midsummer and August Furniture Sales as great money savers in supplying their every home need. This year these two value-giving events are combined in one, and our expert buyers and immense factories have specially collected and manufactured everything that is newest, best and most desirable in novelty and staple lines, and we have marked them at the very lowest prices for which trustworthy qualities can be sold.
gigantig preprations have been unoer way for moiths past to make this the greitiest mIISUMMEE SILE III OUR HISTORY.

If we couldn't show you price reason distinctly out of the ordinary for buying every Summer need now and here, the object of this Midsummer Sale would be of no account. But we can. We do!

AND REMEMBER, everything we sell is backed up by our Great Lilberal Guarantee; if goods are unsatisfactory in either quality or price, we will exchange or refund your money, and pay all transportation charges both ways.

## Have You Received a Copy of Our New Midsummer Sale Catalogue?

Send us your name and address on a postal, and this 24-page Money Saver, beautifully illustrated, will be sent you FREE. This Catalogue tells of worth-while reductions, not only on wearing apparel for men and women, but on house decorations, home furnishings, fancywork, and soforth.

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"T. EATON C TORONTO,


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Is: You keep cows for proft,
and in order to get the
best
results you must use Uream Separator. We have a
madine diferent in ite construotion from that of any other, and
wa ollaim that difference makes we olaim that difference make8
the MAGNET much more desirable for you to buy.
The points of difference are
It has a atand strong and rigid

- The gears are what is known as
" Square Gearr."
The bowl has a double eupport,
which keeps it in belance.
Which keeps it in balanco
A perfect ball race (no friction)
A skimmer in one piece; easy
to clean.
A obild can turn it. Send for
bearings made of br
The MAGNET brake circles
the bowl, and stops it in eigh
seconds
$\underset{\substack{\text { We will gladly show you our } \\ \text { machinine at your dairy. }}}{ }$
The Petrie Mfg. Co., Limited Hamilton. Winnipeg. St. John. Regina. Calgary. Vancouver.
$\left\lvert\, \begin{aligned} & \text { an only and dearly-loved child, or a wife } \\ & \text { who may be doerer still. Will be laug }\end{aligned}\right.$ who may be dairar stit. Wha then ? haugh
at the hope held out to him then
those who Those who have not found od them-
selves may sometimes imagien that no selves may sometimes imagine that no
one elise can really be sure that Ho is
near;; so I hasten to muke that point one rise can hasten to make that point
near; so 1 Ihaug our taith may sometimes
clear. waver and grow dim, until, like our
Master on the Cross, we feel
God-to saken, these eare only occasional dark
hours sauen, whese are hard to believe that
hours, when it it
the sun of Righteousness is shining be be hind the clouds which hide Him from
our sight.
But in the glad everyday of our sight. But in the glad everyatay of
lifo we walk in the glorious condinco of
dialight. even when we rare not connciousdaylight, even when we are not conscious
ly thinking of our sun. He is our ly thinking of our Sun. He is our
Light, and we know it well; know it so well that wo would not exchange that light for any earthly glitter. God most
certainly
does fulfil the promise certainly does fulfilt the promise e kil "II
any man will do His will he shall know
of the doctrine, whether it be of God." any man will do His win he shan Gno."
oo the doctrine, whether it be of Got."
You seo the offer is not restricted to fow tavored individuals; it says ". any
 and as diffcult-for an ignorant man as
for a man of. science. Have you set Tor aman or science. Have you seil,
yourself, with the e tull power of your will,
to do the things and think the thoughts to do the things and think the thoughts
that you know are right and true? Then walk straight ahead, and in God'rs good
time you shall know." The surest cure
tion for doubt is active service, combined
with clean hands and a pure heart. Obey God, and the darkness of doubt will
surely fade away hive for Him and you
will learn to love Him.
Hope.


## The Young People's

 Department.Foung calves kicaning up that heale every Whero. Dear me, I cant't begin to toll You how iovely ot all lookd son me apple blossoms, and heard the robins and
orioles bedtime singing their last songs before myself, but 1 spared the other people who had to walk on the same road, and waited to tell you about it. So, here buttermilk beside me, with glass of fresh of a very blue sky, with a good view
two great fir trees against it, apple trees in front of shad, a little cal? lying down in the picking insects off a spruce bush all covered with new green shoots. Of
course, I know I shall not like the coun-
ry so well cry so well on a wet day; but it is the wet days that make everything so green
besides making the fine days seem sunnier besides making the fine days seem sumnier
by contrast. What a pity it is that girls have to spend so much time in the
house! But, still, there is time when house! But, still, there is time when
you are out peeling the potatoes, darning the stockings under a shady dree, to look up and wonder how the sky
can be so blue, and be glad you haven't o do your daily work in a hot factory,
with a buzzing machine to listen to in is much easier pleasant country sounds. It happy, as you can wee by the way feel firds keep on singing as they fly about poet Busily. I don't know whether the expect he really enjoyed getting up early
on a bright apring morning and going on a bright spring morning and going
out into the fields. He saw all kinds of
lovely things that thound lovely things that thousands of boys never see as they trudge along with their eyes
on the furrow, wishing the day's work were over. Everyday beauties are gener-
ally the last ones we ever notice
THE
THE FORGET-ME-NOT.

It's said that ages long ago, when God had formed the earth and heaven,
He called the flowers one by one unti TAll letters for Young People's De
partment must be addressed to Co Cousin Dorothy, 52 Victor Ave., Toronto.]
THE EVERYDAY BEAUTIES.
I can't help thinking that country I can't help thinking that country
people don't often see how perfectly love-
ly the country is. I may be mistaken,
becouse peonle don't always say what ly the country is. I may be mistaken,
because people don't always say what
they think, and, of course, it would be
very tiresome if everybody went alout very tiresome if everybody went aloout
exclaiming "How lovely it is! " all day
 I have come to look at it for a few
weeks. I am not going to say I wish I
lived in the country. because being a
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ to all sweet names He'd given;
To one, pure Lily, other Rose, another
Violet. or Daigy Violet, or Daisy fair, to wear anew its Father's care.
But, oh! one day, a tiny flower, with pale blue eye and little tear. .
Came back to Himm, and said, Came back to Him, and said, "Dear
Lord, I've forgotten quite my name Then, looking down upon the flower
which trembling stood with hended
 get-Me-not," He gently said. "For Refrain your tongue from backbiting for there is no word so secret that shal
go for naught, and the mouth that be
lieth. IN HER OWN COUNTRY

THE DANGER OF PROCRASTINA TION

$\qquad$
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 him wondrous kind, and he felt an irre-
pressible longing to claspp her to his
heart there and then heart there and then. This. it may be
perceived, was neither the time nor the perceived, was neither the time nor the
place, so he ompromised by whispering
Diene Kate, meet me by the bridge to morrow nimhtat seven." And she con-
ented, with one of those looks that sented, with one of those looks that
speak more eloquently than words.
At seven the next evening Jack began At seven the next evening, Jack began,
hastily to hunt for his collar buttons

 it off.
And, at eight, Kate came running down
the road, flushed as usual, and threw
herself into his armis. Unfortunately for
 was exactly one hour late : But so
she has put of naming the day.

## POWER LOT

A Story of "Down Last." by sarah molian criene.

CHAPTER XI.-Continued.
ting on all right with-Mary, he
moaned, slowlyt. She did not want
me to love her, but I was geting
 ground hiseat it by the Almighty, liv-
for I swear
ing or dying, hope or no hope. I'II
never touch that sturf again; not if never touch that sturf again, not no
nhey get on their knees to me not.
if I die wanting it-and so 1 swear.," He clenched his fists and jows with
he reviving obstinacy of some anestor whose own will had been his
aw who, having chosen some path
ansting all vain desire aside, would casting all vain desire aside, wount
die, but would not yield his purpose. He saw Bate, over in ene trete,
though not at worke He was siting
on the fence, thoughtfully turning his regard from the crows near at hand
to the flock of sea gulls in the dis-
The fact that he was not at ance. The fact that he was not at
work and something in his general
wort sent home to Rob the thought aspect, sent home to Rob the thought
hat it was sunday
In the tumultuous expler ren forgotten. Cuby who
hours he had ond all
semi-occasionally dressed beyond hall sene rural brightness of the River
the
girls, and sat fearlesssly on one of the
lat back seats of the Bapust churche
CCuby had forgoten, to. As for
Gar', he frenuently sneaked off with Gar' he frequently sieased on qood,
his team, when usiness wa gund
to make a haul of wood on Sunday
The first thought that came to Rob to make a haul of wood on Sunday.
The first thought that came to Rob
was that he was glad he had for was that he was plah his escap from mobilization for navel mane anves of
all the Pritish warships availabe or immediate action took place. The
the River.
nrearily, punctiliously, he took off flet consisted of 301 ships, manned so full a flow of liquid delight among
the revelers at the River caused these reports to vary in particulars. That
Rob had drunk freely and had married Cuby, none disputed. Captain Belcher, having been informed by the astidious master or the-cruiser which hat he had made himself criminally fiable by his adventure as a welder
wedlock bonds, took a fancy to of wedlock bonds, took a fancy to
redit the statement, and now discredit the statement, and now dis-
owned the deed as proudly and busteringly as he had, in fact, committed it, referring the act to its proper perpetrator, the Justice of the Peace;
he, jealous of his office, and knowing his own frailties, though somewhat
wondering, consented that he was indeed the man
Wherefore, for Captain Belcher had a stout influence, the Justice of the ing, and in most instances honestly believed, and it was this that had come to Mary's ears. had been her mother's. The bed had been removed, and the place very neatly transformed into a sitting room, and Mary, her morning work
done, was there reading.
Rob knocked Rob knocked. Mary came to the
door and opened it. She did not indoor and opened it. She did not in-
vite him to sit down ; she awaited what he had to say. ${ }^{\text {a }}$. mured. His look was the most desolate she had ever seen in all her life
his lips were shrivelled and cracked. "Yes, I know," she answered. Thes put the hellish drink before me," he went, on ; "the girl hersell offered 't th "' "On go on," said Mary, wearily, the
but yourselfe."
Rob gasped.
" We cannot fence you round with a special environment and with "per
fect conditions," she said. "The world is full of pithalls and tempta-
tions ; if you cannot avoid and re tions ; if you cannot avoid and re
sist them, what is the use? I do not see any help for it." " So you think there is no help for

## Current Events.

As a result of floods in southern China, thousands of people are home

Two hundred miners were killed by an explosion in a mine at Yusovo

The Canadian Northern Railway extension from Parry Sound to Sud Several deaths have occurred i New York City recently, as a result According to recent statistics, 62
persons were killed by automobiles persons were
Massachusetts during the last twelve
months.

Eighty were killed and man
wounded in a recent wounded in a recent battle betwee
the troops of the Shah and those o the revolutionists, at Tabriz, Persia

The greatest fleet ever assembled in the world was to be seen last week
in the North Sea, where the annual all the Rritish warships available for
immediate action took place. The
Hept consisted of 301 ships, manned

"that the poor men usually give larger
tips than the rich men?" "Well, suh."
said the waiter. 'de de' man don' want
nobody to fin' out he's po, an' de rich
man don't want nobody to fin' out he's been married to Cuby
The general exhilaration incident to

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The Canada Business College at Chat tation for itself, and in its splendid ne better work than ever young men women contemplating a business course
should look up the advertisement of thi the catalogue, which explains more fully their terms and plans.
The youth who was smoking a cigar other one from mis pocket. "Would an-
do any harm," he asked. "fier him one" of these?"", "Not a should
responded the attenden touch it. A monkey isn't hall as big a
fool as it looks."


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terot youd Also the quarter-mile traek for showing
and exeroising.
end exeroiming. HERBERT EMITH, MANAGER. (Late Grand's Repository.)

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Imported $\begin{aligned} & \text { I have still on hand } 1 \text { stallion, bleck, rising 4, by Car } \\ & \text { thusion, di Toronto winner; } 11 \text { ribing } 2 \text { yrs, by Baron't }\end{aligned}$
 these ing an extra good animal, and T. D. Elllott, Bolton, Ont

QUESTIONS AND ANSWERS Miscellaneous.



THE FARMER'S ADVOCATE FASHIONS


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8 to 14 years.

The Ingle Nook.

Dear Chatterers, -Will someone please
send a recipe for pickling walnuts, also tell when is the right time to gather a reader of "'the advocate." York Co., Ont
The walnuts should be picked after
hey are perfectly formed, but while they hey are perfectly formed, but while they
are still soft enough to pierce with a nedle. Shell 50 walnuts, scald them,
a nd rub off the outside skin. Put in $n$ and rub off the outside skin. Pat in $n$
Ptrong brine for six days, changing the strong brine for six days, changing the
water every other day. drain, wipe and
pierce with a targe needle. Take oz. each of ground pepper and ginger, \& oz. each of ground cloves, mace and nutmeg, one
tablespoonful whole mustard seed, then put the nuts in jars, sprinkling the dry pice between each layer. Boil vinegar 5 minutes and fill the jars full to over-
fowing with the hot vinegar and sedl fowing
securely.

Would you kindly inform us how to
drive away ants from places where atables are kept.
To Destroy Ants:-If possible G. S. hole whence they get into the house, and pour boiling water down it, and
wash all places where they abound with fairly strong solution of carbolic acid,
obacco-water, quassia chips or bitter tobacco-water, quassia chips or bitter
aloes. Another way is to place small
songes in their haunts wet, and dipped nto sugar or honey; take these out at ntervals and wash in boiling water. If
$t$ can be done safely, put some quickime at the mouth of the nest and wash
it in with boiling water. It is very it in with boiling water. It is very
difficult to eradicate these little pests, and they mast be fought persistently, tidiness and cleanliness of pantries and
kitchen ands dislike any strong smell. kitchen. Ants dislike any strong smell,
hence the efficacy of carbolic acid. etc. ence the efficacy of carbolic acid, etc.
t is said that by drawing a circle of
halk round chatk round a dish contain
black ants may be kept from

```
Canning Green Peas
```

Kindly inform me the best way of can- ning green peas for winter use.
Wellington Co., ont.
READER. Thoroughly sterilize the sealers as fol-
ows: Wash thoroughly, then put in a kettle of cold water and let come to a
boil, and boil several minutes. The tops and rims should be put in the water, as
well as the sealers. Have the peas, Which shou!d bealers. very youve the peas, een dippled in boiling water; put on the lids dipped in boiling water; put on the
lids loosely, place again in the boiling "ater and boil three hours. Enough sal
"o flavor may be added. A wash boil
" ith a woden rack, or with plenty
newspapers new a woden rack, or with plenty of
newspapers placed about the sealers, will
1,e found very convenient when canning
irmit or wegetables. When the conoking


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## A Trip to Muskoka



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POWER LOT
What do you think? In such a
Cse as this, Robert Hilton, I believe ase as this, Robert Hilton, I believe
would think tor myselt, and right

 ${ }^{\text {I }}$ d 1 not understand you ") said that $I$ could buy "I wish," said Mary-for sho
thought that Rob was more deeply hought that Rob was more depply
mplicated than he actually was, and oo she had no mercy- I wish that
 Hed hier eves. Stugrearee, have never wronged Cuby", Rob faced her witt
tern dignity and royal laith at last
 agec ceremony. 1 slept, drunk, all "You had promised to marry her. I I-I thought she took it in fun.
I meant it in fun-that is, of course,
 "Evidently she took it seriously nd-you promised her, and -you hav married her. A promise and its ful-
filment. I see no way but to make the best of it. . . way of of the win
Rob tooked away out Tow his haggard face and quivering archind town, whid Mary as she
curned to her seat by the table, eurned to her seat by the table,
esting her head on her armi her ow, ace was sorrowful
Rob sat down, weakly, as though Rob sat down, weakly, as though
oo health or strength remained in ${ }^{\text {im }}$. Well, $\mathrm{I}^{\prime} \mathrm{m}$ done for,", he said.

 very full.", She whosi tone was
usually eleetric with meaning and de
 to fearful of wounding
tied from the very depths.
"That means," she sighed, "you havent the consurage to get up atter a
fall, to win out, oco cimb up to gain your own self-respect first of all. I
wondered if you would have the courage. I knew-you had-considerable ourage : I wondered if you would
have-such courage." Rob sat a while, silent, his head ing to bring him no exaltation.
" The road looks devilish steep," he said at last, grinding his teeth,
and looking up with only remorse and
$\qquad$ tinued angrily. 't I don't love her,
really-and she doesn't honestly and realy-and for me. She-I have al-
truly care for
ways seen it-she bridles and blushes wait all her soul when Captain Jim
with
Turbine comes in sight. But she thinks. she money some time. Cuby
may have mone to
thinks I may be able to take her to gay cities and all that sort of thing,
some time. Anyway, I can't go
down there, down to the River, to
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$ It seemeim had never heen so con-
toward him
siderate, so almost confidential, as
rice ran on at last, so kindly
". The steepest hills are sometimes,
ut only with pain, persistence and
but it might be. I believe I would
trust to it. I believe with all my trust to it. I believe w
soul it would prove true. In such a tone, a mother, free of speak to a crushed and bleeding child. It was tragic, to Rob; but, still it
was sweet; any tenderness from her was sweet; any tenderness from her
was unutterably sweet. And if, like a child, he might have put his head down on her breast, just that once, just for one moment, and felt her hand on his forehead, he be-
lieved that he could go forward, lieved that
marry
Cuby, raise his family, hoe potatoes, to the last earthly sunset, and then knock with square shoulders
at the gates of heaven as a faithful at the gates of heaven as a
husbandman and householder.
That memory was not to be his. Her dark eyes pitied his weakness, with' a weary sigh. with a weary sigh.
He went to his own the bed, and slept with the heavy re action of one, who, from a vista of majestic battles and bays of victory,
suddenly turns to find that he has nothing to live for.
He did not hear the call to dinner. "At it ag'in, up in his room, I
s'pose," said Bate to Mary "brought 'pose," said Bate to Mary, brought bottle home with him, probly. gave a bound of relief' in spite of herself, when Rob came down in the
early evening scrupulously dressed for early evening scrupulously dressed for
" Sunday," penitent and resigned, his eyes slightly dazed at the new, hard future which faced him with the stupendous mushroom growth of a single
night. "Goin" down to take yer wife to meetin'?" Bate inquired, in a tone of
unusual jocularity. unusual , jocularity. have been hard to pick a fight with
him. In heart of hearts he was going
down to the Baptist meeting-house to hear Mary sing. It was the Mary affliated herself with the River so far as to go down to sing with
and for them on these occasions, just an in old times. "Special request", as in old times. "Special request" times, and she complied, meekly, re-
ligiously. It was about the only time one ever saw her meek. When she shone, and her voice thrilled you
and sent light into the souls of the spiritually dim of vision, then it was that she was meek; and it was worth going to see and hear.
face of the gaping villagers, with Cuby showily hanging onto hhis arm.
Verily, Rob's heart was safe broken. Verily, Rob's heart was safe broken.
"Say, what was yer maiden name afore ye got married, Daisy ?" he heard an envious youth taunt hin
from among the group which be Prom among the group, which be
sieged the door. Rob's polished
cleor clean-shaven face did not change, any
more than if he had not heard the insult; it did not touch him. Noth ing mattered much. It mattered t
Cuby. She sprang deftly aside and dealt that wicked one a ringing box on the ear with the palm of her
pretty hand.
" Mind your own business," she admonished him, with finality. Cuby
was immensely admired and re spected among the River boys, an
he of the aggressive speech melted o he of the aggressive speech melted o
the instant into abashed retreat. Mary sat with the " choir " on the
rude platform, and sang with them, rude platiorm, and sang with them
entirely patient of the nasal or strident voices which accompanied her
Rob thought her voice. as compare with others, like a white-winged boat sailing a clear, straight path through a choppy sea. He waited until the
drastic office of the general hubbub drastic office of the general hubbu
should cease, and he should hear he vaice alone.
"Miss Stingaree is ' specially re quested,' to know if she will sing
'Peace, be still,' " announced official Iy the salubrious tones of Captain Belcher. Stingaree sang, and the Gali-
Miss St or other every poor human soul there present, fell ahushed and wondering
at her voice :


Mr. Alfred Brown, of Merriton, Ont, says:- "For six years I have
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"'Peace, be still ; peace, be still.' He could not look at her-he dared not, so full was his heart. "" Come een, Meester Hilton," said
Gar', more respectfully at the door Gar', more respectfully at the door
whither Rob had escorted Cuby ; "come een, have leetle 'musement eh ? Sure, that ees tam good way, and he winked suggestively of a re
cruited jug. cruited jug
" No,"
yonder, ready for my work in the morning.". He turned suddenly to
Cuby. Cuby. "I will work for our home
with all my might, little girl," he with
said.
Cuby nodded assent, but she was distinctly weary of Rob. His easy
smiles, his ready laughter with its smiles, his ready laughter, with its
complement of glittering white teeth, the accustomed swagger of his gaitall these amiable qualities seemed to have left him, as if some mysterious
wand of hate had touched and wand of hate had touched and
changed him in an hour mio the changed him in an
form of withering eld.
" "You act funnee," she adjured him.
'" You act lak' you was walkin'
'round in you' sleep, lak' you was in round in you sleep, lak you was in
your baid asleep." She tried the effect of her own merry laugh. Rob smiled wanly; but it seemed
to him, as he climbed the hill. that to him, as he climbed the hill, that
her words were not inapt. To his own soul, he seemed to be walking in own soul
his sleep

CHAPTER XII.
The Fight With Beasts.
The slow Leevya Potter had sailed
ofi at last with her cargo of wood. In the faithful processes of time she returned, like the proverbial bad penny,
to her native shore-the signal for a gala night among the rum-loving of the River.
Both Cuby and her father counted upon this as a means of rallying Rob
once more. The vain girl y. once more. The vain girl, ignorant
and impetuous as she was innocent. and impetuous as she was innocent,
instead of congratulating herself on
his sustained habit of temperance his sustained habit of temperance
and condoning his moods of sorrow
ful dignity ful dignity, was alert with suspicion;
and for very pride's sake, in the face of her small world, would rather have The "Hill" was all too plainly the
haven where he would be. He worked haven where he would be. He worked
doggedly and unfalteringly; his calls

passion of mortification and disap pointment. "Look here, Cuby," said Bate once an acknowledged suitor for he hand who had been despised for the sake of the fair-haired Rob, 'look
here, Ma'y ain't no witch. witches that I know of, but it ain' her."
He
He winked at her as he met her eye, with an assumption of the old
time license to render her her due admiration.
Rob marched on up the hill; and ( he had now no bewildered sense of
walking in his sleep. His spirit walking in his sleep. His spirit was afire, his soul was resalute. Once
he paused in exultation, and shook his fist in the direction of the low orgies at the River. ". You did not trap me this time, bear-and the bear did not care the d-n for it, did he? You baited up your old hooks-and the fish swum met your man, now, you devils, we'll have it out. You'll find what I'm made of. You'll find whether blood-the good blood-the higg the -that runs in my veins-you blood my grandfather, my father, would have looked at you as all of a mess
with the dirt under their with the dirt under their feet."
Rob's nostrils quivered Rob's nostrils quivered, his head
towered high, he scarcely felt the
tedium of the ascent again to climb ascent as he turned summit, looking seaward. The mon the had risen, and the holy splendor of
the world beat in awesomely upon his consciousness. in awesomely upon
" Say, it's wonderful, just living up hey, it's wonderful, just living, and looking 'round. Just living enough, up here, by Jove." The night was by far too glorious was dark, Mary, calling on house the neighbors, probably. on some of
Rob, hight of heart, feared nothing. The sense was upon him that he could march precipice, scathless.
There must be a superb at Spook House ' to-night,", he
murmured. "I'l1, go over there and ake a peek at it."
Through ditch and brush and along the edge of ledges he made his way,
for he was unfamiliar with the trail
known known to the natives, along which
only once Cuby had directed his
steps steps when, absorbed in her pretty
merriment, he had gone with her House. the "knockin's" at Spook There had dwelt at one time at
Power Lot and the River a purely
English element, so far inspired by Engish element, so far inspired by
religious and msthetic sense as to
rear a little church on the command rear a little church on the command-
ing pinnacle toward which Rob was vorshipers expatriate in this strange land-had long since ceased to assemble at any earthly summons,
though the bell in the old steeple though the bell in the old steeple
called weirdly for them on certain
nights when the wind was high. And there were some who waid they And the aisles of the crazy old, church , other congregation had gathered r many a long year. Only the
velorn, for lack of any more cheer stomed to wander thither were ac h. "Shates of evening to e. whatever single item of ${ }^{8}$

Biliousness.
Liver Complaint
If your tongue is costed, your oyes yellow, your complexion sallow; if you have eirculation, a pain under the right shouldor, or alternate costivenoss and diarrhcea, floating apeoks before the oyes,
Your Liver Is Not In Order All the troubles and diveases which come in the train of a disordered liver, suoh as Jaundioo, Chronic Constipation, Catarrh oto, may be quickly and easily oured by

## MILEURN'S LAXA-LIVER PILLS

Mr. S. Gingerich, Zurioh, Ont, writes:-
had maffered for plaint, and althorgh I tried many medicines I eould not get rid of it. Seeing
Milburn's Laxa-Liver Pills advertised I Milburn's Laxa-Liver Pills advertised
docided to try them, and atter using them
four montha I wam oompletely curod. 25 conte a rial or 5 . for $\$ 1.00$, at all doalers, or mailed direct on rocaipt of
prico by The T. Milburn Con Ltd., prioe by The

## CATTLE STANCHIONB!

There are many kinds offering, but only one Handy Stanchlon. It is giving
ontire satisfaction in every detail, and ontire satisfaction in every detail, and
ahonld replace all other kinds, as in saving of time it saves its oost annually. It secumes or releases the full row (or part of
fow) instantly, one or more separately, or row) instantly, one or more separately, or
retains any when releasing. A ohild oan operate it without going near the cattle.
A wise precaution in oase of fire. Illustrated A wise pre
ciroulars.
royal grafton, Mt. Charles, Ont.
Brown Swiss Cattle FRENOH-OANADIAN HORBEE.

 o. E. STANDISH. Ayor's OIIT P. O.

## Herefords , Mokiowe


Glengore $\begin{gathered}40 \text { head of the Mayflower and } \\ \text { Fair Lady tribes. For sale: }\end{gathered}$ Angerus. bulls, from 5 mos. to to years of

ABERDEEN - ANGUS
 - ELMFHR Aberdeen- suFfoLK DOWN Angus if you reauire either of these Cattle James Bowman,Elm Park, Guol ph
TWO IMPORTED BULLS

 srin Sie., O. P. P. R. saie: 10 Shorthorn Bulle from 10 to 18 months old, sired by Imp. Lord
Roseberry, and most of them out of imp. cows.
Pricestis. R. Mitchell \& Sons, SCOTCH SHORTHORNS
 Mi Rire
NKIN dame
yovale stans

 SUBSCRIBE FOR "THE FARMER'S ADVOCATE AND HOME MAGAZINE.

THE FARMER'S ADVOCATE.
make straightway for the front for himself, but he is not a man at all,
the sublinity of the sea view.
But he heard the low murmur of into your head? put Ruch a thought
Rob ! why, he does But he heard the low murmur of
voices, and before the traditions concerning Spook House could pierce his recognized Mary Stingaree's voice. Amaze and curiosity held him still.
Standing on a bank of underbrush, he could look through the yawning
windows to those that were also paneless, yawning gulf on the other side. There, outside the church,
leaning against the rotten windowsill, stood Mary and myself-Jim him, our view was to the sea. A sudden mad jealousy seized Rob, to
whom I had been an object quite outside the pale of any serious friend-
ship with a woman like Mary Stingaree.
" Well," I said to Mary, unaware of my smouldering audience at the
rear of the church, "if you wish, I'll go down to the River and see what I
can do to get Rob and Bate away can do to get, Rob and Bate away
irom Tee-bo's." "They both went down there," she
answered. "Virginia told me." She gets all the gossip, voluntarily ren-
dered through Mrs. Treet." "At the house I hardly, felt in-
clined to bother with 'em," I said clined to bother with 'em," I said;
" but when you look off here, things sequence get up and sing inside man as though they demanded to be
heard before other things. That is all the way I can put it.
". My ' brother
ou would go. Did I take an unfair advantage," she added, half smiling, " in bringing you here, on the way
to look off over sea and land? Shall you go down the footpath of the
ledges, Jim? I'll go back home alone, and I shall think of you-with more gratitude-than can
speak-every step of the way."
She was eager to have me go She was eager to have me gone. on
never yet had stumbled by lucl on
any romantic situation with Mary, but that the summons came to me
rom some quarter or other to go of Straightway and risk my neck some-
where for the sake of other folks Still, I made easy of the fatality, only a few moments.
" You can easily manage to get rapidly; " you can easily persuade him ! but Bate, in spite of his degra
dation, is a man in determination "ou know," "Rob threw Tee-bo's jug of rum o to the riverbed, so I've heard."
"" Yes, but he was in a pet. There's Choldfast' to him. In another
ooble a little hardship or disapnood, a little hardship or disap-
ointment, and he would drink again like a fish." northward, where the evening star
shone. Rob saw the beautiful proRob saw the beautiful pro-
shone.
ile looked, too, wistfully.
" Mary", I said, "I I've offered myelf to you many times, I know, and am not worthy of you. 1 do not
but if you could ever make to me a bit,
mappy ". "You honor me, I know that," she replied graciously, and with an in-
tensity meant to compensate me for
mo the loss onever be."
that can ne
She rested her hand on my arm, and I upheld her.
though she saw far, there were some
steep places in the world that poor steep places in the
Rob and I, even, might have a better
knowledge of than she.

$\qquad$
$\qquad$
$\qquad$ .an. and laughed. is a charming boy, when he is
into your head? Rob ! why, he does
not seem to me to be a man at all." Someone slunk away in the shadSomeone slunk away in the shathe
ows. I went my way down the
ledges, and Mary went her way along thges, and Mary went her way along
the trail, home. Neither of us saw Rob. Like a stag, vitally shot,
proud to die alone, he turned aside proud to die alone, he turned aside
where no one would overtake him, and sat down weakly upon a stone behind a clump of bushes. Moments elapsed before he lifted his head again to the solemn, sen-
tient scene spread wide before him. For his making or his marring, he was alone in the universe, now. Every prop had fallen away from
him. The last friend of all-and the him. The last friend of all-and the
dearest he had ever known-had dearest he had erned him. Haw again her
scorne profile, he heard her slighting
sweet prent sweet profile, he heard her slighting
words. " " He-
And earth and air repeated the words about him, not jeeringly, but with an immeasurable sorrow. Rob fell so low that he fell back on ele-
mental reason. Why had Mary seemed so far from him, and the hope of winning her always as suspensive and vague as yonder infinitely-dis-
tant star? He could not " hold tant, star ? He could not " hold
fast," he was vain of purpose, weak fast," he was vain of purpose, weak
of will -he was "not a man at all." The latchkey years came back to him, the nights of carousal, the sod--
den days, his paralyzing illness, the den days, his paralyzing ilness, the
suicidal, drivelling idiocy of it all. suicidal, drivelling ealth had been re-
And even when her
stored through sheer force of circumstored through sheer force of circum-
stances and necessity, his riotous will, at the first sight of the tempter,
had plunged him unhesitating into the well of his former dissipations. He had made idle love to a girl
whom now he longed to cast from him ; he had gone whining to Mary Stingaree with his selfish regrets. He was " not a man at all."
Rob fell so very low that even reRob fell so very low that even re-
sentment, which once would have sentment, which once would have
swept in upon him as a flood, had
all his now no place in his soul. All his
newly-acquired vigor had oozed from his blood, all courage from his heart.
He dreaded to rise. How long he sat there he neither knew nor cared. It was a long vigil. Mary went sad-
ly to her room, leaving the house ly to her room, leaving the house door open for the return of the
wanderers. I went down to the
River and found Bate at the evil brew, but not Rob.
Rob sat crushed and hopeless, alone on the mountain-side; unbearably on the mountain-side; unbearably
alone when, at last, he staggened to
his feet. It was too much. The his feet. It was too much. The
soul cannot live alone, and Rob, of sheer necessity, cried out. O God," moaned the poor lad, " are You anywhere? He had a simple fancy that only the old Bible, bending itself to those
dilemmas of the soul commonly known as "' religion," besides being
the traditional refuge of the sick at heart, could tell him that. He crept up to his room noiselessty, and with by the table, he opened the ancient
volume. If, after the manner of men "-there it was, again-his text,
evidently ; God threw it at him per evidently; God threw it at him per
sistently. "If, after the manner o men, I have fought with beasts at
Ephesus."
Beasts? Beasts of intemperance Beasts? Reasts of intemperance
perhaps; of reckless riotousness, of
selfish passion; of weak, purposeless selfish passion; of weak, purposeless
will ? And fighting them for what?
Ah, nothing left now for him in al Ah, nothing left now for him in al
the world of delight and beauty, but just, as a poor skeleton in mora
rags, to try to stand up and ", be man."
Not one bit gloriously, but after
me manner of the abject, goaded to the manner of the abject, goaded to
his feet in the ring. Not with love
and honor and acclaim: but quite for and honor and acclaim; but quite for
saken, a beaten soul naked to the scorn of all, even so, unfalteringl
now to the death, to stand up, and "fight with beasts at Ephesus."
Rob clenched his fists once more and in his to heaven the rekindling was still a fight left.

over goesthe bucket
Pretty big drain on the profits. Better prevent this upsetting by removing the flies. Give yourself a little more ease at the milking hour. Use

## Dra, WIIlliams' Fly and

 Ilnsect Destroyer. Positively kills all pests, such as lice and vermin. Spray cattle and horses, flies will keep off. Animals will not display the fretfulness peouliar to summer. Is ABSOLUTELY HARMLESS, except to bugs and pests-it's death to them. EASILY APPLIED. Guaranteed. Money refunded to dissatisfied customers. BUY A CAN OF DR。 WILLIAMS' FLY AND INSECT DESTROYER. The usual summer pests will be completely overwhelmed. If your dealer hasn't the preparation, send $\$ 1$ for $\frac{1}{2}-g a l$. can and printed matter.THE F. WILLIAMS BO.
ACENTS WANTED BHORTHORNS
One imported ball, Good Monning (dmp.)
O50018=, \#ye yours ola. Oholoe heitere.

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 Atholetane Shomthome Throe chotoe bulle and a fow holfors: low-downs
 Shomethorme a wad Lolecett. Oit
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The only gasoline engine that is sold on trial and guaranteed satisfaction or no sala. The
price is low. Write for parprice is
ticulars.



Make Hay While
the Sun Stinnes
 QTRONG - ATMPLISACTORY Oshawa Hay Carrier Works, south oshawa, ontario.

1854 Mapla Lodge Stock Farm 1908 /Valley Home Shorthorns

 A. W. Smith, Maple Lodge, Ont. $\begin{gathered}\text { 8.J. PEARSON, SON \&CO., MEADOWVALE, ONT } \\ \text { Stations: Meadowale, C. P. R., and }\end{gathered}$

Shorthorns!

## BELMAR PARC.

teta Bonglas,
Poter White Pembroke, one.
of brooniling nald by our prand esartomo Monparoll Arother, Imp. Proud cim, IIE.
 Fomale. Importoil and from ingots. Anock in oald to thase bullu.
An mararpaesed lot of goertion hatben.

Sphllig valley Shorthbills SCOTCH SHORTHORNS
 broeding, oolor and individual merit
the Croickhank Brawith Bud bud,
Cross (imp.). Come and seo our herd.
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OIOVOR Lea stook Farm.


## 5 Shorthorn Bulls 10

imported the the grand champion, Prime Favorite, imp. You oannot aflord to buy without seeing these bulls. We will appreciate a visit. Females of all Burlington Jct. Stn., G. T. R. W. Gu' Pettlt \& Sons, Freoman, Ont

## A. Edward Meyer, Gualph, Ont.

 Box 378Breede Scotch Shorthorns Twelve of the most noted Sootch hribes hav
 Advocate Advertisers Reap Results.

MAPLE GROVE 8HORTHORNS Sootch and dairy bred; upto-dato in type; prise-
Winnerg at the looal show





QUESTIONS AND ANSWERS Miscellaneous
LADY'S SLIPPER
 planting Ans.-The specimen is A. M. Ans.-The specimen is Cyprepedium
spectabile, the showy lady's slipper. It belongs to the Orchid family and produces the handsomest flower of that in teresting order native to this country. Transplant it to a mixture of rich,
peaty loam and sand; give it abundance of water and drainage. It thrives best in springy situations. Try to repro-
duce the conditions of soil, moisture and sunshine in which you find it growing
sund wild.
BINDWEED-GRAPE GALL.
1 send a weed for identification and a
specimen of a disease on grapevine. Can specimen of a disease on grapevine. Can
you describe and give means of getting rid of these ?
Ans.-The weed is the hedge bindweed.
While not so difficult to eradicate as its While not so dificcult to eradicate as its
relation, the field bindweed, the only relation, the field bindweed, the only
effective means of exterminating it is by $\begin{aligned} & \text { constant hoeing and removing its slender } \\ & \text { perennial roots. }\end{aligned}$ The roundish, smooth and reddish excrescences on the young
stems and petioles of the grape are prostems and petioles of the grape are pro-
duced by the larvee of a small, reddish duced by the larve of a small, reddish
fy with black head and gray wings. On
cutting open one of the protuberances cutting open one of the protuberances
you will find one or several cavities,
each containing a small each containing a small, yellowish larva
The substance of the gall is juicy and
has a not unpleasant acid taste. The gall is known as the grape tomato-gall. Hand-picking is the prescribed remedy.
but many of the larvem are destroyed by but many
parasites.

## TOAD FLAX-MEADOW SALSIFY

 Weeds Nos. 1 and 2 are just makingtheir appearance in our fields. What their appearance in our fields. What
are their names and nature. What is the cause of the growth of specimen No.
3 ? Ans.-Weed No. 1, with short linear
leaves and yollow, spurred flowers, is toad flax. It is a perennial which
spreads by root and seed. No. 2, the
tall, narrow-leafed plant with bearded seeds, is the meadow salsify or yellow
goat's-heard a biennial relative of the garden salsify.
The first is a weed
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$


In to see a young lawyer whose father Was still paying his office rent.
"So you are now practicing
old erriend said, genially.
"No, sir," said the candid youth. "I
appear to be, but 1 am really practicing The prize list of Central Canada Ex-
hibition at Ottawa, to be held this year Sept. 18th to 26 th, has been issued, and
makes a good showing of liberal cash arge numbers of silver cups and medals. njoyable institutions of its kind ing in and -
PERCENTAGE OF FAT IN BUT State the exact amount of butter-fat Ans.-The fat content of butter varie considerably, ranging from 80 per cent. or less in some samples, up to as much
as 90 per cent. A fair average would as 90 per cent. A fair average would
probably be about 84 per cent., thoug of late years there is a tendency to incorporate a somewhat larger percentag of water than formerly, which propor INDIGESTION. (1)
Have a mare which had several bad attacks of acute indigestion. By vet
erinary treatment she has always re covered. Is there any treatment she could have to prevent her from taking this. Ans.-Have her teeth examined by a Ans,-Have her teeth examinarian, and, if necessary, treated, to secure proper mastication of her food Feed comparatively
hay or cut grass.
Feed
Fruall
quantities of oats, $\begin{array}{ll}\text { hay or cut grass. } \\ \text { or some bran with } & \begin{array}{c}\text { Feed crushed } \\ \text { whole oats. }\end{array} \\ \text { Give }\end{array}$ water little and often, and always be
core feeding. Feed a dessert apoonful ore feeding. Feed a dessert spoonful of week; Equal parts sulphate of iron, genof ginger, nux vomica, and bicarbonate of soda. When affected give 1 oz. fuid ex tract of Belladonna and 1i oz. nitrou
ether in half pint cold water.

## Veterinary

AZOTURIA-CATARRH

1. Aged mare, alter two days' rest,
was driven, and after going about half mile seemed to lose power of her legs he would at again. How should sho be treated ? 2. Give treatment for catarrh in Aheep. E. B. Ans. -1 . She had azoturia, which often
occurs when horses are driven, after Iew days' idleness. She should have been taken to the nearest stable and 2 drams pinger and given 2 aloes and mone in a pint of cold water as a down and unable to rise, she should be well bedded and
the
kept
comportable, and
off every 8 hours until able to rise.
2. Steam heads well with steam from boiling water three times daily and give
10 grains sulphate of copper three times 10 gr
daily.

## GOSSIP

A woman followed by thre-quarters of Are a London street car last week. asked the conductor. They're all little mother.

A young Holstein bull, bred in extra good producing lines, a son of the Great
Pontiac Korndyke, said to have more high-testing daughters in the Advanced Registry than any other bull living, dam by a son of De Kol 2 nd's Paul De Kol, is
offered for sale by E. H. Dollar, Heuvelton, N. Y., near Prescott, Ont., in his dvertisement in this paper
he in riding the land of kale. Ap to
towing, drills 28 or 30 inches apart are
preferred to broadcasting. Drill at the ate of $1 \frac{1}{1}$ to 2 pounds of good seed pe
acre. 1roadcasting would require fou
or five pounds. It may be sown Whe or early in July. If feed is want
d for dairy cows, a mixture of Farly
mber sugar cane and Huncarian

QUESTIONS AND ANSWERS Miscellaneous

WEAK FETLOCKS
have a foal two weeks old, sma and strong, except front fetlock Joints he walks over on them. Had veterina remove false tendons from his knees.
fetlock joints are a little crooked. he be likely to get strong on them? Ans.-Seo answer Coge 1080. June 25 th issue.

LUMP ON KNEE
Colt seven weeks old has lump as large as a hen's egg on the outside of its knee. It has been there since colt wa one week old. Colt has always be
smart and has had good appetite. it go away itself, or should it be bl tered? SUBSCRIBER. Ans.-The enlargement will probably disappear as the colt grows older.
not, it may require blistering, which best done in winter.

INDIGESTION IN CALF Calf five weeks old has had a coug
about three weeks; runs some at no lies down most of time; had cough
fore castration. Should calf that fore castration
chew its cud ? eyes run matter; the lids are sore look-
ing. ing. SUBSCRIBER. Ans.-The symptoms indicate $\begin{gathered}\text { indiges } \\ \text { tion. Purge with six ounces } \\ \text { Epsom }\end{gathered}$ tion. Purge with six ounces Epson
salts, and feed lightly for a few days Give half dram each of gentian and nu vomica twice daily for a week. Feed
luke-warm milk and whole oats, what calf will eat up clean. Keep in clean
airy, well-bedded shed or stall, with screened $\begin{gathered}\text { windows, } \\ \text { from fies. } \\ \text { Calves } \\ \text { do }\end{gathered}$ prevent torture
not ruminate at at that age, though if in health they crave bulky food at an early age in order to ruminate.

SALE OF STALLION. A owns $4 \frac{1}{2}$ shares in syndicate stallion;
each share is worth $\$ 100$. There ar each share is worth $\$ 100$. There ar seven others that have each $\$ 100$ in sai
stallion. stallon. Can those parties, exclusive of A advertise and sell said stallion withou
A's consent? A's consent ?
2. Kindly se 2. Kindly say if there is a stallio
registered in the Canadian Clydesdal Studbood, name The Great McGregor No.
2789 ? AN OLD SUBSCRIBER. Ontario.
Ans.-1. Probably not, but as it de
pends largely upon the terms of the agreement entered into between the par-
ties, we cen ties, we cannot answer definitely. It is is,
indeed, very likely that such agreement indeed, very likely that such agreemen
makes full provision for sale of the ani mal eventually, and the manner in whicl
it is to be brought it is to be brought about.
2. No. There is Gregor Macgregor
1 2. No. There is Gregor Macgregor
(2897]. No.
[2789] is Baron Lang Canadian and english wheats. Wheat flour and the comparison be
tween Canadian tween Canadian and English wheats have
been the subject of a very careful re

The Maple Leaf Gold Sheaf Hapvest Tools.


## shorthorn bulls|Tho Salom Stock Fum For sale <br> BHORTHORNE FOR AREIALTY MFOBMATIO <br> 

 JOHN MILLERIrougham, Ont.
Clarment 8t, C. P.
J. A. Watt, Elopa, Ont.We aro offoring a vory anperior lot of sHORT昷OR
 At the besti broeding and quallty at atitrative pricon for the buror.
To neo theme id all that in neooseary. Try to do so il you are in tho JMo. वLEMCY. H. GARCILL \& SON, Garsill, Out.

S
COTCH SHORTHORNS
TWO REDBULLE 12 Months Old


J. F. Mitchell, Burlington, Ont., P. O. \& Telegraph
Farm $\ddagger$ mile from Burlington Junction Station. Alidpper and a Martha. Priced low for quilok
aale. One of them out of en extre miller.

 J. T. Gllbson, Denfield, Ont.

Scotoln shomthomin Ewils
We are offering at hard.timpes prices ive balls, from six to forteon monthe old, from
the best of imported Scotch shorthorns. It will pay to eee theee bulls before buying.

Plasant Valley Shorthorns
 of the leading sootch familioes. High-
of tags young stock a
oppecialty. CorreGDDondence solicited. Inspection invited.
GEO. AMOS \& SoN, Moflatt, Ont., stn. \& P.O. Queenston Young bull, from im. Heights Heights
Shorthorns hall Ramaden. pid
 Farm is 11 miles enst of Gualph balf mile from station.
WHEN WRITING ADVERTISERS, PLEASE MENTION THIS PAPER.



The Etock-Owners' Mediolne Chest. What You Heve Been Wenting for Yars This olebs oontains: prion 1 Colle Drautht.
8 Coufill Powarr. © Diurotio Powdara. ${ }_{6}{ }^{1}$ Diaurihaon Drauchta 12 Condmtoin poudert.
 you stio tin the ordimary was. Sond to our modioloo oheot an oneo- you may now you may gate cisco it a weok. Agents wantod everywhere. The Stock-Owners' Votorinary Dispensary,
gre Jaryis Btreot, Toromto.
 SHORTHORNS

 wem. Gralntore © Son, Londonboro, Oint SUIHYYIDE STICK FARI
 CEDARDALE SHOPTHORM


Mapla Home Shorthorns !


Oar neat oafili

 T. semmore sors Elimira, Ont Greenock Shorthorns $\frac{\text { Imprat. Pront }}{\text { heotor heod }}$




ENMPIEW Offors you another son of the FAIRYIEW Offers you soither son of the



 prosootti, ón

0LOOK HERE Hato on hat bull oiven from


A lbat baluer mea Hibl butar Motic

Lakeviow Holsteins!



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 A. KENNEDY. Ayr, Ont.

Maple Glen Holstelins

 a. A. Glliroy, Glen Buell, Ont. Lyndale Holstalns!

 Count De Kol. Brown Bros. LHN, ON.

 MAPLE GRove ofrors a rlonly-bred

 Advocate Advertisers Reap Results.

THE FARMEF'S ADVOCATE.

QUESTIONS AND amswers. Veterinary
opacity of the cornea Horse had his eye injured last winter and it remained sore a long time, but
it got well. A vein remained running it got well. A vein remained running
across the eye and the eye has a milky appearance at lower corner. - The sight is all right.
hat.
his miky
deposit G. w. S Ans.-Mhis of a deposit of tymph botwoen the
sulyers of the cornea, which took place
laver during the inflammatory stage, and did not become absorbed.
todious to
to
 ditratiled water and put
dis eye twice daily.
his
removing Harness at noon -KNE HARNESS

1. My My
has bractice when working colte
been
to bathe shoulders with cold water at noon
and also as soon as work ceases at ani halso An sexperinced worrseman toll
night.
An me that $I$ make a mistake, that 1 shoul
not remove the collar until the anima cools of, as its pressure prevents con
gestion of the arteries and lessens the gestion of the arteries and lessens then
tendency to scalding or blistering. $\underset{\text { statement that blistering for kneesprung }}{2 \text { 2. }}$ does no good. Does this apply to a
specific case, or generally? I have been specific case, or generally? 1 have beon
using a strong liniment without result
lit
 Ans. -1 . Your system is correct and
usually followed by good results.


 the top of the neck, which will be in
proportion to the weight of the collar proportion to the weight of the coint
hence the shoulders being free from pres-
sunc sure cannot be influenced as he states.
Again, there are no arteries in the skin, Again, there are no arteries in the skin,
simply very manall vessels called capil
vect sirply very small vessets canted capi
laries, connecting the very mall arteries
with the equally small veims.
The re with, the equally small velna. The re-
moval of the collar and bathing the
mar moval of the collar and bathing the
shoulders with cold water removes all
wald sweat, dirt, otc, and allows the partes
to beocore cool ond the circulation does
not suffer. In fact the cold causes con-
not


 2. Theoretically the blistering of the
extensor muscles and tendons phould
give extensor results in kneesprung, but in
give good real we fail to observe the results.
practice
In most cases it is the flexor or back
In


Miscellaneous.
Cows chewing bones.



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bat ehotce boll oelves.
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mpontho old d well bred; in fine condi-
tion now fit for bervice.



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$\mathbf{R}^{1 \text { IDGEDALE }}$ FARM, HOLETEINS - For




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Strawberry. Last ummer my little girl,
aged two years, was taken ill with strawberry. Last summer my little girl,
aged two years, was taken ill with Sum-
mer Complaint, and as my mother always kept Dr. Fowler's in the house when I was a child, I seemed to follow her oxam-
ple as I always have it also. I at once ple as I always have it also. I at once at once relieved, and after a couplo of
donoan were talken wan complotaly curod.

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## QUESTIONS AND ANSWERS

 Miscellaneous.
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QUESTIONS AND ANSWERS Miscellaneous.

TWISTING WIRE FOR LIGHT Seeing you recommend No. 9 galvan-
ized wire twisted for lightning rods, ized wire twisted for lightning rods, piease and the best way to put them up. Ans-See article in this issue headed Ans.-See article ing Rods. CUTWORMS DESTROY TOMATO PLANTS.
Am trying to raise tomatoes on a large
scale, but on setting out the plants i lose about half of them; they are cut of at the top of the ground by a gray worm
about half an inch long. Can generill about hall an inch long. Can generally
find the worm after the plant is cut off They must work at night, as can see no worms above the ground during the day. Ans.-It is evident that the tomato
plants have been destroyed by one or other of the three hundred species of cut-
These insects work at night worms. These insects work at night,
hiding in the soil by day. It is probable that before this reaches the eye of
the reader the brood that caused the mischief will have entered the pupa state,
and unless some other species appear and unless some other species appears,
further transplantation may be done without loss. The best thing to do is
to poison the cutworms, by sprinkling around the plants or about the field a poisoned bran mash, made of one pound
of Paris green to one hundred pounds of dampened bran, or one ounce of green to
six pounds of bran. Put the bran in a six pounds of bran. Put
large pan or vessel, dampen slightly with large pan or aining a little sugar or salt;
water conter mix thoroughly until the bran
stir and min seems to be almost dry to the touch.
Then sift over it the requisite amount of Then sit over and stir thoroughly. Be
Paris green, and
careful to have the right proportion of the poison. If too strong the insects
then of its effect.
TIES. In the spring of 1907 I bred four
Clydesdale mares all to one horse; these
wares worked hard all winter on the mares worked hard all winter on the
roads. Two had colts near their time, roads. Two had colts near their time, weeks after we quit teaming mare No. ${ }^{3}$,
slipped her colt six weeks before time. slipped her colt six weeks before time.
She had not been out of the stable for four days at the time. Her mate car-
ried her colt three weeks past time; had tour hays at three weeks past time; had
ried her colt that
white wax and leaked milk for two weeks wefore she foaled. She had a fine-look-
ing colt, able to get up and walk about, but lifeless; did not care to suck; by milking in its mouth it would suck a
little; lived a couple of days and died; bowels all right, and I could see no
reason for its death. Will mare No ${ }_{3}$ ikely abort again? Will mare No. ${ }^{3}$
likely mare No. 4 likely act the same another year? Would
it make any diflerence if I should breed
her to any ercheron or French- Canadian or hors?
Could there be anything amiss in the way they were fed? Whything amiss in the
wherking hard
hey had five quarts oats three times a lay, had five quarts oats three times a
turnip or small sugar mangel
night, and salt every day. Mares


[^0]:    ship, demands that the seductive ote fill

