## PAGES

MISSING

## The Farmer's Ndvocate

Persevere and Succeed.

## and Fome )ragazine

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## EDITORIAL

ENGLISH - SPARROW NUISANCE
The article on the English sparrow, published in the Farm Department of The Farmer s Advocate" for Novemberty subscriber, who seems to think the sparrow does more good than harm, or, at any rate, that it should be spared on sent mental and humanitarian grouns. Our sympat.y goes out freely to all creatures of the earth and air, except snakes, rodents and vermin. We can even feel interested in the dingy sparrow. Undoubt edly, it performs a valuable service as a sca puss of yards and streets, just as our friend, the pusi cat, helps to reduce the rain as having too much But there is such a thing as When cats multi or too many-hey reduce the make of butter, and ply unduly they to some other things to which they have questionable title. So with sparrows. Their prolificacy is responsible for an undesirable excess of their kind, which, hovering about the farm buildings and crops, befouling roofs sometimes fodder, and helping themselves grain, prove a filthy and expensiven of a single has been calculated that the progenlested, in ten osir of sparrows might, billion. Their commonyears amount to over 275 billon. y-credited penchant point against them, while the recently-voiced point against they may a means of spreading suspicontagion of foot-and-mouth disease, will also tend to increase their unpopularity
It really seems neccssary that something should be done to lessen their numbers, and the offering of prizes to school children for the is probably sparrows' eggs, while it seems cruel, is effective no more cruel, and might prove ween tried. than some other pla, the East Pictou Council Down in Nova sade some progress in exterminatof Women has made slant, ragwort, which causes ing the notorious pisease, by offering prizes to the Pictou Catle and there is something to be said school thy this method in combating th in farrow nuisance. True, there is considerable to sparrow nuisance. for instance, the danger of children securing a considerable proportion of ther birds' eggs, and developing bird-nesting pro thersities in the juvenile mind. Let us hear the mind of our readers as to the prudence of the suggestion.

TAFT DEFINES PROTECTION
President-elect 'Taft, of the United States, give he following definition of the measure of protec ion called for by the platiorm or the party:
." It will take the difference between the cost of production here and the cost of whether of the farm, the factory, or the mine, an difference impose a customs dury equat That cost of producin the cost of productionst of three elements-the tion is made up al cost of labor, and the manucost of materia, or interest on capital. Taking facturer's profit, or intere the measure by which that difference, the lepublican party words, it has pledged itself the tariff. Anery industry, and to give every ore of to protect every protection the same incasure of .iry heayy. The disease occurs chiefly in cattle .""This sounde

## THE FARMER'S ADVOCATE

the Farmer's Advocate and Home Magazine.
thib leading agricultural journal in the DOMINION.
THE WILLIMM WELD John Weld, Maragr.
Alegts fok The Farmar's Advocatr, $\begin{gathered}\text { Winampg, Man. }\end{gathered}$
(Emeland) $\mathrm{O}_{\text {trick }}$
T. SAXON WELD, and (Eneland) OFFicR:
a. THE FARMER'S ADVCATE AND HOME MAGAZINE







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section. Every true teacher delights in such
section
work.
In several localities a start has been made is perhaps as praiseworthy as any. The interes manifested there, both in the school grounds and in the home gardens, is an evidence of what would follow in every school section. Now that th horticultural instructors at Ontario Agricultural College have rearranged the course of studies so that more attention is to be given to landscape gardening and the culture of plants, flowers
shrubs and trees, it should get in touch with public tee boards. The latter should see that nothing is left undone that will insure such campaign in all parts of the country.

## BUSINESS OUTLOOK BRIGHTENING.

According to the October Bank Statement, issued from Ottawa, deposits in Canada increaser while business absorbed extent of $\$ 11,362,879$ while business absorbed, by way of current and
call loans, only $\$ 3,322,014$ more than durine the previous month. The increase in the deposit.s would appear to signify that the Canadian people have heeded the advice to practice thrift. It also indicates a gratifying improvement in the business outlook, and presages a period of re newed industrial activity. Indeed, where the banks were contracting credits, they now seem inclined to encourage legitimate investment. With good crops in the Canadian West, as well as a very fair harvest over the rest of the country, and with the elections over both in Canada and
the United States, the commercial horizon is steadily brightening, and there is every indication that the threatened storm of commercial distress has turned out to be only a passing squall. Hope and confidence, tempered slightly with prudence, is the order of the day sighty with prudence

## \& NATIONAL AND COMPREHENSIVE IN SCOPE.

Anticipation whets enjoyment. Reader generally will be interested to learn that prominent among the features secured for our coming Christmas Number, to be pub lished December 10th, is an article on 'Th Farmer's Interest in Forestry," by Dr. B E. Fernow, the eminent Dean of the Fac ulty of Forestry in the University of Toronto. Dr. Fernow presents a masterly survey of the timber and forestry situation in Canada, from the standpoint of the strong reasons for individual fort ot forestation, particularly of the waste lands on the farm. J. H. Grisdale, Agricultur ist, of the Central Experimental Farm Ottawa, deals well and comprehensively with the outlook for the beef industry in Canada; and our expert horse writer, "Whip." discusses entertainingly the place of the horse in history; while the services spondents have been enlisted to good purpose in covering the various other phases of agricultural effort which come within scope of "The Farmer's Advocate and Home Magazine." The Home Magazine will contain features of exceptional interest, including the opening instalment of new serial, The Golden Dog. No pains tandard of illustration insure the highest and taken ill anticipate a treat of excellent readers may journalistic art.

PRICE OF THE CHRISTMAS NUMBER The splendid Christmas Number, to be issued next week, goes free of charge to every regular subscriber. To non-subscribers, the price of this who wish to send their friends, may order them sent, postpaid to just half the above price, viz., 25 cents.

WEAKNESS OF THE COW-TESTING ASSOCIATIONS
partmal surgestion is offered in the Dairy Department of "'The Farmer's Advocate " this week by Dr. Robertson, of Halton Co., Ont.; who notes Cow-testing Associnease in the membership of the an increase had been confidently expected where other cow-testing associations are as little appre ciated by the dairymen as theirs, he suggests that we should inquire into the reasons and seek out a remedy. That Dr. Robertson appreciates the importance of cow-testing is shown by the tenor of his letter, and corroborated by the fact that in the large dairy in which he is interested they have kept daily records for four or five years, though belonging to the Cow-testing Association Now, here is where our correspondent puts his finger on a serious weakness of the cow-testing rovement as organized in Canada
" We find every caretaker, every milker ecery feeder in our dairy interested in the and times a month." He rightly considers that "hree desired results of all the eforts and all the assist he: First, the keeping of records by the alairyman himself; second, the weeding out of his herd. The
first will surely bring the sian taken care of by the association does not seem to
encourage personal responsitility, does not realize that it is his own work and hi own business. Until he keeps a daily record he is not sufficiently interested in his own cows. As
soon as he does this he sees new light. watches the scales morning and evening, and will
do his best to keep up thi flow do hi
day."

This is supreme truth. Weighing the milk of
weighing at all. If faithfully followed it may give a fairly good idea of the relative value of
the cows in the herd, but as a means of getting the cows in the herd, but as a means of getting a dairyman interested in the cow question it i.
not to be compared to daily records. Daily weighing enâbles and directly stimulates the dairy man to make more out of the cows he already has; weighing three days a month does not, except to a comparatively slight degree. Daily records keep the dairyman's attention steadily focussed upon his herd; weighing three times a month does not. Daily weighing makes for continuity of effort, and generally leads to permanent results ; intermittent weighing is liable to be neglected and sooner or later discontinued. testing as the cowthe prime effort should be to get the dairyman sufficiently interested to weigh each cow's milk at every milking. So far as Babcock testing is concerned, co-operation is a decided convenience, but the co-operators must be brought to realize that they are not merely co-operating to be helped, but co-operating to help themselves.

## MODERATE AND LOGICAL

I must express my appreciation of the stand questions affecting the farmers during the past vear or two. Your paper has been moderate and logical, and yet courageous, on these matters, and cannot fail to have a good effect
$\qquad$

## HORSES.

CRACKED OR CHAPPED HEELS AND MUD FEVER IN HORSES.
The causes of mud fever and cracked heels are present at the same time in the same animal, that most of the remarks re prevention of the one are Clipping the limbs, esperial
Clipping the limbs, especially the hind limbs, mud fever, and this susceptible to an attack of the practice of washing off dirt immediately on coming in from a journey is followed by the per
sons in charge, and it a well-known fict the dirt in some districts is much more lactle that produce the disease than that in others. This is doubtless owing to its tenacious character and irritating properties.
Cold winds, and particularly draughts, acting when mud is splashed during progression, abdomen, very great factors in inducing mogression, prove cracked heels, and cold, hard water aggravates
the irritating effects of both cold wind and mud much roore than soft water
To prevent mud fever and cracked heels, in ad-
dition to leaving the hair on the dition to leaving the hair on the parts likely to
be affected, which, as has already been mention
is is one of the most effectual preventives of these troubles, care should be taken never to allow an animal to stand in a cold wind or draught from and he has been heated by violent excrcise wet as on a return from a journey at a fast pace.
Whenever a horse comes in with his legs so dirty that its removal is necessary for the comfort of cloths, to clear off as mubbing down with dry wetting, and allowing the remainder to dry on until it can be brushed of, or washing off with
water, preferably soft, and then thoronghy ing, should be resorted to, and the peoughly drytaken not to allow the limbs to the precautions
draught, as already mosed to a
It is the alternate chill and irritation acting on the skin when in a heated or congested state
from exertion that produces both mud fever and cracked heels, thus, when a horse is splashing himself with mud while travelling, the wat mud sets up a certain amount of irritation (some kinds
of mud being much more irritating to when damp than others. hence the prevalence of
mud fever and mud fever and cracked heels in certain districts)
the parts soon hecome then a fresh lot of wertially dry and heated,
tplat mud, or both, is
splashed on, which suddenty plashed on, which suddenly chills the both, is
again become partially dry, and again to
antil the it the horse eventually arrives home; and then, lews, etc. are washed off with cold water, the the ". which there is a reaction, corresponding to parts are just in a condition to be bath, and the other circumstances. it is almost imperative
that the legs should be washed on returning from a journey, in distric
lent, washing with in which some grist bran water "-that is, wreva- been stead of plain water, followed by carefully dry-
ing and bandaging the legs, wery considerably less-
ens the risk of an attack of ens the risk of an attack of both mud fever and
cracked heels.-[Correspondent in Agricultura Gazette:

DAVID RIDDELL
The unique tribute paid in the presentation to
Mr. D. Riddell, recently,says the Scottish Farmer marks an important stage in the history of Cly desdale breeding in Scotland. For well-nigh 60 years Mr. Riddell has been a conspicuous figure in
the Clydesdale world. For the first half of that the Cod and more, he was easily the leading man among owners of Clydesdale entire horses. Be-
ginning with the exhibition of Champion (126) at the Highland and Agricultural Society's Snow, at Inverness, in 1856, it may safely be said that, up to a few years ago, his ne national society. His career as an owner of entires was, for many years, associated in a marked degree with horses of the Sir Walter Scott (797) race, to which Champion
-named already-belonged. After Champion, he -named already-belonged After Champion, he his son, Sir Walter Scott ( 797 ); his son, General (322): his son, Prince of Wales (673), and an
almost countless army of his sons. He also almost countless army of his sons. He also
owned several of another race of descendants owned several ott (797), the most notable member of which race was the celebrated Time o' Day (875) ; his son, Bonnie Breastknot (108), with which he took the quite a related to him. wise related the race
But, while the of horses bred by the
late Mr. George Scott late Mr. George Scott,
at the Barr, Largs, at the Barr, Largs,
gave Mr. Riddell his gave Mr. Ras a Clydesdale stallion-own
er, his name is more surely engraven on Clydesdale
through his history
owner through his owner-
ship of the worldship of the world-
(amed Darnley (222),
which he purchased) famed he purchased
which he irom the late Sir Wm. Stirling Maxwell, of
Keir, Bart., through Keir, Bart., throind,
his lifelong friend,
the late Alexander the late Alexander
Young, who was so loug factor on the long factor on the
Keir and Cawder esKeir and Cawder es-
tates. The history of Darnley is the Clydesdale. When he passed into Mr. Riddell's hands, a three year-old off, in 1875
 was not had for long been setting store by in the Cly-
desdale world. But desdale world. he was the type that rule that world, and south of the Border, and yet the story It was defeats only awakens a smine and the old were
a clear indication that the new at variance with Gleniffer (361) and Druid to beat were considered by some judges worthy tho of Darnley. To those who ats appear now to have both horses, the fooling. They are, however, noteworthy in an historical sense, as showing the qual-breed-type was modeal feet and pasterns. Gleniffer
ity horse, with ideal ity horse, with big bones, round rather than faid had and in respect of length and set of pasterns they had nothing to give away. small degree the credit questionably belong type of Clydesdale, the type of which Darnley and his whole
the outstanding illustrations.
The use of sawdust above the knees of Shire
Thes at English shows has been stopped by the horses at English shows has been stopped by the
Shire Horse Society. In future, "the use of Shire Horse Society. In future, or any other
rosin, soap, sawdust above the knee, or and rosin, soap, sawdust above the knee, or any other-
substances designed to give an artificial appear-, ance, etc., etc., will act as a disqualification. It has also been decided to notify extwill be ap-
the London Show that two inspectors wion pointed to
judging-ring.
in his best estate is Darnley. That this is not a lous swelling may appear on the lower lip, point false reading of history is evidenced show-yards other pendant portion, especially late in the disfalse reading was twice beaten in show-yards otase phich is indicative of poor circulation, thin-
that Darnley was of these ease, whe story of theas and
south of the Border, and yet the


Thorncliffe Duchess 2nd.
Clydesdale mare; bay; foaled 1903. Winner of first and grand champlonshis, ydesdale mare; bay,
Canadian National Fazhibition, Toronto, and Western Fair, London, 190
Nat ous swelling math, leath, under the belly, on some
of elber pendant portion, especially late in the dis-
other

After death, the carcass is found to be very
And ansomic, the visible mucosai being emaciated and anzemic, the visible mucosai being very pale. This marked absence of adipose tissue and intermuscular edema and hemorrhages are frequently observed, although it is remarkable, in many cases, to see how few macroscopic lesions

may be present. The predominating and most may be present. The predominating and mos observed in the muscles or on the serous mem| branes of the heart. The heart is generally en |
| :--- | larged, and may be the only organ to show may

dence of disease. In other cases the lungs may be studded with petechixe, with a serous exudate present in the thoracic cavity. The liver is generally normal. Kidneys may appear normal or
neomic. Lymph glands may be enlarged and neomic. Lymph glands may be enlarged and
hemorrhagic. The diagnosis of the disease is not difficult, esset, remittent fever, progressive emaciation and anxmia, unimpaired or ravenous appetite, staggering gait, and polyuria, form a train of sympcoms which make the discase sufficiently characteristic to differentiate it from other diseases af

The prognosis of the disease is very unfavorable. Veterinarians in different sections of the
country where the disease is prevalent claim a mortality of seventy-five per cent.. or even higher. Recovery only takes place when treatment is be
gun early, or when the animal has a long convulescent period. Treatment has, so far, been far from satisfactory. The iodide, permanganate and carbonate of potash have been used. Arsenic, axytol
quinine and silver preparations have been sug quinted, but all have been without uniform success. Intestinal antiseptics have been resorted to, and the results are encouraging, but not alto
gether satisfactory.
Symptomatic treatment seems to be the most dependable. For instance, Dr. Davison was able to reduce greatly the mortality from this affection by giving an
antipyretic of forty (40) grains of quinine, two antipyretic of forty (40) grains of quinine, two powdered nux vomica four times daily. In the late stages, with weak heart action, alcohol should be substituted for acetani, in addition, frequent baths may be given, and, water per rectum, which has a beneficial effect in reducing the temperature, and likewise in stimulating peristalsis of the bowels, which, as a result of the disease, show a
tendency to became torpid during the fever. Avoid giving purgatives unless absolutely necessary, o account of their debilitating effect; but, instead frequently a dirty, yellowish tinge of the visible mucous membranes has been observed, in which case, twenty (20) grains of calomel in from two
to four (2 to 4) drams of aloes, in a ball of twodram (2) doses of fluidextract of podophyllin may be given. Following the subsidence of the fever a tonic was administered, composed of iron, quinine, nux vomica and gentian, in combination
$[\mathrm{J}$. R. Mohler, U. S. Department of Agriculture at the Inter-State Association of Live-stock Sanitary Boards, Washington, D.

## TO EXAMINE A SICK HORSE.

According to Dr. David Roberts, Wisconsin State Veterinarian, the proper way to examine a sick horse is
First, take the temperature of the animal by placing a fever thermometer into the rectum, allowing it to remain there from three to ive nin tes. The normal temperature of a cow is 101 logress is 100 degrees. sheep, 101 degrees.
Second, take the pulse of the animal, which can be found at the angle of the lower jaw bone. The normal beats of a cow's pulse are from 40 to $q^{0}$ 50 per rainute
Third, count the respiration of the animal, or number of times it breathes, by watching the sides of flanks, or by pressing the ear to the side. The normal respiration of the cow is from 15 to 20,1
per minute, and that of a horse from 12 to 15 , per minute, while resting. If the temperature, per minute, whise or respirations are found to be higher or faster than above d
the animal is ailing.

## LIVE STOCK.

## A HOG-FEEDIMG ACCOUNT.

K Prince Edward County feeder writes:
figure that I lost about $\$ 5$ on my last lot of seven hogs. When finished and delivered at six months old, they weighed nearly 160 pounds aver age, and sold for $\$ .85$. When woanor, I valued in the ear at 25 cents per bushel, other stuff at current prices, and threw my labor in, or took the manure for $i t$. With the cured meat selling from the corner store at 18 cents per pound, I fancy the packer must be getting a better dividend than I am."
[Note--Have any other readers of "The Farm er's Advocate" been figuring out their returna
from hog-feeding lately? What was the result? It will do good to let others have the benefit of the experience, with itemized statement of the feeding outlay.-Editor.

WHAT TO GIVE FOR A CHRISTMAS PRESEIIT No better Christmas present can be made to friend than a year's subscription to "' The Farmremembrance but a constant help and pleasure throughout the year. The Christmas Number, which will be included with each new yearly sub scription while the supply lasts, is alone wort half the money. Order now, and have the now sub
her
legislation against dogs to aid shee INDUSTRY.
Departments of Agriculture in the various Prov Ances of Canada, realizing the importance of the that tend to work in the interests of those farmby who wish to raise sheep. Since losses caused y dogs in killing, wounding and worrying are sirable industry, legislation drawback to this de directed toward the control of the dog nuisance.
ontario Laws regarding sheep and
Legislation in Ontario protects owners of sheep as follows

Any person may kill-
Any dog which he sees pursuing, worry-
ing or wounding any sheep or or dog, without lawful permission, in Any dog, without lawful permission, in
any enclosed field on any farm which
the the owner or occupant ongeof, or his servant, finds giving tongue and terri-
fying any sheep or lamb on such farm;
(c) Any dog which any person finds strayny dog which any person finds stray-
ing between sunset and sunrise on any
farm whereon any sheep or lambs are farm whereon any sheep or lambs are
But no dog so straying which belongs to or is kept or harbored by the occupant of any prem-
ises next adjoining the said farm, or next adjoining that part of any highway or lane which abuts on said farm; nor any dog so straying, either
when securely muzzled or when accompanied by or when securrely muzzled or when accompaned by or person owning or possessing or having the charge
or care of said dog, shall be so killed unless there or care of said dog, shall be so killed unless there is reasonable apprehension that such dog, or likely to pursue, worry, wound or terrify sheep or lambs then on the said farm,"
In case of worry, injury or death by dogs, complaint must be made in writing, on oath before a
justice of the peace, within six months, and a ustice of the peace, within six months, and a
date and place will be set to deal with the matter
according to law. Regarding conviction the law
says: : In case anv person is convicted on the oath of a credible witness, of conving or on having in in
his possession a dog which has worried or injured his possession a dog which has worried or injured
or destroyed any sheep or lamb, the Justice of or destroyed any sheep or lamb, the Justice of
the Peace may make an order for the killing of the Peace may make an order for the killing of
such dogcrihing the same according to the
tenor of the descrintion given in the complaint tenor of the description given in the complaint
and in the evidence) within three days, and in de and in the evidence) within three days, and in de-
fault thereof may, in his discretion, impose a fine upon such person not exceeding $\$ 20$ with costs, and all penalties imposed under this section shall be applied to the use
the defendant resides.
Several clauses are inserted in the Act ex plaining details in connection with recovery o damages. The most important of these are:
" (1) The owner of any sheep or lamb killed or injured by any dog shall be entitled to recover the damage occasioned thereby from the owner or keeper of such dog, by an action for damages, or
by sumary proceedings before a Justice of the Peace, on information or complaint before such justice, who is hereby authorized to hear and determine such complaint, and proceed thereon in the manner provided by the Ontario Summary mentioned; and such aggrieved party shall be entitled so to recover in such action or proceedings,
whether the owner or keeper of such dog knew or whether the owner or keeper of such dog knew or
did not know that it was vicious or accustomed to worry sheep.
"(2) If it appears to the court or judge at such justice at the hearing of the said information or complaint before him, that the damage or some part of the damage sustained by such ag-
grieved party was the joint act of some other dog rieved party was the joint act of some other dog
r dogs, and of the dog or dogs owned or kept by the person charged in such information or complaint, the court, judge or justice shall have
power so to decide, and to apportion the damages sustained by the complainant, among and against the respective owners or keepers of the said dogs, as far as such owners or keepers are known, in such shares and proportions as such court, judge or justice thinks fit, and to award the same by
the judgment of the said court or judge, or in the onviction of such justice on behalf of such aggrieved ${ }^{\prime \prime}$ (3) wherson. When in the opinion of the court, judge or justice, the damages were occasioned by dogs
the owner or owners of which are known, and dogs the owner or owners of which are unknown, summoned to or owners of which have notgeen justice, the court, judge or justice may decide and adjudge as to the proportion of the damages which, having regard to the evidence adduced as
to the strength, ferocity and character of the various dogs shown to have been engaged in comvarious dogs shown ogs the owner or owners moned to appear before the court, judge or justice,
and shall dotermine in respect thereof and appor-
tion the damages which the court, judge or justice decides to have been probably done by the
dogs whose owners have been summoned, amonyst dogs whose owners have been summoned, amonyst
the various owners who have been summoned as the various owners who have becn sume
aforesaid. had against any person found by the court, judge or justice to be the owner or keeper of the dogs
which by such court, judge or justice, are found to have contributed to the damage sustained by the person aggrieved, as if the information or complaint had been, laid in the first instanc Owners of dogs that do injury to sheep and lambs also are required to kill the dogs within forty-eight hours after notice is given, and if one
neglects to do so must forfeit $\$ 2.50$ for each dog, neglects to do so must forfeit $\$ 2.50$ for each dog,
and $\$ 1.25$ for each such dog for every 48 hours thereafter until killed, unless it can be proven that it was not within the power of the owner or
keeper to kill such dog or dogs.
By way of guarantee to the sheep-owner, the By way of guarantee to the sheep-owner, the law states:
killed or in injured owner of any sheep or lamb so killed or injured proceeds against the owner or
keeper of the dog that committed the injury, be fore a justice of the peace, as provided by thi Act, and is unable on the conviction of the of fender to levy the amount ordered to
want of sufficient distress to levy the same, the the council of the municipality in which the of fender resided at the time of the injury shall order
their treasurer to pay to the aggrieved party two their treasurer to pay to the aggriceed paid by the justice under the conviction, in addition to the costs of the proceedings before the justice and be


Gold Cup (imp.) $=50038=(86064)$
Shorthorn bull; roan; calved April, 1903. Rred by Wm. Duthie, Collynie, Aber-
deenshire. Owned by Sir deenshire. Owned by Sir George Drummond, Beaconsfietd, Que. Sire NonThis has been considered an injustice.

QUEBEC LEGISLATION. Quebec, dealauses: be killed, with costs against such owner or pos-
njured while running at large upon any highway or unenclosed land, shall have no claim under this Additional protection is afforded by a tax on dogs, levied annually, one dollar for each dog and two dollars for each bitch, except in the case of kennels of pure-breds, where a maximum tax of $\$ 10$ may be leviled. in whole or in part, on petition of twenty-five ratepayers. Municipalities may pass by-laws by which money collected canbe subject to disposition the same as local taxes,

Vol. I., Revised Statutes, in the Province of
Quebec, dealing with vicious dogs, contains the ". 1 . Any justice of the peace, upon a complaint
ande to him that a dog is vicious, or supposed made to him that a dog is vicious, or supposed
to be attacked by hydrophobia, or is in the habit of be attacked by hydrophobia, or at at large or in of attacking persons, or animuls at large or in erty, may, after hearing the parties in a summary
manner, and if convinced that the complaint is well founded, condemn the proprietor or possessor of such dog to cause it to be confined for a perind of forty days, or may order such dog to " 2. If the owner or possessor of such dog permit it to go at large, or fail to kill it, in
contravention of the order of the justice, such contravention of the order of the justice, such
owner or possessor shall incur a penalty of not more than one dollar per diem. more than one dolar per diem. of its master's prop-
erty, and that the erty, and that the
dog is vicious, the
justice of the peace justice of the peace
shall condemn the owner or possessor
to kill it. "4. It shall,
nevertheless he law, nevertheless, be law
ful to lill any which, without the limits of its master's proparty, pur-
sues, or is known to sues, or is known to
pursue or strangle sheep, or to make a complaint to a justice of the peace,
who shall condemn
the the owner to kill such dog and to pay testimony of one
credible pors on, without projudice to any clain for damages caused by the
loss of the sheep." The municipal code provides that every loeal council
may further may further make, amend or rapeal by-
laws for each of the objects mentioned. " 'To ordar dogs
to be kept muzzled or tied up; muzzled
vent or tied up; to pre-
vent them from being at large without
treasurer shall pay "not less than" two-thirds of their masters or other persons to take charge of
the value of the animals destroyed. This would them ; to impose a tax, not exceeding ten dollars, leave it in the discretion of the officials as to on the owners of every dog kept in the municwhether or not the full value be paid. Town- ipality; and to authorize any municipal officer or one township sheep inspectors are appointed to all dogs found at large, contrary to municipal decide on a proper valuation, and the result has regulations.
The following clause has been recommended for of "The by-laws made under for any contravention insertion in the Act to cover the point: covered, except in so far as respects the tax, fromlage, shall at their first meeting each year ap- dogs are found in contravention of such by-laws." point one or more competent persons, to be known as sheep inspectors, whose duty it shall be to inspect the injury done to sheep by dogs in cases
where the owner or keeper of the dog or dogs committing the injury cannot be found, and the aggrieved party intends to make claim for comSensation appointee shall investigate the injury within 48 hours after the notice is given to him, and forthwith make his report in writing to the Clerk
of the Council as early as possible after the in of the Council as early as possible after the in-
vestigation, giving in detail the extent of injuries and amount of damage done. This repor shall be used by the council as evidence in adjusting the claim.
It has also been recommended that owners of
sheep or lambs must claim compensation in puly son, or in writing, before the sheep inspector within 48 hours after the injury is committal.
Sheep running at large are not protectell. can be seen from the following clause
. ${ }^{\text {The owner of any shepp or lamb killed o }}$,
sees pursuing, worrying or wounluy, aus, sheep or
lamb; or (b) any dog giving tonsur and Lurrib) ing lamb; or (b) any dog giving tongur ond turriying
any sheep or lamb on any tarnh, or (s) any dog
anhich any person finds struyiny which any person finds straying bet ween sunset
and sunrise on any farm whereon show, are kept. and suntis on ans that no dog so strying, and
Provided always, this kept or harborwi by the which belongs to or is kept or harborid by the
occupant of any premises next adjoining the saidd farm, or next adjoining that part of any highway
or lane which abuts on said farm; nor any dos so straying, either when securely nuzzled or ac-
companied by or being within reasonable call or control of any person owning or possessing or
on having the charge or care of said dog, shall be
so killed unless there is reasonable apprehension that such dog if not killed is likely to pursue,
worry. $\begin{aligned} & \text { wound or terrify sheep or lambs then on } \\ & \text { said farm.". }\end{aligned}$ protection in nova scotia.
The protective measures in Nova Scotia are similar to those of Ontario. (a) worrying sheep or lambs; (b) giving tongue or terrifying sheep or lambs; (c) straying bet ween sunset and sunrise on a farm where sheep or neighbor whose property adjoins. 2. In the case of sheep destroyed by dogs, the
owner can, by redress to common law, obtain the owner can, by redress to common law, obtain the
value of the sheep if he can prove the owner of val
the dog that did the damage.
Increased prices for sheep and their products Increased prices for sheep and their products
in recent years, and a more general recognition of in recent years, and a more
the adaptability of Nova Scotia for sheep-raising,
developed a growing sentiment in favor of further developed a growing sentiment in into the House of
legislation. A bill introduced into Assembly and given two readings, by which end
Sheep Protection Act was to be amended, stipuSheep Protection Act municipalities should impose a tax of not less than $\$ 1.00$ on dogs and $\$ 2.00$
on bitches. (2) Taxes so collected to constitute a separate of sheep destroyed by dogs, the owners to owners of sheep destroyed not known. (3) A statement as to the legal procedure necessary to
secure this indemnity. (4) Incorporated cities secure this indemnity.
and towns to pay $15 \%$ of the total dog tax coland towns the common municipal fund for above purposes. (5) This law to apply to the for a Province, hut subject to be voted period of one year in any municipaty by the period of one year the law to come automatically municipal force the following year, unless again rendered inoperative by a vote of the feeling of the people resulted in the bill being given an indefipeople res
nite hoist.
The Municipal Act of Nova Scotia allows a municipality to impose a tax on dogs, and to col-
lect such tax as part of the ordinary revenue of lect such tax as one municipality passed a law imposing a $\$ 1.00$ tax on dogs, and the report is
that the results have been very satisfactory, so that the results have been very satisfactory con-
far as reduction of the number of dogs is confar as reduction or, there has not been a corcerned. However, in the number of sheep. A
responding increase in partial reason for this, apart rrom genera animals siderations, may lie in the fact that to sheep than
are often a more serious menace are dogs.

NO LEGISLATION IN P. E. ISLAND. Sheep-owners are in no way protected from
dogs in Prince Edward Island. No legislation is in force dealing with the sheep and dog question.

PARASITIC DISEASES OF SHEEP
There is no doubt but what parasitic diseases of sheep have done much to discourage this very profitable industry. It is hardly probable that
any sheep-grower can go on for any great length
gor any sheep-grower cand
of time without encountering losses from some of them, unless he makes intelligent use of the ge goes sary preventive measures.
blindly into the sheep-raising business and fails blindly into the sheep-raising
to guard his flock against infestan by the various parasites is almost certainly foredoomed to disappointment, and, in many cases, ramk. This
Sheep have been considered delicate animalson that Sheep have been come extent, but the reason hact
may be true to sone to the fact
they are considered so is largely due tiseases. If that they are exposed the same number of enesubject to the attack of might be considered deli-
mies, any other animal mity mies, Altogether, sheep have sufficient veasonable to make their raising very prots is used in guarding intelligence and forethought is not, as a rule,
them against diseases. It is them against or profitable to practice the promis either prudent or pro stock with condition powjority
cuous feeding of live medicines. In a majeducts. and patent preventive medicines. fore products;
of cases, too much is paid for these of cases, too much is paid ossary, and are not
they are used when not necesp must be guarded they are used when But sheep must be guarded
used intelligently. against disease more closely hheep free from the
mal, and in order to keep shesort parasitic de of preventive mecricines. a definite ob
to the use oused with should be usity to the use oy should be used with a dalarity.
however, they
ject in view, and with system and regul

By way of general care of sheep, they need well-
antilatid or open-hed shelter in falling weather-
hey do not need shelter in dry weather, no matfer how cold. They should never be crowded inand shut up in a close barn. They need the
hade of trees and bushes in hot weather. They ought to have running water. That from a well or cistern in a clean tank is very good. Pond water is objectionable, especially when any diseas
is present. The pastures ought to be rolling, or is present. The pastur
at least, well drained.
As to the use of remedies, whenever there is any sign of scab or sheep ticks in the flock, all he sheep and lambs ought to be dipped twice at
intervals of 10 days in some reliable sheep dip From the time there is any indication of annoyance by the bot dy, their noses ought to be kept
smeared with tar until after light frosts. Sheep smeared with tar until after light frosts. Sheep winter to rid them of the internal parasites. This is especially true when there is any indication that any of these parasites are present. It is prob-
ably advisable for every sheepman to give his ably advisable for every sheeppnan to give his
flock, during the winter and spring, a course of fincly-powdered tobacco, or the bluestone-copperassalt mixture. Of the tobacco he should use about
20 pounds for each 100 sheep, and begin giving it, in small amounts at first, with the feed late in the fall, and continue until after lambing is over. The bluestone-copperas-salt mixture, ad-
vised for the prevention of stomach worms, may he used instead of tobacco. It can be kept before the sheep, allowing them what they will eat. These directions, carefully followed out, will al most certainly protect the sheep owner from the to make a detailed study of the different parasulletin.


Home of J. H. M. Parker, Sherbrooke Co., Que.

## THE FARM.

## VITALITY OF SEEDS IN MANURE.

Experiments conducted to ascertain the vitality tract of an animal, led $\mathbb{E}$. 1. Oswald, of Maryland Agricul
as follows:
In experiments in which the manure remained 1) for six months in a barnyard heap, and (2) for a short while in piles, it was found that in the case little danger of distributing germinable weed seeds. In the experiments in which the weed seeds were fed to yearling steers, and the mat
handled in various ways, it was found that

1. When the manure was hauled directly from 12.8 per cent. of the seed fed to animals germi12.8 per
2. Where the manure was hauled directly from the stable upon the land, and plowed under, 3. Where the droppings remainod on the pa ture fields, unadulterated as they fell, an average of onlv:3.1 per cent. of the seeds fed to animals The results indicate that, in general, it is safe stroved in well-rotted manure, but that many pass unharined through the digestive tracts of animals, and may be carrie tore use. The feeding
stuffs comprised about 50 of the most dangerous The above conclusions, however, would be miseminder that serious waste of fertility by the rom the decomposition of manure. Roughly peaking, it may be said that experiments have o make one load of, rotted, and, for most purposs a load of rotted is worth little if any more han a load of fresh. The true policy is, thereore, so to arrange the system or farming that resh state to land intended for corn and other uch crops, the cultivation of which will incidentally destroy the seedling weeds.

## COLOR IN BLACK OATS

Owing to the higher price in Ireland for jetblack seed of the Black Tartarian variety of oats
than for seed which is brown or mahogany, and o the prevailing opinion that color of product depends on color of seed, rather than on soil or
cimatic conditions, the Department of Agriculture conducted experiments along this line during the past two seasons at their Agricultural Stations at Ballyhaise, County Cavan, and Conakilty,
County Cork-five experiments in all. In each test, a quantity of the best-colored seed of Black Tartarian oats procurable was purchased, and aloo a similar quantity of hight-brown-colored seed. These two samples, difiering as widely as an similar conditions of soil and cultivation. In some cases both lots of seed were purchased in Scotland, and in other instances bost were in the usual way, and, The plots were harvested

$$
\begin{array}{l}\text { without exemp;- } \\ \text { tion. in every ex-- }\end{array}
$$ without exemp-

tion. in every ex-
perlment, $t$ periment,
produce from both
lots of seed was almost identical in
color, and of color, and
equal value. This result ie taken to indicate
that the importance of good color in the seed of exaggerated, and that the color in black oats depends
far more upon the soic, climate and soil, chimate and
local $\begin{aligned} & \text { conditions } \\ & \text { than upon the col- }\end{aligned}$ or of the seed
sown. It is genersown. It is gener-
ully believed fin
Ireland that heavy, cold soils
will produce blacker oats than and that a better when black oat when $\begin{aligned} & \text { arn after po- } \\ & \text { are soes or roote. }\end{aligned}$. than after grassi While this experiment might be regarded as con-
clusive, the Department advises those whose cuich clusive, the Department adises those wh black
lom it is to pay high prices for color in bith good
oats to make trials on their own land wita and bad colored black seed. In buying seed oats. purity, germination and maturity or gration should be given.

## ON BEHALF OF THE SPARROW.

 Editor "The Farmer's Advocate ": Though it has been said " we are all borpsavages," never did I think to find a correspondent of "The Farmer's Advocate" enforce and en dorse such an academic evolvement of savage cruelty to our hardy, homely, importod, twitter ing sparrows, even to a bestowment oo pubiic
honors and school adornments by robbery, a la honors and school adi because they must thieve to live through our arctic winters. They do have little that get the good of it all; sure its beter miss't, as Poet Robbie rhymed it. My earliest and nearest-heaven recollections are of lying
a wake in the summer mornings, to look out at wake my nearly ivy-covered window to see thy, it's little more than a score years since we hailed their ar-
rival in Montreal, and their adaptability to new rival in Montreal, and their adaptability to new
circumstances and conditions. Surely we can circumstances and conditions. Surely we can
rise above the " daimen icker in our thraves. A youngster (sure fit to be a colonel in the new brigade) got into the barnyard, and was doing a
bit of polite swearing, as them sparrows would hot rest to be shot at, when the chickens' owner, not rest to be shot at, when the chickens onde as
little rest for him till he reached the highway. hise. Co., Ont.

WOWEN UNDERTAKE TO ERADICATE RAGWORT In Nova Scotia, the East Pictou Council of
Womenen have for two seasons waged war against in a dry stateed which, being eaten by cattl means of prizes to children for pulling the weed Much already has been done, and were it not for apathy on the part of many farmers, it is claimed
the results would have been much more encourag ing. In the summer of 1907 , between three and four millions of the weeds were picked and burned 179,000 stalks. In 1908 the same boy was able to find only 82,000 , and claimed that the weed was not nearly so abundant in his locality. Th prizes were given for the largest collection, an
for the best average in the school. In 1908 a change was made, allowing five cents for every thousand weeds, and awarding special prizes to
the five who headed the list. This is said to be he five who headed the list. This is said to b
the most feasible plan. The first prize was wo on a total of 110,000 weeds. Two millions were
destroyed by 39 children destroyed by 39 children, at a cost of slightly
over $\$ 100$. Writing
dent. states: ". Every worker Advocate, the presi we hope for much better results next year. and small brigade of boys is formod in a section, and eradicate the weed from their locality. The ex termination of ragwort from Pictou County is a big undertaking, but the Women's Council, having put their hand to the plow, ar
sible, to push it on to success."

## SIMCOE COUNTY FARMSTEAD

Up-to-date farming means fine homes, and, as a general rule, fine homes are found where modern where brains are used in connection with the work. On the farm of T. W. R. Arnold, of Simand surroundings would seem to indicate that energies have not been directed towards swelling
the bank account at the expense of comfort for man and beast
The brick house shown in the accompanying il lustration was built in the sixties, and was th second of its kind in the township of Essa. N
alterations have since been made. The third gen eration of Arnolds now occupy it. Hedges and
trees add much to the attractiveness of the home The main barn is $36 \times 90$, with two threshing are covered with wire-edge ready roofing. are equipped with tracks for hay fork and slings. Stabling accommodation for horses and cattle is
provided in the former, and in the latter, hog provided in the former, and in the latter, hog
pens of modern construction, with cement floor and troughs, are found. A windmill supplies water for use both in stables and house.
The total area farmed by Mr. Arnold is $\mathbf{1 7 5}$ the home. A creek runs through the pasture area, and all cattle except milch cows are kept
there throughout the summer there throughout the summer. The crops grown
betoken mixed farming. Each year's crop runs betoken mixed farming. Each year's crop runs
about 20 or 25 acres of fall wheat, 15 acres of barley, 20 acres of oats, 6 or 10 acres of peas
about 4 acres of roots, and a fair-sized field about 4 acres of roots, and a fair-sized field of
clover for hay, or for plowing under. Occasionalclover for hay, or for plowing under. Occasional
y a second crop of clover is threshed for seed The returns from the fields for 1908 are approximately 700 bushels of wheat, 300 of barley, 100
of peas, 500 of oats, 6 loads of sheaf oats, 28 of peas, 500 of oats, 6 loads of sheaf oats, 28
loads of hay, an estimated yield of 20 bushels of clover seed, 22 loads of sugar mangels, and 15 oads of turnips. In addition, there are 12 acre n hardwood bus
Cattle, to the number of 25 or 30 , are goo
grades. Six head of three-year-old steers an heifers that came off the grass land in thrifty condition will be fatted for the January market. The
proposed ration comprises wheat chaff, pulped oots, and grain rations of oats and barle chopped. Occasionally, clover hay or cut oa sheaves will be given for a change. From 15 to 25 hogs are usually wintered. This season mos
of them were sold in summer. Other litters wil ome in March. Five work horses and a drive are considered ample. The manure from the stables and yards is applied by means of a spreader in liberal quantities on the root groun
and on that area that is being plowed for wheat Advise your neighbor to subscribe now to
The Farmer's Advocate," and make sure of get
ing the 1908 Christmas Number along with his
year's subscription. By sending two new names
iccompanied by $\$ \mathbf{\$ . 0 0} \$ 1.50$ from each), you hay have yeur own subscription extended


Seven-headed Wheat
Grown at Ontario Agriculturul College for 13 year with an average yield lower than Red Fife or
Goose. As was stated in our last issue, the now notorious Alaske wheat belongs to the
same species, and is much similar in
appearance.

## THE DAIRY

THE HOME MARKET FOR CHEESE
The rapid increase in our population is likely of all the cheese which we minufacture as we are likely to decrease, rather than increase, our output of cheese each year from now on. The
growth of the milk-condensing industry is factor tending in this direction. industry is one IS THERE ANY REAL DIFFERENCE BFTWEEN THE DEMANDS OF THE CHEES ODSUMFR in
areat britain and can
We hear considerable about certain kinds of rhesse being all right for the home market, but insuited for axport. Is this really so ? After making due allowance for the difference in indiextremes and more varied differences in the old Land, as compared with C'anada, a new coun-
try, our judgment is that a cheese which will suit ry. our judgment is that a cheese which will suit the taste of the "averace" man or woman in full understand the causes and that we do not


Home and Farm Buildings of T. W. R. Arnold, Simcoe Co..
times a cheese appeans biv
anatysis, it max be cabluow anatysis, it may be abberin
age in moisture qumbemic. soluble caseous matherr cheese to be high imn tuhis thought to be maistum
of the nitrogemous ofr
cheese. We freaquentituy
where an extram ampunntic mein renne
ing that rennet iss amo sactive agent used, indicatthe change knowm ass acuring.
the change kmown ass "co curing "" or ripening.
In most casess, hrowewer, dry or soit cheese are caused by the absamuce er presence of moisture, hough in somet qussas
may be due to an in-

Ting in solution walluable food constituents, like milk, sugar, ash or mimerral matter, albumen, and
some casein, its the moost common cause of he phenomenon undirt coumsideration, we may briefly look at the crandiuisions which determine the
amount of moistuume held in curd and cheese under normall canditrijems.
First, is the proprertion and character of the
casein, which iss uctued rupon by tbe rennet, and casen, which the camier amid holder oi all other milk
becomes the
constitutents floumn im the cheese. constitutents foumid im the cheese. Some milks
appear to have crassam weatter adapted for holding appear to have cuassum better adapted for holding
and carrying tham wothers. Milk properly carer for in the wayc off crewiling seems to have this prop erty in a gneaterr doggree. Our investigational work during the thast season (1908) would lead
us to believe thate at certain times the milk is deficient in ithss mamual proportion of casein, con sequently the exemage from such milk is high-
i. e., it taikes mone quounds of milk to make pound of cheese
with reference toons the the play an important part the curds and ethe The The tendency is for cheese
 much lactio arciid crausses undue and rapid contraction of the prantrivides oi curd, causing an ex cessive expulision off whe water in the cube of the resort to vantionuss mperms for checking the acid such as rapidd heratimes, earlly removal of the whey washing the curdis, corolking to a higher tempera ture than usumul, etic. proper control of the lac-
tic acid is a wempy important point in making fine cheddar cheasen. Fher this purpose, we know of nothing so usafull ass the acidimeter, along with good senser. the thimd cuase of dry cheese is the by most Camadion etheesemakers. We are well aware that an thiss paoint we differ with a number of good mem semd proxatiinal cheesemakers whose have " made gooed" $n$ " in their practical work, but have "madit ge may be allowedd the say that, in our judgment, wuch needilesss emengys, parspiration and cheesemaking materiall ane amually wasted in stirring нод

MOON OF CHEESE NOT
So far ass wee kanow, there are no statistics vo far ass whe hanow, there are no statistics local marksets, buat allt are agreed that the present
consumption apold lime imeterially increased if the right kindi of atheerse were ofiered. This was the nanimous apionion ofi the Manufacturers' Association on an meremit wizisit the the Ontario Agricultural College. Adill agreerd that ii they could buy cheese
like the samplie ssupplied to the visitors at the ike the samplie ssuppliced to the visitors at the Dairy Depantumentit, sthey would parchase for a
more. ©me main ssaid the was coming back for whole cherese, if in would be got. This is cited
as an illustration ofl what might be done by supas an illustramtion oif what might be done by sup-
plying the righto Hoind wif cheese-not culls for local trade.

METHOD ©F PASTEURIZING WHEY Editoniaulss ampl correspondence dealing with whey pasteunivation, appearing in the columns of 'The Fammerts havocate sure cheesemakers $\%$ reequest that wee griwe concise directions as
most approwed method of doing the work. The method witil haw the be regulated by conditions and whey tumbly fare mecessary. Any device where by steam cemn be dirrected into the tank will answe the purposen. (if ceurse, a thorough distribution of the steam ing the whey ome makers find it coo and regubur heading. the heatinge. Agstain, the use that can be made
 equipment han the tomperature of the whey raised to 150 or 1553 deaphees, so as to prevent the crowt tion of higit sacid, and also to inhibit the growt. of bactenime whildh may be present in the whey
Higher temp whature than 155 degrees is injurious Higher tempermature than 15.5 or 2.0 per cent. in when accict drexceltopped 150 or 1533 dagerrees, showed only $2 \overline{3}$ per cent.

## mptsing oi the whey tanks, and strict cleanli-

 armather hating might result in moreIhe season's work shows that

DAIRY PROBLEMS DISEUSSED AT SIMCOE. The thoooughness with which dairy interests ion and dairy education in Ontario, was evidencer 24 th, which a representative of "The Farm-
Advocate" was privileged to attend. In er's Advocate " was privileged to attend In
addition to a most interesting summing up of
(anadian cheese manuficture in the various Provinces, there were discussions on problems old and
new, which showed the intelligent interest taken in the work. The only regrettable feature of the
meeting was the fact that every maker and ever meeting was the fact that evers maker and every
patron within a radius of eight or ten miles did
not cast other cares aside for a single afternoon not cast other cares aside for a single afternoon
and partake of a real treat. The chair was occupied by J. J. Parsons, of men's Association. In opening the meeting, he
pointed out the importance of holding such meetpointed out the importance of holding such meet-
ings, and asked all to take part in the discusIn dealing with the output of cheese in the various Provinces of Canada, Frank Herns, of
Iondon, (Chief lairy Instructor, said that Canadian cheese factories in 1907 manufactured 102 ,
394 tons. Of this total, Ontario factories turned


Minnie.
Unregistered - Shorthorn cow. First
trial, London Dairy Show, 1908. Milk yield, one day, 80 lbs. 15 oze;
out 64,846 tons. Western Ontario made 16,827 out 64,846 ne-third of the total output of Ontario
tons, or one Eastern Ontario made 48,019 tons. Western Onof the total quantity of cheese produced in Can ada. The greater or less output of cheese from Western Ontario, caused by climatic conditions therefore, does notably, as some have been led ket as much, probeing acquainted with the facts. Quebec made 34,943 tons, Manitoba 633 tons, New Brunswick 602 tons, Nova Scotia
Alberta 99 tons, and British Columbia 45 tons. The manufacture of dairy products during recen years indicated that Western Canada, as well as the Maritime Provinces, were directing their energies to manufacture of cheese.
manufacture of cheese. Western Ontario showed
The organization in West 200 factories in six groups, and seven factories

in addition in the Orangeville district. The 200 in addition in the orambens, whereas 73 creamfactories had 14, 295 patrons, whe average was 81 | patrons to a factory, and an output of 83 tons |
| :--- | patron. Throuchout the season of 1908 attempts had been made to secure accurate data regarding the per cent. of fat in milk. The average was as cent. July, 3.38 per cent.; August, 3.5 per cent: September, 3.65 per cent.; October, per cent For the season, the average was 3

Further interesting figures were given, showing Further interesting figures were given, showing
the loss of fat in whey. In the past, various
guesses had been made, but the results of between five and six hundred tests, from every factory in
Western Ontario, covering every month from April to October, gave an average loss for the season of 23 per cencent.; June, 223 per cent.;
was: May, 226 per cent.
July, 226 per cent.; August, 236 per cent.; September, 23 per cent.; October, 241 per cent. The of cheese in different months was not affected by loss of fat in whey during the cutting and cool
ing process, as much as by improper manipula ing process, as much as by improper manipula
tions of the curd later, and by improper conditions of the milk.

PASTELRIZATION OF WHEY.
Satisfactory results had been derived from the heating or pasteurization of whey. Of 56 facCories where pasteuri,ing had been practiced, the
whey went home sweet and clean from 38. Judgwhey went home sweet proper pasteurizing had not been done at the remaining 18 factories. As regards the economic side of whey paste irization, Mr. Herns said that, ir whey of fat reaching the heated, the average per cent. ont. In pasteurized whey the fat remained evenly distributed, and the average in that returned to the patron was about 23 per cent. No person seemed to have ascertained
he true feeding value of fat left in the whey from he creaso factory hut a calculation at 4 cents $\begin{array}{r}\text { a } \\ \hline\end{array}$ $\$ 1.80$ per ton of
che ese, provided
that the whey was that the whey was pro perly pasteur-
ized, and assuming that 23 per cent.
fat was returned. Where not pasteur-
ized, and whey returned under ordinary conditions, as-
suming .09 per cent. fat returned, the
value would be only 72 cents per ton of cheese.
be worth
It
less or or be worth less or
more. As regards
the comparative valhes of pasteurized and unpasteurized
whey, he could judge o n 1 y from what the makers
und men who fed it und men who fed it general opinion was that pasteurizing made the whey
more desirable for feeding. It was certain that the whey was kept swe Ac-
by the heating.
cording to reports cording to reports
from the season's work, it would pay
patrons to arrange pattons the makers to
with to pasteurize the whey
before returning it The cost might range from 50 c . to $\$ 1$ per to of cheese, depending on the
which the work had to be done. CONDITYON OF WHEY TANKS. revealed the fact that 59 Fhequent inspection revealed a week, and leept in satisfactory condition. Sixty-eight were

cleaned every two weeks, and were in a fair state of cleanliness. Others were cleaned once a month. Experience had shown that the quality | of the milk was injured by sour or unclean whey |
| :--- |
| being in the cans. Why, therefore, could not | being in the cans. Why, therefore, courd whot makers and patrons arra

Mr. Parsons.-I know of factories where it is impossible to take time to clean the whey tanks.
The fact is, whey is ready for the tank before the tank is empty. Mr. Herns.-Something should be done to provide for such cases. It may require a small
extra tank. There were eleven factories at which the whey tanks were not cleaned from spring to fall. Strange to say, eight of these are in one section. Some of the eleven factorymen contend
that if they clean the tanks they will have bitter that if they clean the tanks they will have bitter
flavors. This argument will not hold good. It has been proven, too, that pasteurizing does away
with bitter flavor. with bitter flavor.
Mr. Parsons stated that he was planning to Mr. Parsons in two tanks, to be used day about, and the empty one cleaned thoroughly each alternate day. He believed pasteurizing the whey would do a
much to improve the quality of cheose as cool much to improve the qualitter, reports from the curing. Regarding the latter, reports from the
Old Country showed that cheese put in cool-cur
ing rooms reached the consumer in better con
dition than non-cooled cheese. The buyers, how ever, slould encourage such methods. Last year in Prince Edward County, they had paid one quarter cent extra for cool-cured cheese,
cently little or no distinction was
Mr. Herns.-The construction of cool-curing rooms in Western Ontario seems to be at a stand-
still. Patrons will bave to bear at least half the cost. Under present conditions, the proprietor cause or other, and then mat have enough chees cause or other, and then not have enough distribution of whey
As to pasteurizing whey, it was pointed out teurization, and then get no whey. Something should be done to guarantee every patron his
share. It was not fair to turn all this work of share. It was not rair to turn all this work of patrons should attend to the distribution of the
whey. Some factories had a man to deal it out whey. Some factories had a man

The difficulties that arise by the use of alka line solutions not being of uniform strength were mentioned by Mr. Herns. It was suggested that
arrangements be made to provide standar arrangements be made to provide a standar
solution to makers. A local maker advise that those interested make their own solution He had made his own alkali, at low cost, and Herns stated that some had urged that
instructors provide the solution. They could
then be absolutely sure that no damage would result from the use of solution of wrong strength sidered that a competent maker need not be fooled by alkali solutions of wrong strength for very
many days. There were three or four times in many days. There were three or four times in a meter was commendable, but too much confidence
should not be placed in its use. The hot iron should not be placed in its use. The hot iron, of mistakes in the strength supplied by druggists solution from reliable sources, and taking ever precaution to avoid errors that had resulted fro one cause or another.
Discussing defects in
defects in cheese during the hot weather, Instructor Travis reierred to the small
round holes so frequently found. He said that methods should be followed that would avoid the defect, but it was a difficult matter to discuss
them in such a way as would equip the maker aiways to overcome the difficulty. It was, how ever, largely due to drawing down the whey to surface of curd too soon. The best plan was to
leave all the whey in the rat until the curd was fairly ripe, and then, by means of a large siphon, remove it as quickly as possible.
Mr. Parsons.- Would you advise the use of the quarter-inch knife
curd.
particularly for fast-working Robert Green, of Cayuga, Instructor for the the quarter-inch knife. In the spring, he ha found difficulty in inducing makers to purchase one, but before the season was ended all wer convinced it was the proper thing. One of the
makers said he would not be without one in his factory if he had to pay for it out of his own pocke
APPRECIATE INSTRUCTOR'S SERVICES.
As a slight token of appreciation of the good
ark done in the Simcoe District by Geo. Travis. work done unt ins, and also of the Department Agriculture in supplying such instructors, the fol lowing letter, signed by the proprietors and the " Inasmuch as the Department of Agriculture has shown its deep and practical sympathy with the dairy interests of our country, in setting
aside a grant to provide for further instruction and educa esteemed instructor. Mr. (ieo. Travis, whose energy and counsel has already told so farorably
on the dairy interests of this district, we, the proprietors and makers of the cheese and butte record our approval of the above-mentione course of the Department of Agriculture. and ex-
press our thanks and satisfaction for the benefits

KWIFE BETTER THAN EXPECTED Your valuable premium to hand all safe.
a first-class knife, far better than I expected is a first-class kinite. Fentworth Co., Ont

Farmers Association is t

PROBIEMS OF THE DAIRY

## CREAMING mLk.

he dairy, each separate step must have intelligent FEEDING COWS WITHOUT SILAGE OR ROOTS
$\qquad$ has been given to the cows and the milk, that often in the method of skimming a serious loss of butter-fat is sustained. When a person expresses regret at the loss, the old-time excuse is still given : "Oh, well, the skim milk is good for the pocketbook standpoint. Butter-fat is worth irom 20 to 30 cents per pound, and we want to get just as much as possible of it out of the milk.
and substitute a cheaper fat for the calves. The oldest method of creaming milk, and the one which recommends itself the least, is the the milk exposed that the danger of contamination from the dust and odors is grea It is a pretty sight to look into a clean, whiteshining tin pans filled with rich milk, but too cellar, or on the pantry shelves off from the kitchen, where the milk gets the full benefit of the cooking fumes, etc. If we want inne-favored must be clean. I have tasted the night's milk decidedly musty in the morning, from being kept overnight in a cellar which had no ventilation. Theep in the pans, and should set at least twentyfour hours before being skimmed; but the cream should be removed before the milk thickens. To
skim, loosen the cream from the pan, lift the pan to the top of the cream can, hold back the cream wet the edge of the pan, then cuickly glide the sheet of cream into the can. No not use the oldnot thick enough to glide off, then skim it with a large spoon or shallow saucer
Good skimming should
Good skimming should not leave more than. ${ }^{3}$ Where only one or two cows are kept, the shallow. pan system is the most convenient.
Before the advent of the cream separator, the deep-setting system was much in vogue. To get
the best result from the deep cans, the milk should be immediately strained into the cans, and reaches. The effectiveness of the creaming de-
pends on the terner lenglib of time the milk stands before being drawn off. Unless the cans stand in a running spring, with the water below 50 degrees, there should be mer and winter. The water should be kept sum a temperature between 40 and 45 degrees, and the milk should stand twenty-four hours before the
skim milk is drawn of. To set the cans in a tub of well water. or outside in the air. or on the cellar floor. and draw off the milk at the end of
twelve hours, simply means a loss of about half the cream. Under favorable conditions. not the skim milk, but this means the cans must stand in icewater twenty-four hours, and be carefully handled, so as not to mix the cream
with the milk.
Where a sufficient number of cows are kept, a separator is the proper thing to have. It is
hardly necessary in these times, to enumerate the advantages of a separator over the other methods
of creaming milk.
I cannot help vour readers in the selection of I cannot help your readers in the selection of
a machine. There are many relialle makes. do
ing equall good work. The more important part is to make a study of the machine you do buy, Put the machine up in a clean. convenient place Have the foundation level and solid. Tse
only the best of oil and see that all the necessary parts get nlenty of it. Ciet up the speed slowly.
Put a little hot water throuch to heat and wet
$\qquad$ On degrees To overheat it doos not mattor
but clean skimming cannot he done with cold
milk. The soeed should be evenly maintained thrnuchout the run. Give a fow extra turnc of
the handle per minute. rather than fall helow the
tabulated number I think many do not keep up ahnuated number. 1 think wany do not krep up
the cpeed of their machinec. and so lose an un-
nerossary amount of fat in the shim milk. Fluch nerassary amount of ?at in the shim milk Flach
cut the bow with warm watar at the end of the
run. to remove all the cream from the how in less the machine is providod with a hrake, do not
try to check it whon ranning down. my cows for milk. I rav no roots, no silage, and no clover hay. I have
plenty of oats, and abundance of good clean tim plenty of oats, and also good oat and wheat straw. Would fou think it a good plan to feed these whole, an bran and chop dry, or would you cut and anix
I am very desirous of feeding to the best advanam very desirous of feeding to the best advan
yOUNG FARMER. As the straw and timothy hay are distinctly car bonaceous feeds, it will be necessary, for best re
sults, to supplement them with some more strictly sults, to supplementrate than oats, although nitrogenous concentrate than oats, although
chop may constitute half of the meal ration. W chop may constat suggest as roughage, say, two parts hey and one part straw, preferably oat straw,
course, the proportions may be varied at the dis course, the proportions With this, feed a mi metur of two parts, by weight, of oats, one part bran, and one part oil-cake or cottonseed meal. The amount of the meal ration per cow may be porid
according to response. Six to eight pound would probably be about right for a cow giving a fair flow of milk. It is a question whether it wil pay, in the long run, to bother mixing feeds.
the feeder has time to spare, it might, in the ab the feeder has time to spare, it might, in the ab
sence of roots or silage, be worth while cutting a part of the hay and straw, mixing in a tight box provided with a lid, and steaming by pouring hot the steam. A handful of salt, and a proportion of the meal ration corresponding to the minimum fed to any cow, might be advantageously include with this steamed feed, the rest of the daily meal
allowance to the other cows being thrown on top after each cow's moist feed has been deposited in the manger. There is no doubt that the steam ing and mixing of part of the feed in this was
will stimulate the milk yield somewhat, especially for a time, though the permanent effect may no be enough to pay for the labor involved. The writer has prepared cut cornstalks and clover
chaff in this way, apparently with marked results the first season, but the second winter it did no seem to be of so much advantage. Probably some of the assumed effect the first year was due to better and more regular care of the herd, a
companying the adoption of the above idea.

## DAILY VERSUS IMTERMITTENT RECORDS.

The question of keeping records is a very important one for all owners of cows. This is Decognized by the Dominion Government, and the given in the formation of cow-testing associations C. F. Whitley, who has charge of this work, ha been very active and enthusiastic in urging dairy In April of last year the Milton Cow-testing Association was formed here, with about twenty-
three members, who all obtained their outfits. With the exception of paying for their outfits. outfit, all other expenses are paid for by the gear mant. We fully expected that within the would doub more would join, and the association telligent dairyman will dispute the usefulness such work as is done by these associations. No one can carry on dairying successfully without sure of only good cows, and the only way to be it, as well. Little time is taken, and one knows exactly the value of each cow.
Our surprise is great. then, to find that, in place of increasing its membership, the Milton
Cow-testing Association has lost, and now can number only about ten members. This opens up a question for thought, Is this the history of
ot her such associations? It would be interesting testing associations formed in the Dominion, cow ber of members in each at formation, number a end of one year, and number now, toget her with a ence. Then we will have facts upon which we can judse as to the popularity of these associa-
tions. If others are as little appreciated by the
dairvman as our ion dairyman as our is then we should inquire into remain as members here are well satisfied, and de ay joinntinue. and it may be that soon others any. have felt it necessary to dispose of thei wat have no such colvs, or it mav has be that all ew... man if unc intered into the records. No of all the ef all the ef-
Department y records by records out of

DECEMBER 3, 1908


ONE ASSOCIATION OR TWO
It has been suggested that dairying in Eastern Ontario has developed to such an extent that no longer can ind class of agriculturists interests of that it is not probable that any ac to advantage. do the work that for years has been under the supervision of the Eastern Ontario Dairymen's Association. In fact, it would be folly to do so Too much machinery is worse than too little. With due care in selection of men for the edies cutive, one to be considered by that organization as well as two-or, half a dozen, for that matConventions and district meetings are commendable. If, however, it were agreed that ontario, that could be done without the formation
of another dairymen's association. Again, if a greater number of district meetings are desirable, they can be arranged by the executive of one
association. There are many lines of work that can be undertaken, and that will benefit the dairyman, but all this can be accomplished by the
Eastern Ontario Dairymen's Association with enEastern Ontario Dairymen's Association with en-
thuciastic men in charge, and a due co-operation
with the other forces that labor in the interests with the other forces th
of the dairy industry.
U. S. MILK CONSUMPTION.

According to a statistician who has taken the trouble to figure on milk consumed annually in vital one, affecting the production and consumping an annual supply of over 100 gallons for every man, woman and child in the country. This amount affords 1.1 quarts a day for every individual, which includes the milk used in making
butter and cheese. The actual amount of whole milk consumed each day averages about 65 of pint for every individual. The value of this product for a year, at retail, This is about one of 2,500 , of the entire wealth of the nation, five times the wholesale value of last year's wheat
crop, nearly twice the value of the corn crop, and over one-third of the entimated at 7.400,
products for 1907, which is estimater products for 1907, which is estimated at dairy
oon,000 dollars. products last year was estimated at less than 10 dollars, which would allow a price of less than cents a gallon for mikk at
retail price of 7 cents a quart was assumed, whic is probably a little below the average price.

MOST HELPFUL PAPER IN THE HOME pril, 1908, to April, 1910. I consider you paper the


## POULTRY.

## EGG-LAYIMG COMPETITIOM.

Irish poultry enthusiasts have ant egg-laying ompeticion considerable prorportions unde
One hundred pens are emtereal amd six pul lets have been placed in eacct pems. To derive the greatest benefit possible, it has Deem deemed ad-
visable to give number of egss livid. weight of eggs, and value of the produce: The results from


## AGAIMST FORCED MOULTIMG.

 The results of a series of experiments in con-and caring for nectultry, as well as comparisons inime might of eggs from , the various breade head the ipenstyvani
Stale Agricultural Experimemt Station to sum up State Agricultural Bxpermemt staviollow : 1 L. Large breeds, in grewral peat more than small ones during the growing perioul
2. Early-hatched ctuids grow fustur 2. Early-hatched chichs grow faster than late
hatched ones. Ap-ril list sems to bo desirable hatched ones. April stist seams wo (temsesylvania).
time for hatching in this latritudr 3. The amount of feed required to produce pound of gain increases as ap approach
maturity.
theween the ages of 6 and 13 weeks, it re
 of gin. Between the eges of 13 and 26 weeks. pound of gain.
5. Chicks forced when youm do mot make as rapid growth as they aption
fed a more moderate ration
red Chicks weighing less than one pound seem to grow faster on a wet mashi : those weighing pound and a half or more do best on dry feed 7. The loss among chiridsis on dry feed, even when weighing less tham ome pound each. 8. The slaughter tests pialicatud that the American brod or Asiatic breeds, and Uhat, in genMediterranean or Assiaticetter than cocckerecls. When rather small, weighing less than 34 pounds live wight, the cockerels of the Moditurranean and
wintic breeds seem to diress out better than the pullets. 9. Forcod moulting seemed to first depress, then slightly increase eges produchon, but the net results at the
forced moulting
10 Eggs set about Apprill list
 of their weight, were as follows : Bhack Mer Morca,
Light
Brahma. Barred

pend upon the strain, as it is known that some
hens of any breed normally lay larger eggs than others of the same breeds.
12. The weight of chicks when hatched does not 12. The weight of chicks when hatched does not
seem to be in direct proportion to weight of eggs.
combating mites and lice. Dealing with lice and mites, so frequently found in poultry houses that are not properly cleaned the United States Department of Agricula
sent out the following : There are several varimainly on the feathors, poultry. They subsist mermal scales. They are and perhaps on the epida and neck, under the found largely on the head and neck, preseat in large numbers they cause the fowls much discomfort. Persian insect powder (pyrethrum), powdered sulphur, and some of the various prepara tions on the market, such as the louse powders, are good in combating these pests. The hens can be dusted with one of these powders arter they have gone to roost. Have the powd fowl by box with a perforated cover, grasp the fowl the the legs, at intervala form atch the lice which hatch out after the first dusting.
The mites subsist on the blood of the fowle, and are not usually found on the bodies of the bird, except when at roost or on the nest. Dur ing the day they inhabit cracks and crevices of the walls, roosts and nests. often so annoyed that they are comperes of these the nests in order to relove the about the parasites. aests and perches is usemay be sprayed with kerosene, the operation boing repeated every three or sene, the opera wo weeks. Insect powders are of little avall.
The following method has proved excellent in ridding houses of mites and lice when the weather
conditions are such as to permit the birds being kept outside the house for five or six hours. Close
all the doors and windows, and see that there are all the doors and wopenings to admit air. Get
no cracks or other or
an lron vessel and set it on gravel or sand near an center of the house i place a handful of shav
the cent on one
ings on these, sprinkle sulphur at the rate of one ings on these, sprin or 100 square feet of floor
pound to every 90 or pound to every of using the shavings and kero-
space. Instead of
sene, the sulphur can be saturated with wood sene, the sulphur can thing else is in readinese
alcohol. When everyth light the material and hast about free, a glane through a window will show whether every fre
is all right. There is very little danger of fave when proper precautions have vessel. Allow the house to remain closed for three or four hours, at the end of which thime one can inside. Now throw that there are no drive out the sulphur fumes thoroughly, and then the fowls may be allowed to enter.
one by one, and as each enters catch and duat it well with insect powder, which will destroy to use instead of insect prowder. The birds on trom trin for the house have now been freed from vermin not hees destroyed, and in a week another swarm
Therefore, it will be necessary to hatched out. Therefore, it wilice before the peets repeat the operated. After this, care should be tal
are exterminated. en to see that no strange having been thoroughly house or ya
the rest.
OBJECTIONS TO INBREEDING. The North Dakota Experiment Station, after ing out the effects of inbreeding in poultry, report that 13 out of 16 eggs laid by three inbrew grade pullets, and 10 out of Rock pullets, were inbred
hatched.
In each case there were 8
8 chicks. Twenty-one out of 26 eggs, and 22 oud of 27 eggs, laid respectively by 2 and 8 yeer-ine
hens and $t w o$ grade pullets (not inbred in elther hens and two grade pulets and none of the chleli
case), afso were hatched, and no
were deformed. For four months another recond case, afso were hatched, For months another record
were deformed. For was kept of the egg yield, and from four inbred yearing hens the ar average
42.5 eggs per hen, as compared with an 42.5 eggs per hen, as compared wase of three
egg yeld of 60 per hen in the case 2 and 8 years old, not inbred. The inbres.
were very erratic in their performances. are said to have laid hea
to have ceased for a time.

## GARDEN 湓 ORCHARD

CANNED TOMATOES AND THE RETAILERS.
With reference to the canning industry of Canada, the opinion's of retailers, or the men who
pass the goods on to the consumer, are interesting. Naturally, they wish to do the maximum amount of business. The greater the number of cans of tomatoes they hand out to consumers, the
more businesslike it seems to them, provided they can make a reasonable profit in doing so. other words, the retailer prefers to sell at reasonably low price, since that factor has much
to do with quantities disposed of. The counter price of a few years ago (three cans for a quarter) was within the reach of all, and large quantities of tomatoes in three-pound tins found ready purin consumption was noticed, and the producers of the raw product had an ever-widening outlet for the product of their tomato areas. Everyone conditions. Growers considered that, since they did the bulk of the work, they should get higher prices, but the promise of a keener demand had a In those days, the threepound
toes were supplied retailers at 70 cents tomacents a dozen, and some grocers aver that they purchased them below those figures. On the penses left no profit, the price has been advanced until retailers have been forced to pay as high as $\$ 1.35$ per dozen or cease handling the goods. In a few instances no orders were given. With this
advance at the selling end, it would be expected that the grower should receive some extra allowance for increased capital in land of higher value and for labor, which costs him more. But does
this advance of 30 cents to 60 cents or more a dozen find a corresponding advance in price for
the raw product? In some cases a slight raise has been experienced, but it is. very slight, compared sell at the former price of three tins for quarter, and thus increase the volume of his business.
". Canned tomatoes should be bought at 85
cents a dozen for three-pound tins," said prominent retailer in Toronto to a representative of ". The Farmer's Advocate,", recently. "" This
would allow us to retail them at three for 25 would allow us to retail them at three for 25
cents. We used to get these goods at 70 cent to 75 cents a dozen, laid down. The extra 10 cents should be sufficient to cover increases in cost of labor, etc. Insteat of that, in 1906 and 1907 we have been obliged to pay $\$ 1.17 \frac{1}{2}$ to
$\$ 1.27 \frac{1}{2}$. This year the price has been dropped to $\$ 1.00$. Independent factories are opening, and, besides, some retailers refused to buy goods at
such exorbitant prices and under conditions arranged to the manufacturer's advantage in every particular. A representative of the manufacturer comes around in the spring to ascertain how many dozen or how many cases will be required. The goods in the fall or early winter. The retailer is obliged to take every can ordered, but if the company feels incent. of the order. They do their best to hold the price up, but sometimes come down when it is realized that the retailer can do better elsewhere. Independent companies give runs about 10 per cent. But the dimculty io that many consumers demand a recognized brand, and the new company finds it hard to dispose of its output. Besides, some representatives of the
big firms do all they can to injure the smaller companies when they are among the retailers." In reply to a question as to increased sales
with the price at three for 25 cents, this retailer with the price at three for 25 cents, this retailer goors if they were put in to me at 80 cents or
85 cents than $I$ can when I pay $\$ 1.15$ or higher. At present, the customer buys other goods take the place of tomatoes, but the tendency is ". In regard to canned goods." said another prominent retailer of Toronto, "we are at th mercy of the canners. In years gone by I have
bought tomatoes as low as 50 cents for a dozen three-pound tins. Within the past few years the price has gone as high as $\$ 1.35$. They take the order in the spring, while the crop is still un-
grown in the field, and guarantee that the price will he all right, but in the fall the price is set dependent on the pack. If the supply is limited, the price is put up. I consider that 80 to 90 cents a dozen should be fair for an concemed.
would think that the canner could pay the grow or at least 30 cents a bushel, and we could sell at three cans for a quarter. Last year's prices were so outrageous that about 50 per cent. the trade couldn't buy. The result was a ners want four or five factories to run the business, and, in doing that,
both farmer and retailer

It is a diffcuit situation to remedy. I be lieve there are many retailers who prefer to sup
port independent factories. These might join to gether to guarantee the co-operative factory
market for their goods, which can be bought a 10 per cent. reduction. If, however, the canner remove the duty from canned goods. Evidences of a corabine should be sufficient to allow goods come in free of duty
But, with all the
But, with all the advance in prices, the pro
ducer has to be content with the old figure. The ducer has to be content with the old figure. The
canners still claim they can't afford to pay more than 25 cents, or, at most, 35 cents a bushel for
tomatoes. Surely, with an increased return of tomatoes. Surely, with an increased return ould arrange to pay the man who does the work a little more. But perhaps the grower is making
sufficient profit if he gets 30 cents a bushel. What sufficient profit if he gets 30 cents a bushel. What
we want is high-class stuff at price. If I got my tomatoes at 80 cents or 85 cents a dozen for three-pound tins, I could sell
fully one third more than I dispose of when they cost $\$ 1.15$ or $\$ 1.20$, or higher." interviewed by ./ The Farmer's Advocate,., were interviewed by were given. It was considered that high prices
curtailed the canned-tomato business by 30 or 35 curtailed the canned-tomato business by 30 or 35
per cent. One grocer said that, while he could buy at lower prices from independent companies, they usually advanced their figures, keeping them companies
This is the opinion of men whose sole duty it is to dispose of the goods made by the canners
from the raw product of the farmer irom the raw product of the farmer. To them,
the price should be a matter of little or no concern, provided they sell sufficient quantities at handle the goods. The questions of greatest import are: Does the producer get enough to
pay him for growing the crop ? Do the cann have a reasonable margin for manufacturing and placing the goods in retail stores? Are retailers
in a position to sell at such figures as will recult in a position to sell at such figures as will result
in the maximum consumption, after giving a fair profit to growers and canners, as well as to themselves

## METHODS IN APPLE ORCHARD.

Apple-growing may be treated under four heads, viz,: Propagation, Training, Pruning,
Cultivation. be considered under four heads, according to methods adopted, viz. : From seed-the method usually adopted by nurserymen when raising new July ; and by grafting, in April. As to training, apple trees may be induced to grow in almost any shape or form. A start
should be made with the year's growth from the graft) for the desired shape. If for pyramid, prune away all but three main branches, viz, a leader, and two side ones.
Afterwards, shorten these to about three buds. then treat the second-year growth in a similar es of each year's growth, to be cut back to about six inches, the idea being to have fruit spurs set
as quickly as possible. The leader of each year's growth must be higher than the branches. This form is used very largely in the fruit-growing
districts of England. districts of England.
In training for bush form, prune to get three main branches, as in pyramid shape, but prune grow too long. Also leave the middle of the tree six or eight branches, the idea being to induce each to branch at about equal distances all round so that each branch gets its share of light and air. The fruit will be larger and of better color,
and is more easily got at.
Besides, a larger number of trees can be set on an acre. a larger Cruit hangs like onions on a string. The object in having this form is to allow no branch to
grow, but to restrict it to its formal shape They can be used to cover unsightly walls, if number 12 wire be used, about 15 inches apart. Farm
walls are a valuable asset to this purpose. This walls are a valuable asset to this purpose. This
form lends itself to arches or horders. If on
walls, the slope should he walls, the slope should be about 45 degrees, and Prune to make the buds break close to the graft prune back to two buds, and a avoid any waste
wood. If more than one apple forms at a spur
it will be necessary to thin it will be necessary to thin. Iruning is an art accuired hy training, prac tice and olservation. Fach variely should he
treated on its merits, the ohjects of pruning he ing to give the tree more light and air, to re
move superfuous wool. and to otain better
samples of fruit. The knife should not he sponf samples of fruit. The knife should not be spare
Recarding cultural methods, the ground should
be well prepared by trenching. (ireat care should be well prepared by trenching. (Great care should
be applied to the roots when planting, but as op-dressing afterwards. Lime and salt makes a good spraying mixtu or moss-covered trees. A satisfactory spray, so, may be made and paraffin, aud using at th ash), soft sineglass for a gallon of water. Cank. can be treated by cutting out clean and painting

York Co., [Note. The above article, from an English gardener, is not without interest to our horticu ural readers, although the methods scribed would not be considered practical oy o
chards of the leading fruit districts in Canada. Editor.]

PROSPECTS IN BRITISH COLUMBIA.
What are the prospects for success in grow-
fruit in British Columbia by three young English clerks, with a combined capital of about $\$ 1,000$ ?
The presumption is that these three young men have not been used to manual labor. It is prejudice against manual labor. If so, their hances of success are nil. an they are still spend at least one year as an apprenticeship, working for fruit-growers in British Columbia, and asing their opportunities for observing the qual-
ity of the land, the situation and the possibilities of irrigation, if it is in the dry belt, there is no reason why they should not succeed. There are opportunities in several parts of British Columbia or young men who are willing to work The best time, of course, is to be in British Columbia to begin work in the early spring months, so that the full year's routine would be
fully mastered ; but there is work at all seasons on the British Columbia fruit ranch, with the exeption of a short time in winter Such men are especially cautioned not to in-
vest their money until they have been some time the country The real-estate agents are almost as thick in British Columbia as fruit trees in an rchard, and it requires some little experience in the country to balance the opportunities so as to
invest wisely.
A. McNEILL.

## THE FARM BULLETIN

## To Our Club-raisers

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advocate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate" to act s club-raisers this year, and send us large lists of NEW SUBSCRIBERS.

If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying $\$ 1.50$ ), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW NAME, accompanied by $\$ 1.50$, we will advance the date of your address label six months. Cash commissions or premiums, as preferred, for larger lists of new names.

In clubs of FOUR RENEWALS OR OVER, we will accept $\$ 1.25$ each.
Premiums not included in club offers
Start raising your club immediately. Get 'The Farmer's Advocate and Home Magazine' into every household in your locality.

NOW FOR THE WINTER FAIR.
The Ontario Winter Fair at Guelph, to be held should appeal to farmers' families from to 11 th, of seeing a great show of a facorable opportunity dressed carcass, alsow of the greatest display of tive and dressed poultry to be seen at any show of the
sort in America. The illustrated lectures by experienced farmers, breeders and teachers in the lecture hall, in the same building as the stock
chow, and all for the one adinission fee of 25 farmers such as can educational advantage to o little cost. For information regarding cheap railway rates and programme of judging and lec-
tures.
"r's Advocute" for *ovember of " 26 The Farm- and other
programme of addresses at winter fair
 1908: Hon. J. S. Duff, Minister of Apriculturne will The meetings will be hel Tuesday, Dec. 8th, 8 p. m.-Foultry-Vddress
(" Fattening Chickens, and Demonstration it Trussing,"' by Miss Mary Yates, Macdonald In-
stitute,, Guelph. Address " When and How to Hatch," by L. H. Baldwin, Foronto. Address
"Breeding and Rearing Chickens "(Illustrated by Stereopticon Views), by W. IR. (Iraham, Munager
Poultry Department, O. A. C., Guelph. Poultry Depay
Wednesday Address: "The Pasteurizing of Whey," by Frank
Herns, Chief Dairy lnstructor for Western On Herns, Lordon. Address : "The Feeding Value
tario, London.
of Pesteurized Whey." by w. C. Shearer, Bright, ont., Address: "Cleanliness in the Milk Su
ly," by W. F. Stephen, Huntingdon, Que. Ad ply,"' by W. F. Stephen, Huntingdon, Que. "Ad-
dress : How to obtain Large Milk Yields," by
Geo. Rice, Tillsonburg, Ont. Weo. Rice, Tillsonburg, Ont.
Wednesday, Dec. 9th, 2 p. m.-Horses.-Ad dress : "Cause and Prevention of Common Ail
ments in Horses," by J. Standish, V. S., Walker ton ; Wm. Smith, Columbus. Attention will be given, among others, to the following : Indige tion, Colic, Lymphangitis, Heaves, Azaturia,
Joint-ill. Address: " Treatment of Common Ailments in Horses," by J. Hugo Reed, V. S
m. of Veterinary Science, O. A. C., Guelph.
Thursday, December $10 \mathrm{th}, 9.30 \mathrm{a} . \mathrm{m}$.-Cattle.Adress : "C Cause, Prevention and Treatment of S., Georgetown. Discussion-Robert Miller, Stouffille; W. F. Stephen, Huntingdon, Que. Attention will be given, among ous Abortion, and lowing: Mi
Indigestion.

## Annual Parliament of the Dominion Grange.

At the thirty-fourth annual meeting of the
atinion Grange, held in Toronto on November Dominion Grange, wiel in in poronto or special in-
26 th and
27 th, weighty terest to agriculturists were carefully considered by Ontario's leading farmors, and resolutions
showing the feeling of this important organizashowing the feeling of this important orpulation.
tion indicate the desires of the rural poinu feature There was a large attendance. A pleasing feature was the high percentage of yhe chair was occupied
ladies also were present. Tethbridge, of Alliance,
 and W. F. W. Fisher, of Burlington, wcity to the In urging the members to give publhity to the
principles or the organization, Worthy Master $J$ principlese of the organizafion,
G. L.ethridge said
L. The power and influence of the Grange is "The power and influence of the Grango
being respected, its deliberations were never more closely watched and criticised than that we should
day. These facts should teach us that we should be moderate in our demanas, jostice, and jus watch carefully; that we ask
tice only, and if we are nited, no earthly powe tice ony. and in we are the justice we ask. As
can comeneen as and the
loval citizens we submit to laws which enrich the can come iens we summit to laws which enrich the
loyal citize whic
few at the expense of the many; to laws whis. incresing few at the expense on the many asses, increasing
exempt from taxation certain clat bet while we submit the burden of other classess econceive it to be our
we do not approve, and ut orste and our privilege duty to our fellow-agriculturists al means to hav as citizens to use all constitutional means
such unjust laws removed from the statutes of our ...ntry."
Tho
Dominion Senate was discussed, and the abolition of at least half the prosent nof the re-
Senators advocated, with the election of tien Senators advocated, people The only noticeable
mainder by the pers the mainder by te peopering reeent years was th.
change in that body dury from $\$ 1,000$ to $\$ 2,500$. advance of yearly salary rural mail delivery.

Opinion as
as follows . the attention of the Postmaster-General to to great boon free rural mail deitrery answer that the farmer, only to be met with country could not
with our sparse population the con tor
hut to our surprise, like a clap with our sparse population our surprise, like a clap
stand the exponone, but to
of thunder out of a a clear sky cane taine the ano
 Iemieux, Postmaster-General, that a sstem
rural mail delivery would be at once introduced,
 at the junction of every concesson the privilepe
main road the people would to niven main road the people wo for the receipt and col
of having boxes located for lection of their mail ns desirid. a great henfit to

to cover all the main roads or crossroads, with
the privilege of having boxes at the junction of the privilege of having boxes at the junction ole
every concession line, thus serving the whole rural post offices could be closed, and the extra expense the beginning of a system which will eventually evolve into the free delivery whole rural population of Canada. Increased railway taxation and a reduction in Michigan and Ontario in this regard comparing to advantage. Dealing with the automobile ques ion, the speaker advocated a very heavy licens or tax on all cars used for pleasure purposes, the greater part of our public highways. He also suggested registration stations on leading high rays, where all drivers shat

Probably. A STRONG Rer of the Dominio Probably never in the history of the Dominio Grange or of the Farmers' Association, which now amalgamated so forceful presentation as that urged by E. C. Drury, of Crown Hill, in giving the report of the Legislative Commitee. Strang vanced was equally as weak. Only once or twice did the members feel that anything was left undone. It seemed that the opinion was the groun had been fully and thoroughy J. G. Lethbridge W. F. W. Fisher, of Burlington, and J. W. Hyatt of West Iake. Mr. Mrury sald that hounty o tion wanted no special but they did want the bonus, no advan on the farmers lessened. He deplored the action of the Mnnufacturers' Association, in urging their views on

## AGRICULiCURE THE

Before taking up the clauses of the report, Mr
Before taking up welieve that the national wellbeing demands a steady increase in the nosperity of our agricultural class, as the and prosperity of our agricultural class, of prosperity. We would, therefore, beg to direct the attention, not only of
statesmen and politicians, and of every patriotic
citizen, to the fact that our agricultural population, the only sure indication of the prosperity o the calling is, in every Province east of the Prairio actually decreasing, while even in the is much slower than that of the: towns. In our own pros
ince of Ontario, during the last ten years, there ince of Ontario, during the last ten years, there has been an average annual decrease have shown
population of 6,520 ; while the towns he cities of population of 6, 2 ase of 8,869 , and the cities of
an annual increal in is the custom to refer this decrease
17,457 . It is
machinery, whereby the same number of men can do more work than formerly. Anyone who knows
the actual state of agriculture, knows that this saving in men is more than offset by the informs of agriculture-dairying, stock-raising ond fruit-growing. The decrease in rural, and the inrense in urban and civic population, in reality epresents the fruits of a system of ligregarded the rights of the arming community, and has laid heavy burdons n the agricuiturist in continues it' is not hard 'to see, in the ultimate result, disaster, not only to the farmers of this country, but to the nation at large. To resist all unjust demiands, and to do now fall so heavily on the farming class, is our duty, not only to ourselves, but to our country. In this we would ask the help, not only of aitiarmers, but of whatever their occupation or political inCREASED RRITISH PREFERENCE The first clause dealt with trade conditions, nd asked : First, that the British preference be materially strengthened, by still further lowering the duties on goods entering Canada from Britain. if the wrinciple of protection, as directed against England, were at once and entirely done away with. Second, that definite steps be taken to eliminate the principle of protection ${ }^{\text {rom }}$ our
tariff generally. We would not urge $a$ sudden change, but would recommend a reduction by a certain definite annual percentage. That any movement on better trade relations with Canada should be met in a frank and friendly spirit, the relations which should exist between kindred peoples occupying territories that
a 4,000 -mile frontier."

This clause was carried as read.
BOUNTIES AND RONUSES.
and The doing away with bounties or bonuses wand " In our opinion, the payment of bounties and bonuses to specinal industries, or to think it right, or in the interests of the nation as a whole, that national funds should be used in this way. We have faith enough in our country to belle is likely, within a reasonable time, to be profitable, will not long want the necessary capital. The payment of bounties in the case of any industry can creasing the profits of already profitable indus, tries, or of maintaining industries which are not,
and cannot be, profitable, and which take the

The bonusing of railways in a country as well elieve that this practice has a strong tendency sation of the companies interested, but the poli tical life of the nation. In this regard we would particularly urge that the bounties on iron and
steel be discontinued entirely at the end of the term they are granted for, and that no further additions should be made in future to the list o ounty-fed industries. the using of the peopl.'s money in the bonusing
of an .All-Red Line of fast passengers steam-
ships. We do not believe this project will be of ships. We do not believe this project will be of
any material advantage to the nation at large., any material advantage the the nation at arge.
Brief disusion able conditions
party politics he clause being corried unanimously
favored interests investigated. By way of ensuring equal treatment for all in
arests on their merits the report argued: "We believe it would be to the advantage of the people at large if all industries or schemes
receiving anyyhing from the nation in the form receiving anything from the nation in then, were compelled to submit to a searching examination
oy a competent officer or board, appointed by the Covernmunt from whom the favor is received organization is 2, actual capital invested; ${ }^{8,}$,
methods of management ; 4 , suitability to the methods of management; 4, suitability to the
country. The results of this investigation should coentry. not only to the Parliament, but to the gation of the existence of combines and trusts,
and wherever these are shown to exist, thero and wherever these are shown to exist there
should be an immediate withdrawal of all bounties, bonuses, and tarif advantage.
It was pointed out that since the intention was only to provide against giving support to young
Interests, or to avoid increasing the support to going organizations or concerns, th
coiving ", "in line 3 should be changed to "asking. Atter considerable discussion the clause was carried with that amendment. it was made ciear
that the intention was on whe surants as those to live-stock associations or beekeepers associations
ing concerns.
aCuTE INTEREST IN AUUTOMOBILE LegisLegislation regarding the control of the auto-
mobile nuisance proved to be the stickler. recommendation of the committee was: To the counties the power to control the use or to the counties the power to contro the use or
trantic; (2) Prevent them using the public roads
tor three days each week ind Sunday; and (8) tor three days each week and Sunday; and (8)
Make the users of autos responsible for all damage caused by their presesce on the highways."

It is, if posssible, better proved now than
Inment year ago, that where horse and auto trafflc use
the same roads, the horse traffic must suffer. Nor the same roads, the horse traffic must suffer. Nor is use among the rural classes. A vehicle which is of no use for five months of the year throughoui
the greater part of our country, and which is the
still
greater
very Farmers, particularly in a country where they are taxed for almost every other ind wastry, are no
likely to have an auto for summer and a horse likely to have an auto for summer and a horse
for winter. Under these circumstances we do not Yor winter. Jnder these the fremers, who built, and
regard it and that the
largely maintain, the roads, should be inconvenienced and endangered by a vehicle which is not.a merelly a plaything for the idie rich."
casell to
Several members thought it. would be well to strike out section 2. W. F. W. Fisher suggested money should go to the municipality to repair
damaged roads. W. L. Smith said if counties were given control, free reads certain days of the
week would be guaranteed. Mr. Fisher pointed week would be guaranteed. Mr. Fisher pointed
out that the automobile was here to stay, and the object should be to control their ruinning. It
could be done by high license, according to welght and running capacity, so that the Government cipalities to cover damage done to roads. Tha high license would not safeguard the lives of farm-
ers and their families driving on the highways was the opinion of James Fallis. The question should make and maintain the roads ?
Lengthy discussion and numerous and varied
suggestions resulted in the clause being referred suggestions resulted in the clause beng referred
back to the commitee. Later it was carried unanimously, with clause two cancelled and th following substituted: "(2) Provide high rro-
vincial license to to Yor injury to roads, and that this be distributed
to the municipalities in proportion to population."
rail.way taxation.
Regarding the taxes railway companies ar legarang the the report read :
obligged to pay, them of rail-
We believe that the present system ont
wrong. That a rallway toone
erty $n$ o more taxe tion that doos not take aetent $=-$ sideration in the thlilthet
so tax rallway propery to tax rallway property to -1 b
that any addition to ther ient $a$ loss in the operation of the rem
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additions should be made in future to the list of bounty-fed industries. We would also condemn the using of the people's money in the bonusing of an "All-Red Line" of fast passengers steam
thips. We do not believe this project will be of any materiial ndontage to the nation at large."
Brief discussion dealing chiefly with the deplor Brief discussion dealing chiefly with the deplor able conditions arising from the development of party politics in such legislation was
the clause being carried unanimously

FAVORED interests investigated.
By way of ensuring equal treatment for all in Corests on their merits the report argued:
We believe it would be to the advantace
the people at large if all industries or schemes reeciving anything from the nation in the form
of tariff protection, bounties, or bonuses, were compelled to submit to a searching examination overnmint from whom the favor is received This investigation should include: 1. Methods o organization; 2, actual capital invested; ${ }^{3}$ methods of management; 4, suitabinity to the country. The results one
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gation of the existence of combines and trusts, nd wherever these are shown to exist, there thes, bonuses, and tariff advantage.
It was pointed out that since the intention was only to provide against giving support to young
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After considerable discussion the clause was car ried with that amendment. It was made clear red with that amendment. it was made clear
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acute interest in automobile legisLegislation regarding the control of the auto
mobile nuisance proved to be the stickler. recommendation of the committee was
That legisiation be aske which will: (1) Give
to the countien the power to control the use or
trathe (2) Prevent them using the public roads tor three days each weok and Sunday;b and ( 8 ) Make the users of autos responsible for all da, age caused by their presence on the high rays.
Commenting on conditions, Mr. Drury reported It is, if possible, better proved now than a yoar ago, that where horse and auto traffic use
the same roads, the torse traffic must sunfer. Nor
is it more apparent that autos are extending their the same roads, the horse traffic must suffer. Nor
Sat more aparent that autos are extending their
use among the rural classes. A vehicle which is ofe among the rural classes. A vehicle which is the greater part of our country, and which is
otill
very Farmers, operticularly, in a country where they are caxed for almost every other industry, are not likely to have an auto for summer and a horse
for winter. Under these circumstances we do not regard it ans just that the farmers, who built, and largely maintain, the roads, should be inconveinienced and endangered by a vehicle which is
not a necessity in any case, and which is in most

Several members thought it would be well to strike out section ${ }^{2}$. W. F. W. Fisher suggested
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Lengthy discussion and numerous and varied suggestions resulted in the claus oneing referred beck to the committee.
unanimously, with clause two cancelled and the
 vincial IIICense to give rensonable compensation
for injury to roads, and that this be distributed Tor injury to roads, and that tortion to popula-
to the municipalities in proportion tion."
railway taxation
Regarding the taxes railway companies are

Wrong. That a railway should pay on its propof farm lands adjoining, shows a system of taxasideration in the slightest degree. The proposal to tax railway property is met by the objection a loss in the operation of the roads, or to avoid this loss, a raising of froight rates. It is urged that many railways find it diffrcult to pay a dividend now, without added expenditure being forced upon them. We believe this objection to be en-
tirely unfounded. That railways are a paying enterprise is shown by the fact that C.P.R.R. stock is now selling at 117 . That some railways are
not paying is no logical reason against their not paying is no logical reason against their
equitable taxation. We are not aware that farms that are mismanaged" and do not pay have their taxes remitted on that
"" Two instances may be mentioned. The Town-
ship of Oro, in the County of Simcoe, has 13 miles ship of Oro, in the County of simcoe, has 13 miles
of railway. This includes 127 acress of land, and of railway. This includes
buildings assessed at $\$ 1.750$. The total assessment is $\$ 7,367$, on the same as on farm property for counts. That a railway, running through a good country, and worth in actual cost probably $\$ 20,000$ per mile, a
wotal of $\$ 390.000$ with three stations, including yards, should pay no more in taxation than an average 200-acre farm, is absurd."
The well-known champion of railway legislation in regard to taxation, H. J. Pettypiece, ex-
M.P.P. gave as his opinion that the aim should be an equalization of taxes according to property owned the case on this continent railways have entered into the development of the country, but that was no reason why the railway companies should escape taxes. In doaling with the States
of the American Union, Mr. Fettypiece stated that each State had a system of its own. In Connecticut a tax of $1 \%$ on capital invested returned \$1,220 per mile. In New York a tax on real the State $\$ 671$ per mile. In Indiana and Illinois an assessment, according to value fixed by a special board, returned $\$ 51$ per mile to the former
and $\$ 453$ to the latter. In Michigan, a State about the same size as Ontario, and much similar as regards railways, the plan up to 1905 was on gross earnings. In that year it was changed to assessment by a board. The tax meant 8554 per 1907 averaged $\$ 60$ per niile, and reached $\$ 1$, 370,000 . If the taxes were equal to those in the Cnited Sta
$\$ 8,000,000$.
Lines operating in Ontario, and also in ad jacent States, were compared. The G.T.R., the C.P.R. and the Michigan Central in the six States In 1907 the taxes on these lines amounted to $\$ 2,444,000$, or $\$ 471$ per mile. The same railways $\$ 452,000$ or $\$ 85$, per mile , and paid in taxes $\$ 452,000$, or $\$ 85$ per mile. The earnings of the
systems went to the general treasury, and were svstems went to the general treasury and wero
used to delray general expenses in the United
States and Canada. He has heard of $\$ 85,000$ being tra
Michigan.
Comparing taxation on farm property with that on railways, Mr. Pettypiece said that thy former on actual value of farm property in 1900
showed an assessment of $\$ 5.33$ per $\$ 1.000$. railways the same year it was $\$ 1.55$ per $\$ 1,000$
Taxation according to adjacent farm lands wa not right. Pullman cars practically were frey Crom tax. Besides,
companies escaped.
The time had come when railways should be Compelled to to pay their when railways should by
It was ad
mitted that without rond railway mitted that without good railway systems new
parts would not be opened up rapidly, but Canparts would not be opened up rapidy, but cain
ada's real progress was due to pioneer work of the agriculturist. TTaxation would not-retard the
building of railway lines. Farmers were referred to as the best business
men in the world, individually
Collectively howerer, it was hard to controi them other interests succeeded in keeping them divided against
each other. They must learn to stand torgether each other. They must learn to stand together
for the general intercest. His farewell plea was " Stand together work toget her; vote together, Fettypiece, a resolution demanding that railways
be taxed according to real vnlue of property and
not merely as so moch land was carried unanibe taxed according tuch land was carried unani-
not merely as so much
mously DIRECT legislation.
In leading the way for leasilation by pention
and popular vote. the committen reportont and popular vote, the commiitee reported as fol
lows
 is proposed to in
its noxt session.
 Parliamment, men desiring the whlfar-
and willing to do the will of the peo
such a scheme is not necessary. 1 lt is to be fee
that such a plan, by lessening the responisib of Parliament, would lower its standards, and should enioy in the wisdom and experience of should enjoy in the wisdom and experience or
skilled legisiator.
On the other hand, if our liaments are to be merely the fighting ground political 'factions, and if political expediency, not national wer members of Parliament, we atrongly of the opinion that some such plan greatly needed. This plan would have one great advantage, namely, that questions of pub
welfare would be discussed by the people gener velfare would be discussed by the people
ly, free from the heat of election times, biassof political attachment. In this way a much
fairer verdict of the people might be obtained than under the present system. The scheme would alalong public lines.
"On the whole, while your committee are not prepared at this time to give unqualified assent
to the plan, we think the scheme well worth conto the plan, we think teo scheme well worth con-
sidering, and would recommend to to Grange sidering, and wourd
for further discussion.

INitIATIVE AND REFERENDUM. The purpose of the suggestion was
linod by W. C. Cood, of Brantord. In Ontario the nominion Grange had, he said, to a certain extent, been successful in urging legislation. stll
there were many laws not on the statutes that appear to be in the best interests of ontario citizens. The Dominion Crange and the Farmers'
Association, before amalgamation, had asked for cancellation of bounties and the control of automobile traffic. The fact that laws had not been
passed in accordanco with the request showed that our legislators do not fairly represent the people. In addition, the legislators were under the influence of lobbyists, and were not altogether free
act.
Unconsciously, too the members came under act. Anconsciousy,
the influences of capitalists and society classes, or those not in sympathy with Government that would suit the mass.
To obviate these difficulties, he proposed a sys-
tem of direct legislation through the initiative and the referendum. By the former the people by petition had the right to propose legislation. Five or ten per cent. of the electorate should suf-
fice to put this into action. The party in power fice to put this into action (he the puestion bower submitted to the people at a special or a regular election. Forced ventilation of questions would be the result. By the referendum system popular
opinion against
legislation could prevent bills pinion against Iegisiation conto force. A certain percentage petition would prevent a law, alhough passed by Pariiament, from coming into was really an optional referendum.
Results of initiative and referendum systems as
In vogue in other countries and in some of the States of the American Union showed how popu-
lar vote overthrew the action of the legislators. The result was entirely satisfactory, and no danger resulted from fake legislation, because of a comparatively high percentage demanded on the petitions. The conefits and cooperate with other cluve or
the bene associations in bringing direct legislation into ada. One of the unique advantages was the disparty held different opinions.
W. As far as Dominion matters were concerned, able. For a Province there might be little in the Initiative and Referendum was not considered
by E. C. Drury to be the ideal form of Government. A good legislature should know more,
about erislation than ""the man on the street." Under the present conditions, Canadian Governments were not representative. Politics in the
family and other petty politics made $1 t$ impossible to obtain popular representation. ${ }^{\text {Polititcal ex- }}$ pediency proved to play too important a part.
Direct legislation would deal a great blow to partyism. and had miny advantagers. On ques-
tions such as the tarift, nine-tenths of the farmers would vote agnainst the protective system. Never-
theless, lack of machinery to bring initiative and
referemdum into effect made it necessary to go referendum into effect made it necessary to go (
slow It was true that Parliaments were more Slow, It was true that Parliaments were more
easily worked than the nation. Wealth worked
wondiors wealth that had been made honestly G Gradual improvement in the quality of Legislatures, was mentioned by Mr. Good as a very
important ad vantage. Aiter the direct-legislation important advantage Ater the direct-legisiation
scheme uns in torce for a very few years, it was Found unnernssary to use initiative or referendum.
Flectors wher


 it the present system of rail-
municipal purposes is entirely
necember 3, 1908
THE FARMER'S ADVOCATE
creased number of Granges would make it passible
to carry the move to a conclusion. In the meanlo carry the move to a conclusion. In the mean-
time, axitation and eduction was the main need. men, was the suggestion of Mr . Fettypiece. By appointing three good men from the Grange, whose duty it would be trant constituences, much could be
sentatives of rural coll done to do away with this evil in our Legisla-
dones cures.
A motion by J. J. Goodfellow asked that the question of initiative and reterencuring the year ned report at the next annual meeting.
was carried unanimously.
(3) Smith in a motion that a committee be appointed that Mr. McEwing be requested to suhmit the same to the Legislature, with provision for submission of same for popular vote, together with any substi-
tute which the Legislature may wish to submit. This also was carried, and H. J. Pettypiece, W. maxiety to co-operate with the Social and resolution urging that body to to take steped to have
the question of direct levislation belore local the question of direct legislation betore local
councils, so that the members ould discuss it be
Core the convention, on December sth. rupther legislation ask

Ulauses dealing with civil-service employees: grart in the Government depart ments, candidates
deposits, lavish expeniture of public, moneys. sales of C.P.R. stock and forestry were dealt wis as and
carried unanimously, without discussion, as fol lows: we regard as essential to the political purity of our nation the reform of our civil service. Ad mission to the civil service shoud becter, and by and competitive examination. Political patronage
as applied in this direction should be abolished. as appe welieve that wherever graft and jobbery is disclosed in Government arairs, who beve profted
should Governmental employoes in any way be dilsmissed from office, but they should
be punished as defaulting bank clerks ond others be punished as defaulting oank sould these be pun-
aree punished. Not only
sot being employees of the Government, have assisted or shared in do frauding the country, should be similary pum-
ished.
Where corruption and fraud of this
Eind ished. Where corruption and extentment of Goverr-
have been extenive in any departer
we believe the resignation of the Minister in charge is called for.
We believe the law requiring candidates for 2 seat in Pariliemen it the candidate does not poll 2.
which is forfeited if tive certain percentage of votes, is unjust and this re No possible advantage can accrue from this re quirement, and it undoubtedly ten party system by
and fasten upon the country the and fasten any non-party candidates who may be penalizing we regard partisanship as one of the
offered.
orcat curses of this country, and unhesitatingly great curses of this requirement as tending to fasten it
condemn this apon the conce.
for its existence.
. ments we are alarmed at the continued increase of expenditure. We believe much of this expenditare
is uncalled for, and would urge upon our Govera ments the neressity of of going slow, and of laving
mp something toward the reduction of our sil up something toward the tece increasing expendi-
too large national debt. The ture for military purposes in our The best defence
gard as useless and dangerous. of our nation lies, not in an expensive ano "tur
fective headquarters' staf, nor in an army of "fun and feat hers, spous farm population, which would
steany, properous
th case of need fumish the best hes. - ish the best basis of a nationa "The custom of the C.P.R. of allowing present
stockhoders to buy issues of new stock at par is
hroubt to brought to our notice. The stock thus purchase.
is worth at the time of purchase from 150 up. and the selling of it at par is practically equal
the aidding of so much water to the stock of the company. This would, perhaps, be the company's add is under an agreement with the compan. control
tered into in 1888 , not to supervise and tom
treight rates over the company's lines till such time as it shall be earning 10 per cent. on its



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edt cational Matters
The committee on education, throuzh a, J. tario's educational ssstert in general. Imereesed efficience of teachers had not come as rapiduy
had been boped for. Continuation-clas
mork was commended. Instruction in agriculture in certain county High Schools by specialists also, tive com to have bencecianted to take steps that tive committee was requasted lo tread to the formation of trastee associations in every county of the province a few direadv existed, through indiridual elort, Reprecational Association's annual convention. Every county should be represented there
Many delegates expressed themelves stronglv drills and features adopted in schools and colt leges The following resolution was passed atter lensthy discuscion. "t Ie would asain stronglv protest asainst all methods either
ralculated to develop military spirit ar school children. and we would impres, upoo our educationists the importance of directing instimcts of lovalty and patriotism to mards the server The state in behali of peace retitive exuminations where practical, also was advised. The instite
tion of co-perative eflort was considered more tion of
adrisable.

RESOLUTIONS COMMTTEE
Hany resolutions intended to lessem the bur
dens of agriculturists pliced before the meetime by the Resolutions Committee An liser dele Drainage Act, so that cases comigg herore the drainase def dispote, rather than at the conter town : also, that the servious of a court-rier ach such cases A resolution to that effoct tres passed. A suggestion to theve mbleosler age to any citiven who offered the costh $\quad$ mas hil over for a
subjects to be discoussed at the anil meeting be placed before the local Grases in tine for
consideration before the delegetes sere sent. cosso to have copies of the programed printed for
distribution when delegates arrived, distribution
oe the bools.

DOES NOT FAVOR SUFFRAGETTES Dealing with the subject, -Women and th Home." Miss H. Robinson, of Midellemarch,
ferred to the infuences for good of wron. local Granges. There always was mach for wo men to do by worring quiethy ine Loch Gramges after the med to send lady delegates to the anmilal convention, so that they could become fimiliar with

OFFICERS AND COMMTTTEES
The election of officers for 1900 resulted as Overseer. Miss H . Robinsom, of Midalloparch; Secretary-1Measurar, Jarren of Actom: Steward. Lecturar. Gilchrist, of Gamebridse: Assistant Stesardi, J. J. Morrison, of Arthur: CJaphain Jas Fullows of Newbridec, Gateleeper, Jas A. Gleen of Glenworth: Ceres, iss Lisween, of St. Thour march : Pomons, M. M. MThelp, of miotity ; Lady Assistant Steward, Mrs. T. D. Drecory, J. G. LethExecutive Committee- E. C. Sutherland (Surom),
bridye, Jas. MIEwing, and w. L. Smith. The committees for 1909 will be mofle 1 as Jas McEwing, of Drayton : and w. F., W. Fisher. of Burlingtom. Education - W. C. Good of Good fellow. of Craiguale. Good of the Webler of livelle Robirson, of Middlemarch , of Acton.

$$
\begin{aligned}
& \text { march, and J. L. Warren, of han } \\
& \text { Balance on }
\end{aligned}
$$

The books of the Secretary and Treesuret. when hatd. Twrenty-two new Gragges had beed formed during the year. Lack of funds hampered
oreanization. but there was a bright outlook for ongane growth.

## PRIZE CAMADIAM FRUIT

According to cable despatches from the Old Countro. Canadian fruit mas mede roditable mie Forland. Noral Horticultural Show in Lean in:ario each stood high. Ontario woo the modal for general fruit

I's to the ead of bas had been cauced br the euthreak of fout and mouth disesse in the Cuited Statec ampering that Michigan. and. accurding to cuminioting Te
 to New York and Peanslrrawing hadi beem phame uecerive stonk for local consumption fint nim to asreement between officera of the livestoctio Association and Federal and slate quargantine of ficiek this mill apply obly to cantr, gat sime for slanghter. Becidec, the steck must enmie to pens In last week's issue of "The rucmures saed cate," an inadvertant error in in armmumionsious
 into Canadi from all the States in the smperian Umion had beem prohibited. This mule applive oubr to stock that had beem of hand gussum Mibits the trameit of treal goine through CBund in bood.
Objections laving been raisel Dy reitumy cum panies that the quarantime regahsums freant the shipenent of bef from the unt in bount products in bood on Camerion foiltuays Oov Saturdar. November Yuit tila puninion. Camedian rater routes to Amprivan cancon States port will be allomed to tountial and to loave tine country for emport to buppecmit Chondiam port carrivie tatily ham the tive as part of por earga prohilitilit Sust in then


 P. R. has refoselt.

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 He helieves: he constant donge of the tronesinion at its man (The this and the folloming Print Nis onim Ih constant tor con loul
 cest: cot in the inlucuiminto shmpin in in
 ghort the Bons system
In postentintion vecane dionk ruw mill in
 force to work refocm as cmbediedin in luth in In telling the pablic of the tharges of infutuon

##    Chicaso it mas only in whis wny unatit the  hreeter <br> Amosg the rewivappointoin allon sat the Our eral Assemby of the titecuatiog Bring hails is 


 Somool of Forestry is requinet in pund foucur in tretartion at the ment shasim.
 c. Not pai

Women's Institute Convention We print
the annual the annual convention of on ontario
Women's Institutes, to be held in Masse Women's Institutes, to be held in Massey December 9th and 10th, 1908. Superin
tendent Geo. A. Putnam feels
satisfied that the programme is particularly goo this year, and that those who attend the convention will be much interested. Spe cial attention is drawn to the fact tha
Miss Van Rensselaer, of Cornell Univer Miss Van Rensselaer, of Cornell Univer
sity, is to give addresses at the conven tion. Miss Van Rensselaer gave an ad
dress at the recent meeting of the Ameri dress at the recent meeting of the Amer
can Association of Institutes and th can Association of Institutes and the
Granges of New York State, and delighted all by her splendid effort. The
PROGRAMME.

Wednesday, December 9th Morning Session.-Hon. James S. Duff, 10.00-National Anthem. Invocation: Rev. R. J. M. Glassford, Guelph. Ad-
dress of Welcome: Pres. G. C. Creelman, a. A. C., Guelph. 10.3e-Reply to
Address of Welcome: Mrs. W. J. HunAddress of Welcome : Mrs. W. J. Hun-
ter, Brampton. $\quad 10.40-$ Review of Year work: Mr. Geo. A. Putnam, Superintendent. $\left.\begin{array}{c}\text { 11.00-Financing the Insti } \\ \text { tutes : }\end{array}\right]$ Grants; special means of raising tutes: Grants; special means of raising
funds; expenditure of funds, etc.
Afternoodn Session.-Miss M. Yates, Afternoon Sess.
Guelph. presiding.
2.00-Three-minute reports from afteen districts, followed by discussion and ques-
tion drawer. $\quad 3.00$-Vocal Solo: Gardner, Kemble, Ont. 3.05-Address
"Problems of the People," Mr. C. C "Problems of the People," Mr. C. C
James, Deputy minister of Agriculture J. James, Doddress: "The Value of Farm Home Lifo," Miss Martha Van Rensselaer Cornell Universit
8.00-Public Myeting in City Hall
(Separate progrdmme).

Thursday. December 10th. Mornin
presiding
10.00-Address and Demonstration "How to Conduct an Institute Meeting,"
Miss S. Campbell. Brampton. 10.30 . Miss S. Campbell. Brampton. 10.30 .
Address :
"Household
Conveniences Miss Martha Van liensselaer, Cornell Uni versity, Ithaca, N. Y. 11.15 to 12.00 Question Drawer: Appointment of Rep resentatives in : Session.-Mrs. Thos. Shaw. Hespeler, presiding,
2.00-Address" "How the Macdona Institute May Help the Women's Insti tutes." Miss M. U. Watson, Macdona
Guelph.
$2.20-$ Address "House Plants," demonstration in pot ting: Mr. Wm. Hunt, O. A. C., (Guelph,
Ont. Music. ${ }^{\text {3.00-"The Mik Prob- }}$ Ont.,
lem Music. ${ }^{\text {Care }}$ of Milk, Prof. Dean; Baceriological Contamination, Prof. S. chy; Mirik and Children, Mr. Jas. Acton ood Value, Pror. Harcourt. the fact that on Tuesday evening, De cember 8th, at 8 o'clock, a special Poul-
try Session will be held in connection try Session will be held in connection
with the regular Winter Fair programme, iss M. Yates Pry. W. R. Graham, the Agricultural College, Guelph, and F Cliford, of the Macdonald School, Sart in the programme. This should prove of much interest and value to the dele gates. The admission to the Fair is 10
cents for ladies. Prominent speakers have been secure
for the mublic meeting on Wednesday for the and Institute delegates will find much of interest dresses to be given.
notice to delegates Passenger Rates.-From points in tario west of and from hingston, S
bot Lake and Renfrew, but not wes bot Lake and Renirew, single fare for the round tr good going December 5th to 11th, good
to return up to and including December 14th. Certificates not required
this territory.
From the territory east beyond King From the territory east
ston and Sharbot Lake. and west beyon
Sore North Bay to Port Arthur, single fare
on Standard Convention Certificate plan

THE FARMER'S ADVOCATE

## and fee tificate

 Accommodation. - Arrangements have deen made for accommodation for ladydelegates attending, the convention, in arrival at Guelph, delegates will please report at City Hall.
The delegates will The delegates will have an opportunity The Agricultural
Ma-donald Institute.
$\qquad$ should be sent to the Superintendent Badges and programmes will be maile
to all whose names and addresses are

## 3rd.

## BOOK REVIEW

 A new book on bacteria. The latest addition to the Rural Sei ance Series, published by the Macmillan Company, bears the title, "Bacteria in Relation to Country Life. Jersey Experiment Station.This is not intended as a text-book for students or specialists, but a treatise that within the compass of something less than 500 pages outlines in non-technical language for farmers, housekeepers, dairy non and members of boands of health, along several lines of importence to these classes of persons, and summarizes the results that have been reached up to the middle of the current year. The im portant part played by bacteria in the making and spoiling of dairy products is
in a more or less intelligible way, know to almost every reader, but of their re lation to the processes, of canning and preserving food, making pickles, sauerkraut, bread, beer, wine, vinegar, etc. fow plople have any knowledge.
Dr. Lipman deals, as might bo expect Dr. Lipman deals, as might be expect
ed. with the problems of contamination and purification of drinking water, an the treatment of sewage, but the topic
which he discusses at greatest length is the relation of bacteria to the fertility
the soil. The most effective means
tin treating large volumes of sewage is show to be in $\tan$ is specially constructed to
favor the multiplication and activity avor the multiplication and activity
certain kinds of bacteria. The results it new tanks. or beds. are improved by inoculating them with sewage from ol
tanks in active operation. In the pres tanks in active operation. In the pres
ent state of knowledge, it would appea ent state of howledge, it would appeg
that in a field where barnyard manure or humus is nourishing a crop, there are a
least three armies of different species least three armies of different species
bacteria at work. One of these is conbacteria at work. one of these is con
verting the straw, humus, etc., into am monia. another the ammonia into nitrite and a third the nitrite into nitrate. The
nitrate is readily soluble, and if plants nitrate is readily soluble, and if plants
are not growing in the soil to take up are not growing is cormed, this valuable plant food is liable to be drained away
A wheat feld unprotected by a cover crop, may thus lose more nitrogen afte the whea
the soil.
After reviewing the history of soil and seed inoculation with pure cultures of
bacteria. and the disappointment that his attended the use of ". Nitragin.". "Alinit," and the "Cotton-cultures" of the U.
Ilepartment of Agriculture, Dr. I.ipm hepartment of Agricutarm-nt that whit
concludes with the statemnt
the fulure may yet see gratifying resul The future may yet see \&ratifying resulic
from the use of cultures of nitrobacter at present
lating th lating the bacteria in the soil by so
improvement. Improved conditions moisture. arration and humus, and in
creased supily of suitable mineral foo creased suply of suitable mineral foo
will increase both the number and a
livity of the bacteria and therelv, pro
$\qquad$
elticient
out pres
to yield
$\qquad$
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## QUESTIONS AND ANSWERS


 2nd. Questions should be clearly state
and Hainly writen. on one side of th
paper only paper only, and must he ane ampanied by
the frull name and address of the writer.
3rd.-In Veterinary questions the symp 3rd. - In Veterinary quest ions the symp
tonss evperierly must be full n nd clearly
stated, otherwise satisfactory replies canstated civen.
not be beply by mail is required
th. When at
to uryent veterinary or or legal enquiries



## Miscellaneous.

MAMMOTH CLOVER I am writing to you to get some in
formation about Mammoth clover. Have written to you before and have been
greatly benefited by your prompt answers 1. Will the second year's growth of the first year's crop
2. It so, how much does it produce,
generally?
A SUBSCRIBER. Ans.-There is no physiological reaso why the second crop (third year of
growth) of Mammoth or any other clover growth) of Mammoth or any other clo the
should not produce sed as well as the
first crop (second year's growth). provid first crop (second year's growth), provid.
ing the growth were equally luxuriant. Thg the growth were equally luxurian
This, however, is scarcoly likely to be the
cose. Mammoth clover is a biennial with a degree of perennial tendency. In
fact. it has been called a short perennial ract, it has been called a short perennia,
In other words, it is ilike common red. only that the perennial habit is a little
more strongly de eloped. When not al nowed to produce seed, Mammoth clover
will often persist fairly well into the second year of cropping, but with this, as with red clover, seed production tends
to shorten the life of the plant. On the other hand, the stand may be in a mean
ure renewed by seed lost in harvesting If our correspondent's field looks prom-
sing next spring, he might do well to ising next spring, he might do well to
leave it, otherwise he had better plow it 2. An ordinary yield of Mammoth clover seed would be from three to five
bushels par acre, and in some cases leas, hushels per acre, and in some cases lees,
though instances are on record where as nuch as 11
been reaped.

TRADE TOPICS
In this issue will be found the adver-
isement of the celebrated Dain all-steet
isement of the celebrated Dain all-stee pull-power hay press. Look it up if
interested and write Messrs. Dain Mfg. iterested and write Messrs.
co.. Preston, for particulars.

Lime Sulphur Solution, a most effectiv and economical spray material for winter
and summer use for the destruction of and summer use for the destruction of
San Jose scale, oyster-shell bark-louse, and fungi, in orchards, is advertised for
sale in these columns, in a prepared sale in these columns, in a preanted,
state. quantity and quality guaranted,
by the Niagara Sprayer Co., Middleport, by the Niagara Sprayer Co., Niddleport,
V. Y. This should prove a great con venience to orchardists and farmers genvenience
erally.
CFMENT BLOCK MACHINE. popular as building material for dwelling
houses as well as for basement walls and houses as well as for basement walls and
silos. The combination cement buildingsilos. $\begin{aligned} & \text { The combination cement building- } \\ & \text { block } \\ & \text { machine. manufactured }\end{aligned}$ by Mr.
$\qquad$
$\qquad$
$\qquad$
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$\qquad$

[^0]AYRSHIRES FOR ALbER
AYRSHIRES FOR ALBER
Mr. A. H. Trimble, Red Veer
 shire herds, 25 head of choice
ranging in ages from six months ture cows. His largest purchas trom the "Isaleigh Grange" herd at than-
rille. At their dispersion sale, he" on 12 th, Mr. Trimble purchased eie ven
heifers and one bull. Worthy of young heifers and one bull. Worthy of
si ecial mention among them is the iwo-
year-old heifer, Isaleigh Gem
 -20523 -. This is a most promising
heifer, and is from a choice line of milik-
ers. In the yearlings is Isaleigh Sandi-
lands -27101, by Gilen of Montebell.
a splendid type of an Ayrshire, and has formance test with a record of 8.580 Perof milk and 312 lbs . of butter-fat. The daughter is built along the same lines as her daun, and should be a grand milk and of the younger heifers are sired by the hoted stock bull. Netherhall Robin Hood 25782 -, imported, recognized to be one from Scotland. Theiry bulls ever imported calf, Isaleigh Major -2:118, by Glen of Montebello,
is a likely chap, and with his good breed ing behind him, should be a good stock-
getter
Two cows were also purchased from the trd of James Boden, who has rented
te Isaleigh Grange Farm for a term of years. Mollie of Elm Shade-14020- by
Sotiand's Glory -10774 dem, is of fine type, having good size, as -22298-. from the noted prizewinner, Howie's Fizzaway - 16721 - (Imp.). From the herd of he selected the imported bull, Barcheskie Kingswaif, just a fow months
out of Scotland, bred by Andrew Mitct-
ell, Barcheskie. Here was also slectel ell, Barcheskie. Here was also solected
a heifer of merrit in Burnside Violet tth and

- 26576 -, sired by the champion Asrshire
bull of Canada and the Inited States. bull of Canada and the (inited states),
Barcheskie King's Own -20726- (imp.). Both the bull and heifer are prixeewinpers. he being first in his class at Toronto
Exhibition this fall. and the heifer was frst at Calgary, Winnipeg
Exhibitions last summer. From John Taylor, Kelso, was pur-
chased a choice yearling bull., Dairy King of Kelso -26s37-, also el prizerinuer ingdon Fair this fall.
From one of the oldest-established herds in Quebec, that of the Secretary of the
Canadian Ayrshire Breeders" Association. $\mathbf{W}$. F. Stephen, Huntingdon, he selected six head, including the cow. Peach
$-11129-$ sired by the elebrated Uncl
Sam of Trout River -6974 . Sam of Trout River -6974-, from the
noted Nellie Osborne, the champioa com at the Cólumbian World's Fair in Cli-
cago, 1893.7 his is a fine type of cow. large, of good form, and splendid quality.
carrying a perfectly-balanoed udder, with large, well-placed teats. She has a rec
ord of nearly 9,000 lbs. of mill and 400 ibs. of butter within a period of tel
months. The yearling beifers, Spring
 (imp.). a bull of great dairy qualities
Her dam, Delta Maid -1119- has Her dam, Delta, Maid - 11118 , has
record of over 8,500 lbs. of milk and 370 Whs. of butter. Springbrook Grace, with same sire, and as dam Irene 2ad - $\mathbf{1 1 1 3 2}$ with a record of about 9,000 lbs. of mik
and 430 lbs. of butter. These cows were also sired by Uncle Sam of Trout River.
mported from Scotland. gets his Yankee ne from being the first calf dropped
mander anadian stock in Uncle Sam's ter-
while his dam was being exhibited
from the herd of Messrs. Hyde Calf, which received first prize wherever
Whited this fall, Lorna's Choree of
He is from a
$\qquad$
$\qquad$ males and nineteen
of groid size. well-
on best milling the best milking
of Ayrshires should of Ayrshires should
splendid dairy stock splendid dairy stock
West. Mr. Trimble Ereat future before of that country. and Th and 10th. Good to return t -


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if you live far out of town, and save yourself long
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discount notes-arrange for discount notes-arrange for nary business with this Bank by Mail-with safety and dis patch.
One Dollar opens a Savings Account on which Interest is paid or added 4 times a year this Bank is convenient to you. Your account is invited. 46

## MARKETS.

TORONTO.
At West Toronto, $\left.\begin{array}{c}\text { rat... on Monday } \\ \text { receipts } \\ \text { numberent }\end{array}\right)$
November

 common, $\$ 2.80$ to $\$ 3.70$; canners, $\$ 1.50$
to $\$ 2.25$, milkers and springers. $\$ 40$ to
 Sheep.
$\$ 4.25$ to $\$ 4.85$. Hogs, $\$ 6.10$ for selects,
fed and watered at market, and $\$ 5.85$ to (ed and watered at market, and $\$ 5.85$
drovers, f. o. b. cars country. REVIEW OF LAST WEEK'S MARKET Recipts of live stock last week totalled
306 cars; 3,737 cattle, 9,921 hogs, 4,650 306 cars; 3,737 cattle, 9,921 hogs, 4,661
sheepp and lambs, 206 calves, and 61
borses. The run of hogs was the largest of any week this year, if not in the
history of the markets. Owing to late heacig. receipts, and local Owing to late heave receipts, aspplies.
deaters having obtained large supher for all
trade was dell, with low prices for all classes of heef cattle, excepting a fow prime stall-feds, which were very scatco
Fixporters.-There were few export steers
on sale, and what were offered were bought for butcher purposes by one of
the abattoirs at $\$ 5.10$ per cwt., for 9 the abattoirs at 85.10 per cwt., for 9
steers weighing 1,300 mos. each. Bulls steers weighing $\mathbf{1 , 3 0 0}$ hes. each. Bus- $\$ 4.25$ per cwt. Ex-

+ sold at $\$ \$ .50$ to $\$ 4.25$ - porters were not wanted, owing to scar-
city of shipping space. Butchers'.-The bulk of the cattle offered
as butchers' were common to medium quality, and slow of sale. A few of the
best sold readily. The choicest of a very
peow market-lot sold up to $\$ 4.60$; loads powr market-lot sold up to $\$ 4.60$; loads of the best, $\$ 4$ to $\$ 1.37$ t; medium, $\$ 3.60$
to $\$ 3.50 ;$ common, $\$ 2.50$ to $\$ 3.50$; can-
$\qquad$


CHICAGO.
Cattle.-Steers, $\$ 4.60$ to $\$ 8$; cows, $\$ 3$ to $\$ 5.25$; heifers, $\$ 2.50$ to $\$ 4.60$; belles; $\$ 2.75$ to $\$ 4.50$; calves, $\$ 3$ to $\$ 4.85$ Hogs.-Choice heary shipping. $\$ 5.80$ to \$5.90; butchers', \$5.75 to \$5.85; light mixed, $\$ 5.25$ to 85.40 ; packing, \$5:.40 to mixed, $\$ 5.25$ to $\$ 5.40$; packing.
$\$ 5.80 ;$ pigso $\$ 4$ to $\$ 4.75$; bulk of salen. $\$ 5.40$ to $\$ 5.75$.
Sheep and La Sheep and Lambs.- Sheop, $\$ 4$ to $\$ 5.25$;
lambs, $\$ 5.25$ to $\$ 0.75 ;$ yearlings, $\$ 4.25$ lambs, $\$ 5$.
to $\$ 5.75$.

BRITISH CATTLE MARKET. London cables for cattle were 11tc. to $12 \%$ ic. per pound, dressed metght re
frigerator beef was quoted at 110. to 11 lc . per pound.
$\underset{\text { A young woman }}{\text { negress call to }}$ to a perheard ${ }^{\text {an }}$ old
bach
"Excuse me." said the young woman,
"but isn't that a queer name for a bab, Aunty "Dat in't her full name", explained
 pet name I call for short. Dat chile got
a mighty grand name. Her ma proked it
and out in a medicine book.
chile's full name is Ecrema.
"Dear." said the young wife, "I just
can't wait till Christmas to tell you what I've got you for a present."' "Well,"" replitid the young huebend. "That is it ? "I've got you a now rug to put in
front of my dressing-table, and a bronzo front of my dressing-table, and a bronze
statuette for the parior mantel," was the statueter. "Now. what are you going to
answer get me?,"
"Well," said he contemplatively. "how about ge

A Presbyterian delegate who was ac-
customed to being sent to denominational conventions to extend fraternal greetinga
and "es delegeted to the General Conference
of the Methodist Episcopal Church. Rising to speak, he said it was always Rising to speak, he said it was always
an interesting study to him to note the
diferent receptions accorded him at the different recoptions accorded him at the
conventions of the various denomina"Whenever I attend a convention of the $\because$ find I can do anything I like except preach in the pulpit. When I go before
the Rantist Church I am arcorded every
privilege privilege excent that of taking com-
munion. And." he said with a smile,
owhen

 aud finucationt． At Confederation there were 2,087 miles of railway in Canada；to－day
there are 22,452 miles．．Incidental－ ly，there is no better index to the growth and prosperity of a country


While the attention of Europe has been centered upon the Balkan situa－
tion，a complication of affairs of a tion，a complication of aiairs of a
peculiarly portentous nature has been present，a second mutiny is feared The great danger in all such disaf－ fection in the East is that surround into a sympathetic movement．Rail ways are becoming common through－ out the Orient，and whem the of news，and of intercourse between country and country－the most ef fectual preventive of sympathetic novements－has will，no doubt，adopt immediate and drastic measures，both conciliatory and by display of force nitial stages；and yet，though the present crisis may be tided over，it seems inevitable that Asia，so long
dead，is to be the theatre of the most interesting events the imme diate future holds in store．Whether this means the＂yaplow＂races，or a general yielding of the continent to merce，time alone will tell．Much must depend upon how the present possibility orrent Empire of China within the
works out．
ister of the new Department of
Labor which is to be created during Labor which is to be created during time，Mr．King will go to China as
one of the Imperrial Commissioners at
the International Anti－opium Confer the International Anti－opium，Confer ence．the grandson of williame Ivon Mackenzie，the most persistent revo－
lutionist Canada has lnown，the leading spirit of the Rebellion of
$183 \%$ ，should be so moted for his tact in removing friction and pour ing oil on troubied waters that he
is employed as Canada＇s chief agent is employed as Canada＇s chief asent
in so many cases requiring delicate in so many casestrequirings，teutres
handling．© Aus．＂．And yet，maylhap．the
moours． same spirit has acted in both an costor and descendant．Ostensibly drastic measure which prevented still greater upheeval－writh the in
evitable catastrophe which attend all political upheavals．however sulu－ tary a little later．It is impossible to say that William IVon

Not long since，the writer hat ohe privilege of hearing a lecture by Dr Falconer，President of Toronto Uni－ atartlingly new，perhaps，in the ad a was impressed with a realivetion of the profound influence which must fow from the going about through
the country of such a man as this the country of such a man as this A man big of stature and bit of where，far above narrowness or con－ ceit，or self－consciousness，he in
preeses most of all br his loftiness presses most of all by his lortinean sonse．．＂I have no sympathy with
those who boast of extent of terri－ tory，＂he says．＂What counts is
the quality of the people．what they are what thes live for，＂＂and he which have lived；while rich，disso lute and luxurious Mabvilonia，exer cising no influence upon succeed
racos，has long been forgotten．
Dr．Falconer mukes no attempt the dopth of his profound learning，but he does try to inculcate principles of manliness，to uphit chare by what he he succoeds perhaps more．Character emanates，speaking with telling forc when mere words unfelt． and unielt． we cannot see or hear t60 much of such men，the cream of our coun－ try，and our Teachers Associations credit for bringing them as often as they do before the people．

Recent news reports state that ceived by a citizen of one of the vil lages of ontario，threatening him blackmailed．This is the second time such a thing has happened in Canada within a raar，and sure our detective force to get
is up to
to the bottom of the matter．The to the bottou of the matter．The perpetrators of hounded down ever
bery should he her such veamples of a
time，and made somen time，and made such examples of at
will check any propensitioc tomard
similar crimes for lome enourh in similar crin
the future．
ishment，sure，unrelenting，is the
only security for that safety of Can－ anly security ior that safety of can ada s people upon which we have，so
long prided ourselves．Nor is such
firmness of necesit io hard．＂o Those firmmess of necessity＂hard．＂Thiose
rho will neither worlk for their liv who will neither work for their liv ing．nor respect either the laws of


How many of our readers are there who have not，at one time tor ent on while trained animals wen chrough the various＂stunts＂＂to just as though these were any indica－
tion of intellect on the part of tho tion of intellect on the part of the
poor beasts compelled to perform
them．Trained animals have in fact been found to be a drawing－
card at all places where people go simply to be amuused－the veanderilles．
the town halls．The arenas set aport simply to be amused arenas set apart
the town halls．the ane entertainment of the vast crowds which attend the agricoltural and industrial exhibitions
and just as long as they are ap
preciated，they are bound to be pul ＂on the boands＂．is another side．loathesome then is another side，letail，to the pictura
rimbe in every
one which has been recently one whieh has been recently epposel
by a writer in＂Everyboty＇s．＂＂he by a writer in＂Everybody＇s＂＂ho
simply tels of the things the
seen．It is a pet delusion that ant mall．It is a pet defusion that ank trained by love，hy sticks
mi sugar and words of hindness but oi sugar and words of kindness but conmertion at a blow． sticks and irow rods are．the and trainers constantuy ecmploy broken，the first thing to breol is his spirit．It is done with a club．＂ －they are pushed and haulod，and
and choled，and tortured into mand ch．
tricks．＂
Foliowing this assertion comese a horrible description，in concrute of mals．i．A handsome tifer mit mooses were first thrown into its cage，one noose fixed about its meck．
and the other four drawn taut about its legs．Finally，the door
of the cage was opened，and the poor beast urged out into the aremo of torture in which it was to rised for the editication and joy of future multitudes－viz．，it was to forcing it toward the seat，sharp lashed whips，cruel steel forks，and
revolvers loaded with blank oar tridges．were all called into requisi－ tion，every movement of the animal indicating a tendency to turn on its ening and pulling of the rope，whicl hrew it half－choked．with lolling ongue and protruding eyeballs，on
its back．at which stage it its back，at which stage it was
ierociously lashed．goaded，and pounded on the nace．woade the pur prose of instilling into it fear of the irainer．Again and a arain it swooned
but it was dousol with buckets of water．and the leann renewed as y．hy the use of a Mock and Finall whole performanno was and theper whot performante was repee：－
upon the dim consciousness of the
brute that this was the thing it was expected to do．There were future the show，and so mo pains，no tor－ ture，must be spared．
We cry out in our self－righteousness gainst the Spanish our twentieth－century civiliza－ lion，our fineness of sensibility，and kindness of heart，and yet we spend our money to look at periormances public not a duty to perform in revolutionizing the quality of public will be given it；and just as soon as it astss for clean plays，with beauti－ ful scenery；for pageants at once a treat to the eye and a spur to the
intellect and the imagination； for an elimination of trained animal shows，silly and disgusting burlesque， and acrobatic performances fraught the stage will be made the thing it ought to be．A few petitions sent to the committees arranged to pro－ vide entertainment for In comnec－ tion with the trained－animal branch of the subject，there would seem to be an especially good field for the
Societies for the Prevention of Societies for the Prevention
Cruelty to Animals to work in．

## SPELLIMG REFORM．

$$
\begin{aligned}
& \text { Editar "The Farmer's Advocate ": } \\
& \text { In concluding your motice of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { In concluding your notice of Dr. A. } \\
& \text { H. Hackaw's excelleat paper on }
\end{aligned}
$$ Spelling Reforra，you invited discus－ siom of this practical topic．I am reminded of the invitation by the papers are just now bringing us mews of the recent establishment of the stimplification of English spelling． The sociely has opened offices op－ posite the British Museum，in Lon－ Skeat，of Cambridge University，and among its officers are Sir William

Illurray，editor of the great Oxford Dictionary：Sir william Ramsay． the renowned physicist：Dr，Furni－
vall，and william Archer．In Eag－ land，as in America，the most emi－ ment students of historical Baglish end the leading dictionary editors are identifying themselves with the
propaganda in favor of spelling re－ About 1880，the London（Eng．） Philological Society made the firs this reform，but the first organiza－ tion created for the special purpose
of its promotion was the Simplified Spelling Board of America，formed） three years ago，and provided with chiefly through carrying liberality of $\mathbf{M r}$ ． Andrew Carnegie．The English work along the lines planning its fan Roard has been iollowing．The gatter has adhered to the principles not to advocate anv modification of Finclich spelling that is not temper－ frakish quelling of any kind；not to nlax the existing rules and anal－ to make them more cer－
ertend and enforce them．


## The Quiet Hour.

BEFORE THE JUDGMEMT SEAT. -We meet and mingle, we mari We judge by a
or a fancied We give to our fellows a mere glance Then brand them forever black of Meenwhile God's patience is o'er us He probes for motives, He waits for No moment with Him is mean o
small,
And His scales are turned by the
weight of tears." I don't intend to talk to you about
what is usually called " The Judg ment Day," but rather draw your at
tention to the fact that every day is a judgment day. We stand al ways belore three judges, and the
trial is continually going on. These judges are God, the world, and our selves. St. Paul says a judged of
very small thing to be ".
you, or of man's judgment: yea, I judge not mine own self. Cord." But He that judgeth me is the to agree
theory we may be ready to
with the Apostle, but are we always with the Apostle, but are we always
so unconcerned about the praise or blame of men? It is not possible for us to treat 'iat lightly. If all
"Public opinion,"
our world should think we had committed some terrible crime, and mony of a clear conscience and the smile of God would help to make
the burden bearable, but the pain sould be agonizing to any sensitive us hungry for sympathetic apprecia-
tion, and though it is a great help good men, there is a danger lurking
in this pleasant path. It is possible to live for years in the sunlight appreciation: it is possible to en-
joy the favor of God and men, and the approval of one's own conscience
thich honestly declares that we are arnestly striving after holiness yet danger. And why? Simply berau.


## About the House.

## CARE OF THE HAMDS

Many people look forward to the ill
effects of wintry winds upon the hands with real dread: rough, smarting akin and gaping cracks are not pleasant, nor
are the emotions of the average woman
of unmixed ioy as she dons a fine waist of unmixed joy as she dons a fine waist
for some state occasion and sees a pair of coorss, roughened arms and two equal-
ly coarse and roughened hande protrud-
ing below the dainty lace on the sloeves. ly coarse and roughened hands protrud-
ing below the dainty lace on the sleeves.
It is not a sign of mere vanity to take It is not a sign of mere vanity to take
some care of the hands. Attractiveneess
enpento elmost as much upon them as copende elmost as much upon them a
upon the face, even were comfort a sec ondary conelderation. A prolific cause of sore, rough hande ise,
of course, the very common habit of running out into the cold wind without drying them thoroughly. If care is talken atter each disth-wanhing, ette., to theme perfectly before going into a colder
atmosphere, the troublo may bo groatly atmosphere, the troable reaults may be
lessened. Still botter
made sure of if one carea to take the made sure of thene cares rubber sur-
precaution of wearing thin
genn's gloves while scrubbing, dusting. geon's gioves wher
tending fires, etc.
When the hands become chafed they may be made soft and smooth again by washing them with goon soap and soft water. proferably warm, just before goling to
bed, and rubbing into them, before they bed, and rubbing into littlo giveorine and are perfectly dry, a littlo givce
rosewater mixed hair and halr
giycerine proves too strong. Increaee the the
proportion of rosewater, or dispense with proportion of restogether, and use in place of it a little cold cream, which may be bought all ready for ube. In either case, wearing a pair of very loose old kand
gloves in bed will both whiten the hands and save the bedclothes from being
soiled. Soliedins on the hands may be almost inveriably removed by rubbing them with
lemon fuice and salt, or pumice stone ; and hang-aails may be prevented by keep-
ing the cuticle pressed back around the ing the cutcle pressed back "hall-moon" is exposed, then rubbing in a little cold
cream every night. For prossing back the cuticle an orange stick, which may
be bought for a trifie, should be used, as it is made the right shape for the pur pose, and does not scratch the nail or
irritate the skin. Indeed, an orange stick and small nail file are indispen-
sable to everyone who wishes to possess

## RECIPES

Christmas Cake.-The Macdonald Insti-
ture Recipe: $\mathbf{1}$ ib. raisins, rants. $\frac{1 \mathrm{lb} \text {. mixed peel. } \ddagger \text { 1b. Ags. chop- }}{}$
 monds, spices to taste.
Plum Pudding.-Take
ib. each of sugar and suet,

1 cupful milk, I teaspoonful each ground
mace, cloves, and nutmeg, 6 eggs, + cup
brandy. Rub butter and sugar together, and mix with them the milk and beaten solks of the eggs. Add the flour and whipped whites, dredge the raisins (which
should have been seeded should have been seeded and chopped), put this in with the spices and brandy. Mix well, pack into greased moulds, plunge at once into a pot of boiling
water and boil 5 hours, being careful that the water does not boil over the top of the roould and get into the pud-
ding. If pudding bags are used, be sure ding. If pudding bags are used, be sure
to leave plenty of room for expansion. to leave plenty of room for expansion once, use several small bags rather than one large one.
Spiced Cranl
Spiced Cranberries.-Boil about 3 lbs. brown sugar with 2 cups good cider vin-
egar, adding 2 tablespoons each of cinnamon and allspice. and one of ground to a syrup, then add 5 lbs . cranberriee and simmer trom 1it to 2 hours. This Creamed Parsnips.-Peol and cut in two medium-sized paranips, slicod length-
wiso. Cook two sliced potatoes with these. When tender add hot water
enough to the water in which they were enough to the water in which they were
boiled to make about a cupful. Stir in
Ste a tablespoontul of butter mixed with a
tablepoonful of tour and yolk of an egs.
salt and pepper to tante ent and sorve. Rean Soup.-Boll the beans untal tem-
der, strain. mash or press through liove and retura to the tiquor with Anall minced onion and a little eolery. enough liquor, soason, and arve very hot
with bits of toast or fried breed. Thit good for supper on cold winter ovtor Winter Salad.- Mix loft-over boiled cabbege and pickled beots chopped together.
Pile on letuce leaves, and -ervit with salad dressing. The lettuce may bo dow. Stowed Figa.-Wash, soak over night in cooked. Serve with whipped until This makee a very wholesome and nour-
$\qquad$ Maraipe.-Serape and boh ur-
Mash whilo hot enough to make a pint. Meat into thie 2 tablespoonfulis butter, 2 of cream, a well-

 crumbe last. Sprinicle a littlo eatt and pepper or paprika over the
add a abileapoonful each of molted but. cer, milk and hot
tel Alour, two-thirde - Take one cabloopoonfal iour, two-thirde ceacupful water, one
teacupfuil sugar, yolke of 2 egge and one
lemon. Orato the rind of the lemon and lemon. Grate the rind of the lemon and
squeeze out the juleo. 1 III Alour and
surar and grated rind of lemon, then add yolke of esge, well - beaten, and water. ly uatil it becomes thick. Have the ploshells partially bolked, pour in the alling. and malsh baking. Last of all cover with a meringue made of
the egse and browa nioely. Corned Beet or Lamb Hash with Poached Eggs.-Milinee toigether the cold as much more potatosos than meat. Hoat a frying pan, put a fow spoonfuls of becon fat in it, and a few epoonfuls of let becom. very hot. Turn wall, a hoter, and
dish. place poaching aish, place posched egse over the top. Cheese Toast.-Melt a level tablespoons
butter; cook in it and a halp of đlour, one-fourth teespoon sate. and a dash of pepper. When frothy
stir in three-fourths cup of rich mill Stir until boiling. then stir in half or three-fourths cup of grated choese. Stir until the cheose is melted, then pour
over toamt. Aslice of crisp bacon may be added to ench slice of toast in may
Banana liked, Banana Pudding.-Mix one-third eup
cornstarch with a iltte cold mill, and put the rest of the quart of mille to cornstarch into it. and continue stirring until the mixture thickens and to thor
oughly cooked. Beat the yolle of ergs. add one-fourth cup sugar and half

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into the hot mixture. Let cook until
the egs is set, then stir in sliced bana the egs is set. then stir in sliced bana-
nas. Serve with a caramel sauce, made
as follows: Put one cup sugar in as follows: Put one cup sugar into a
pan and let brown. Add a cup of
weter, let the sugar. melt in this, and cook, to at thick sygar syrup. Prune Pudding.-Stone some cooked
prunes chop fing. prunes, chop fine, and mix well with a
little of the liquid. Now mix together two-thirds cup of stale bread crumbs, two-thirds cup four sifted with 2 leve
teaspoons baking powder, two-thirds cup teaspoons baking powder, two-thirds cup
finely-chopped suet, and two-thirds cup suegar. Beat 2 egss light: add two-
sugher
thirds cup of the prepared prunes, half a toaspoon salt, and two-thirds cup of
mill. Stir this mixture into the dry ingredients, and steam 2 hours in a close eovered, butefred mould. Leave plent
of room to swell. Serve with sauce.

## The Ingle Nook.

cof railway station is one of the most a spot wheres. oven if yourt. are- emong tho for the ponce a student of human nature, Ensconcedt in a corner, a hall-hour's wait idly watch the people drift by: a curious
melley. of which in all probability. you
will tyover seo a singto member esein, end With yover see a singto member askin, an an almost unaccountable intorest. And selecting those whe might be your friends meet your glance he might go on his we
cheored a little, he knows not why.

 will proter that it bo mbere money rienss mome
 bit sorth promise and tho "reaser" is not visibibe Honst tad
 ,oilidrem may be tor thero wero younger
 Souro it cars. ho hass time to chink
 nem. "tolosorope." but ho himsolt is Amav, lookitigy throush an open door up

 loo lyiter with his noes on his paes: the pine woods are waving.

 the most acoopled hashon, hand io unify out over the hateot approved toundation You aro moraly, ustro that tase rate ho droor thate peelts tho icme of tyto, and heor veil iunt brings. out the beauty ot her
compexion, while not conoaling in tho





 Norç, with orototet courtesy, but with
 ion unies yount too. aursor hair. Not tot tor for Ioting woman near hy.





 | mann: |
| :---: |
| anymere |

THE FARMER'S ADVOCATE
members of the Beaver circie to be as time, wish the wave something

Hine. "~ Wish to have something
about this deteate, "Resolved, tha
no more than do the name justice.." Would have called our attention to the
fact that the beaver is one of the tivciest fact that the heaver is one of the winciest
creatures alive. and so has hee whe a
symbol of industry-.. As busy as creatures alte, and. so has busy as
symbol industry-. As busy as
beaver." is a very common saying beaver." is a very common saying
And so in this respert. also.
they will be "out of the way," sit an
old man and woman. He holds a basold man and woman. He holds a bas-
ket on his knee, full of apples, perapaps,
for the grandchildren ; she has her hand-
bag and umbrella, and a parcel or two. They have come down a long journey, these two, but the companion-
ship has never flagged yet, and never will how these old folk do not need your interest either, but it you smile if the them they will take it kindly: and if you help the old lady aboard with her umbrella
and bundles, they will talk of it on the and bundles, they will talk of it on the
way, and again to the sons and daugh-
ters. and the grandchildren.
Just a word more. Have you ever yet Just a word more. Have you ever yet
sat an hour in a railway station without resolving to never say a slang word again? She is always there the woman, young or old, who uses slang-and there
it strikes you with all its bold, ugly,
"commonness." You may have used it commonness." You may have used it
courself; you may have overlooked it in yourself; you may have overlooked it in
a triend; but here, on the lips of strangWh. you know it for what it is.
Without doubt there are slang words
thich are so apt that they will incorWithout doubt there are siang words
porate are so apt themselves into they will incorporate themselves into literature.
has been done, and is being done, in
dis. spite of purists, as such words as "jingo".
and "graft" testify. But we refer to anand "graft" teatify. But we reler to an A ladylike looking girl said, "I am go
ing to sticl my brother for my fare up.
The one tell-tale word marked her as The one tell-tale word marked her as no
lady. A middle-ged woman ejaculated,
TDarn "DDarn the thing'". How ill-chosen the
expression soemed. on the lips of an age
that should conduct itself with dignity. that should conduct itsolf with dignity. not be safer not to use it at all?


Difference of Opinion
taking a little trip to the W. I. Conven- see they are very good, but, also, that
tion at Guelph? If you go, be sure to they might be improved a little in bright. tion at Guelph? If you go, be sure to ness and interest, as well as in the numlearn many a lesson, as well as gather
much to amuse in these little journeysmuch to amuse in these little journeys

Dear Girls and Boys,-As you see, we
have a new name for our Circle. There
have a new name for our Circle. There
were a good many votes for "Young Canadian Circle," but more for "Beaver
Circle." and so that matter is bettled. the prize going to Noah Steinmann Wellesley, Ont.
I think we should all be very well satisfied with the new name. As wus-
sell Warner, one of our Circleites sell Warner, one of our Circleites, said
in casting his vote: "MThe beaver was in casting his vote: "The beaver was
our first builder, and is an emblem of our first builder, and is an emblem of
our country which is not brought to the
notice of the reading public as much notice of the reading public as much as it should be, and by calling our Circle
'The Beaver Circle," I think we would
 Canada will be proud to own as men
and women by-and-bye. Sometimes, too.
we hope they will be very busy and women by-and-bye. Sometimes, tusy
we hope they will be very busy
in trying to give ". The Beaver Circle in trying to
the success Che success it may have if all try hard
enought. So, hurrah for "The Beaver
circle;. and congratut. enough. So, hurrah for ". The Beaver
Circle," and congratulations to Noah
Steinmann. Just here I may say that for the next
competition I want you to write a comcompetition I want you to write a com-
position on "The Reaver,"" illustrating
it by a drawing of a beaver. For each it by a drawing of a beaver. For each
of these-essay and drawing-we will give of these-essay and drawing-we will give
a prize. Now, do you think any one of a prize. Now, do you think any one of
you will manage to capture both prizes?
of course, you must take at least 75 marks to win one at all. Aest And, oh, yes, I nearly forgot-the best drawing of
the beaver, if good enough, will be re produced in the paper.
Be sure to send your letters so they may reach this office on or before the
20 th of lecember, and this time and henceforth, address envelopes to ""The
Beaver Circle." ." The Farmer's AdvoBeaver Circle,". ." The Farmer's Advo-
cate," London, Ont.
Now I must stop and make way for the Circleites.
Yours in a jolly big handshake, -
PUCK

OUR DEBATE I must say that I was a little disappointed is to whether summer or winter
bate. as to
sport is the better fun. Very few got as many as 70 marks, and not a single
one as many as 75 marks, the requisite one as many as 75 marks, the requisite
number for taking a prize. I am pub-
lishing the two best letters: You will

## The Beaver Circle.

 Russell tried to keep their letters too Russell tried to keep their letters tooshort. but 1 would have given twice as short. but would have given twice as
much room, provided the letters were
interesting. Isabel Smith sent a very neat, prettily-
inting Written letter, but her sentences were
rather short and jerky, with too many revetitions. A very good plan is to
"mix" your sentences, having some long,
some short. A long succession of very some short. A long succession of very
short sentences is sure to produce a jerky, rather disagreeable effect, while a succession of long ones makes heavy,
tiresome reading. Now, laddies and lassies, I hope you
do not mind my pointing out lakes. You know. our (ircle must beot above all things, helpful, and 1 cannot
make it so withon make it so without telling you your mis-
takes as well as yon eakes as well as your kood pou your mis-
sides. I am sure. if you try to.
Re best, youm sure, if you try your very
so bright. so to interesting write letters o bright. so ine abresting. thrite they ters.
surprise us, and, perthays, yourselves two
ter sport is better than summer
For my part. I prefer the summer and for many reasons. In the suowner view them by. In the winter the spmist are mostly in the evening in the lighted
rinks, or skating on the river or ponds
by moonlight by moonlight, whe
should be in bed.

For my part, I enjoy a baseball game on a warm day in summer. I enjoy fishing parties, picnic and garden part-ea
It is also pleasant in the hay and har est felds.
Would like some members of Children's osee my letter in print. De Cewsville, Ont.
In Favor of Winter Sports Dear Puck,-Reading in your last "Adat once wolke up. I think winter sport is much better than summer sport. In Coaticooks, it is considered by the boys and girls, that an gove stay at home, lio down in a shady place, and still be roasted. Winter is a beautiful season, the snow is very pretty and the nighte chief sports of winter, and I like it best. chiers out on a moonlight night and come back neer the morning. Now. I hope
that it is reeolved that winter sport that it is resolved that winter aport if
much better than summer aport. Woll. much better than summer sport. Well.
I must close, as 1 will bo taking up too
much apice of this precious corner. I much space of this precious corner.
Coaticook, P. Q.
Decision re Debate-If the decision on the debate is to go by numbers, then
"summer" has won the day, as three letters were written in favor of summer sports for every one in lavor of winter sports. However, I think those in favor
of winter sports have made out a very good case, also.

## the letter box.

 Dear Puck,-I have been wanting towrite to you for a long time, but Inever could get it done. My uncle has been
taking "'The Farmer's Advocate" for as taking "The Farmer's Advocate" for as
long as I can remember. Inink it in long as I can remember. the very best paper I evead. This is my second letter to the Children's Department, and I am very much interested
in it, because there are such nice storiee and letters in it. I think you must be a big, jolly man, able to recoive us all into your heart, and that you are able
to write many nice stories for us in the
Department ing. I think. I think 1 will try making some of those
Christmas presents you mentioned in the Christmas presents you mentioned in the
last "Advocate." I am in the third reader at school. There are just two pupils in my class, and we are both the The pupils of our school are going to
have a concert of dialogues, recitations, and many other amusements. We are
going to have a lot of the farmers and their wives to come; it will be at I may drop in often to see you, and I may drop in often to seo you, and
maybe I will tell you about our concert. I think I will get some of the recita-
tions for it out of . The Farmer's Ad-
There were some Indians near our school arrow ago, and I bought a bow and
from them. I got a little pinil bashet, too; it only cost one cent.
$\qquad$ Write again, 1.uella and well us about he concert. I hope you will have suoDear Puck,--It is bedtime, but I have
to stay up to "rite to yoa. I am go-
Ine to say a f.N words on the subject.

Puck is pretiy mart, I tell you, who-
ever he. she or tit Is. In one paper he speaks of coys being gentlemen and such. howing girls how to

DECEMBER 3, 1908
I lost the paper that had
of tho ..New Real and Natid
N
my scrip.
I would like some boys
my own age to correspond
Cassburn, Ont.
notes on New Zealand cans Citerm.
tine
Ser
Several other letters cannot go in this
issue for lack of space, but will numen
 -which tells how to play a good christ-
mas game, is held over for the christmas $0^{\substack{\text { mas } \\ \text { num }}}$
for the younger childrem Dear Pussy,
friend,
'Cause I saved you a whippin' to-day,
When cook missed her custard Wen one said
It was puss that had stealed it away.
You know you are neughty sometimes
You know you are naughty sometimes,
pusy dear,
 An' cook took a stick, and sho 'clared
she would beat The thief out that mizzable cat !
But $I$-didn't feel comfor'ble down in my So L sart, you the whippin', you see, Shed detter tell cook to whip me.
-Cause the custard was stealed by a bad Who fittle girl drefels
$\mathrm{An}^{\mathrm{A}}$ it wouldn't be fair to whip pussy, in
Whan torse, bed little girl was to blame
-Was it my little tirlier"? my dear mamma
Was haid little givie?" my dear mamma
I folt dreffely scarrod, but I nodded my
An thend mamma laughed. "Go find nurse,
tor I I guesa
Theres some curd to wash off a little
well, then, course they knew
It was I, an' not you,
Who stealed all the custard

An'that'sg how I saved you a spankin
to-day.
A Prize Lette
Dear Puck, -I thought I would write a
lotter on the ganes that wo play at ioter on the ganes that we play at
school. Now that the snow has come We play "Fox and Gose." The other
day the giris and boys made a fort
The girls got inside the fort and the bors snowballed the grise; I got hit in
the eyo with a snowball, but I did not care. eye with a snowball, but 1 did not

In the summer we play "Emiline, Redine, Hide-and-go-seek." About the | the frat winter 1 went to school we |
| :--- |
| made a slide on the bank $\begin{array}{l}\text { Once when } I\end{array}$ | made a slide on the bank. Once when I

was coming up the edge of the slide some one caught hold of my dress and I fell, and my teth went nearily through my
gum. My teacher sent me over to a
 Farmer's Advocate ", for four or five

years. Next time I write I will write | years. Next time I write I will write |
| :---: |
| on an accident I had. I |
| Io not want | lose for this time. Birr, Ont. You write a very nice leter for a ilt-

Ule girl, Neva, and so wo aro going to
iend you a prize, a book, which we hope you will receive safely.
Dear Friends,- I am always very eager
oread the lotters in the Children's Do vartment. They are, mostly, so nice and interesting.
I will write you a short letter on what
wow said the children under ten, or ten ould write. We are playing "Pussy "ants a Corner," which is, of course, an
"ld game, but still I like it. There is
 ty eldest sister is mars and two sisters



6129: The naval, or sailor waist, is always a favorite one for young girls,
and is admirable for school and college
wear wear. 1t is just the right thing in
hich to take exercise, and it is gether satisfactory and becoming. This
one is made after the latest style, and can be finished with just the neck open ing or with a longer one at the front Ind laced together, as may be preferred. flannel and is banded with braid, while over the left front is a strip of red flannel and red flannel also makes the che
rons, but such details can be arranged rons, but such details can be arranged t
suit individual taste, although the girl like to copy tho sailor boys as closely a
possible. Flannel, light weight serge possible. Flannel, light weight serge
cashmere, and all materials of the sort, cashmere, and all materials of the sort,
are appropriate, and the waist can be are appropriate, and the waist can be
used with the skirt to match, or separately, as liked.
The waist is made with front and back The one-piece sleeves are tucked at their
edges and finished with straight cuffs and are sewed to the armholes belore the under-arm seams are closed. The facting
over the blouse can be used or omitted. over the blouse can be used or omitted,
as liked. The sailor collar finishes the neck, and the separate shield is buttoned
into place beneath it. The quantity of material required for
the medium size (16 years), is 4 yards $24,3 \sharp$ yards 32 or $2 \downarrow$ yards 44 inches
wide, with $5 \ddagger$ yards of braid.


6142: Much of the popularity extended as the house coats made on such a plan
as this one is due to the ease with which they can be made nnd to the comfort that
they provide. In the illustration, eiderdown flannel is the material, and the trimming is ribbon banding, but exe vari-
ous lighter weight fannels are exceedingly beautiful this year, and equally appropriate, while cashmere and henrietta cloth
and fabrics of similar weight are preferred by many women, and the design suits
them all equally well. Again, if somethem all equally well. Again, if some-
thing still less expensive is wanted, the pretty flannelettes and cotton crepe may well be suggested as being especially well adapted to the purpose. If the closing
of buttons with loops is not liked, the fronts can be finished with hems, and the
closing be made with buttons and buttonholes, while the lower edige and the collar and
that may to liked.
The coat is made with fronts, backs The coat is made with fronts, backs
and under-arm gores, and is finished at and under-arm gores, and is inished at
the neck edge with a roll-over collar. The sleeves are in two portions each.
The quantity of material required for the medium size is $3 \frac{3}{2}$ yards 24 or $27,{ }^{2}$
yards 36 or 14 yards 44 inches wide. yards 36 or 18 yards 44 inches wide
with 41 yards rithon.


6137: Every mother of a creeping chid witte appreciate this useful, protec-
tive litte garment. It can be drawn on
over the frock, or it can be worn without Ner the frock, or it can be worn without
one, it allows the child perfect freedom
and activity, while it can be made from and activity, while it can be made from
any simple desirable material. In the
illustration checied gingham is. finished illustration checied gingham is finished
with collar and sleeve-bands of white, with collar and sleeve-bands of white,
hut pink and blue chambray percale and
the more inexpensive printed wash fabrics also are used for the purpose. The apron is made with front and back
portions, and both the sleeves and the leg portions are gathered into straight
bands, while the yoke can be finished sither with a turn-over or standigg colThe quantity of material required for
he medium size is $2 \ddagger$ yards 24 or 27 , yards 36 inches wide.
The above patterns will be sent to any cents per pattern. Be careful to give Correct
Wanted. $\begin{gathered}\text { Number and } \\ \text { When } \\ \text { the }\end{gathered}$ Measure, you need only mark 32, 34, 36, or whatever it may be. When Waist
Measure, 22, 24, 26, or whatever it mat be. When Misses' or Child's pattern, age. Allow from one to two weeks in bers appear, as for waist and skirt, enclose ten cents for each number. If only
one number appears, ten cents will be sufficient.

```
Address: "Fashion Department,","
Farmer's Advocate," London, Ont
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## Current Events.

Many people have been killed by recent tornado in Arkansas.

Austria is sald to be doing her best
to provoke the Servians into war. One hundred people perished by the Sardinian, near Malta, last week.

Two Italians in Normandy have invented a device making it impos
sible to tap "wireless " messages.
The Italians are showing intense resentment against Austria because
of the recent anti-Italian riots in Vienna.
The Hindus in Vancouver are proto Honduras, the two Hindu delegates who visited that country with
the special Dominion Commissioner the special Dominion Commissioner It is feared that the revolt in China, which has broken out along general movement throughout the Empire against the throne and all
foreigners.

Arrangements have been made for the inauguration of a new steamship Rotterdam and Montreal, to open in
the spring. A general passenger and treight business will be transacted.
Turkey is still persistently boycot ting Austrian trade, and still refuses
to recongize Austria's claim for the annexation of Bosnia and Herzegovina. Both nations are rapidly
mobilizing troops in preparation for mobinzing troops in preparation for a possible war. in Thirty Servans
have been slain in a fight with the
Austrians.

## POWER LOT

A Story of "Down East."
by sarah mclean grbbne.

CHAPTER XXVI.
As Far as Heaven." A week had passed, and Bate had ings, if the truth were known, were
not only for him, but also for fear of tidings of some criminal misdoing of his, or lest he should come home knew not what evil companions. Mrs. Byio stepped out strong as ever in
" I'm coming over to bunk on the lounge alongside your bed, Mary. When they was mixin' the mortar to 'Fear' to put in, by Jo! Fear's a mighty good thing, but they was out of it : so, while the devil was grne the job o' making me without any. It a n't a safe way to be constituted,
I suppose, but it's mighty comfortabout the kitchen and set her constant friend, the oxwhip, staunchly in a corner. broad kindliness and courage on Mrs. Byjo's face. It was plain to see the been on Mary's own face, that had -more irresistibly beautiful than ever " " Rob ain't got but one arm at present," continued Mrs. Byjo ; " so
me and my old oxwhip will stand guard, too." a big pair of spectacles out of her pocket and sat down by
the kitchen lamp with one of Mary's the kitchen lamp with one or Moury two young people can have the sitting-room table for your reading," she said, " and clear out
0 ' here. When I read I don't want anybody interruptin' me with talk, or iogglin' my elhows; I want the whole world to myself when I read,
same as when 1 'm enjoyin' my. first same as when 1 'm enjoyin' my ' frst
mess $\mathrm{o}^{\prime}$ greens in the spring, only more so."'
Mary's had been for days. She felt freer to her heart, and she spoke to him in the adioining room. frank with me if there is anvthing concealed about if there is anything concealed about Bate sail over there, too? I have been thinking lately he was not at "Miss that dingaree," said Rob, smiling in his ingenuous way, " it isn't hardly fair, is it, to ask me about
Bate? He sails and he tramps so Bate? He sails and he tramps,
many ways-how should I know ?, " I've had a horrid suspicion haunting me, untll Virginia came in
and dispelled all suspicions with her brave good-cheer, that-that, possibly, it was Bate who was the means of your falling 'into the
quarry ?" She was looking at Rob quarry ? more kenly than he realized.
He laughed, and laughed again,
He thaughed, of the idoa.
Miss Stingaree, I have been able
defend myself, against Bate for to defend myseli against Bate Yor
some time. You know that. You some not very flattering. It was the turn of my foot on a miserable stone sent me silpping was unexpectedly abrupt, and there were jagged rocks below." " Rob, I belleve that is the first lie you ever told me. You and Jim at least. He said the bank caved in. What did happen? I want to Rob's smiling features were expressRon's smiling eatures werment and
ve of the utmost bewildermen confusion. "If Jim said the bank caved, why, then, that was
was so stunned, you know."
as so stunned, you know."
"You weren't stunned before the bank caved in, were you?"" but the
" "No, oh no. not at all ; but the






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 8 sh $\left\lvert\, \begin{aligned} & \text { of } \\ & \text { were } \\ & \text { poign } \\ & \text { must }\end{aligned}\right.$ it is
you w
tell y
you tell
you
thin
hit

## 

things that happenad fust before dia
not make so much impression on me




 heses. IIary caught at his woris
negerly
nith a sudden revulision of
 brother had now thaten that dastard.
bv attempt at crime upon his soul
 II II Hate had only-would only-
put himsel in training as you have
 fritituiness of application. Rob, do
you know of any way one could zet you know of any way one could g ge
hold of Bate really to intuence him? You are intuitive", sho. smilied.
 The never haver foen her that,"
mosic, words were sort as
music, thembling of music, the trembling of her lips in-
expressibly tender. Rob realized of a sudden Uhat Mary did not wholly disapprove of him, thatt she had even entertained a thought of him in tins;
sanctuary of her tenderest emotions;
he drank some of the astounding flattery of her words. His weary, hope
less heart proceoded to make eternit less heart proceeded to make eternity
of this moment. Past and future
were void; his senses swam in must say something to keep her still near him, not to appear as vacuous
before her, however deliciously light
bis bis head was perched upon his neck,
so airy so airy and fine that it was no more
trouble to him than the head sparrow. That was a great dream," said, "that about your mother; and I'm not usually much of a dreamer
either."
"a Can Rob, now tell me?"
Sle followed one hope persistently but there was the trace of girlish emotion still trembling on her lips
and there were her wonderful witch dark eyes asking him for advice and
aid.
"A Perhaps," he said, with absolute honesty, the moment was so transcendant, "if he care enough for someone
to want to win their respect, though he died doing it-I believe Ill tell
you something, Miss Stingaree; since
it is all a hopeless business for me "Mo go on, Rob," said Mary,
much wondering. Since it is all a hopeless business
for me, and I have not even any
right. I suppose, to tell you how right, I suppose, to tell you ho
much I began to think about you at
one time ; in fact, I thought about one every blossed minute of the time.
you fellow could not help it, you know. Well, I wandered up to the old church
one evening-what they call Spook
House "-and lo and behold! you and Jim were standing over in front o
it telling together, and it came back throush the old broken windows to
me where I stood, and before I could me where
turn a way
and you said
and you said " "He is not a man at
all That is what Rou said, con-
cluded Rob, with half-averted face,
on which strength and dignity minon which strength and dignity min tion, not to speak of forgiveness, if
forgiveness were required for those sonl-biting words. Mary's cheek was streaked with so
darle a red, as though a sudden ar-
rov had been sent to her heart. "" After that," Rob went on
did not care about drink, or pleas-
ure or anything ; at first, I did not even care about you. It stopped
every hope of the living in me, It
killed me. It drove me "-Ron's face

 things else in my eyes. and vowed
that I would stund alone, and do that I would stund alone, and do the
right thing, whether anybody knew it or not, or loved mee or not; that
I'd be a man to suit my own ideals on the subject, which are as high as
yours, perhaps; though I haven't got yours, perhaps; though, have knows,
far on the road yet, but, God
I've been trying-some." ve been trying-some was the soft, clear tone of a flute; it seemed an-
gelic, but heartless, to Rob. gel. You think, if Bate could care really, to win someone's respect, or-
hear some very harsh words about hear some very harsh words about
himself-it might redeenn him ?"' "I don't know," said Rob, dreari"I'll do all in mortal power to help
you with your brother, Miss Stingaree."
"How would it be, generally speak-
Hen ing, in a case like you have described
to me," Mary's clear, fute-like, impersonal tone went on, "after hear-
ing so unkind, thoughtless, and-exaggerated a criticism of himself though entirely forgiving, perhaps,
out of a great nature, a person would out of a great nature, a person would
never care as before for one who had
net uttered such unfortunate words?"
" They were not unfortunate, after all, perhaps," exclaimed Rob gener
ously, quite off his guard, "though they knocked a fellow down, when he
got on his feet he had his jaws set for good, you know; he had his mind made up, and he would thave carry out his resolution. Don't you
see? "Yes, 1 see,"-Mary smiled with
composure-" but there could never be the same regard for her who had spoken them."
That honeyed, reed-like voice would have deceived a wiser head than
Rob's that swam so high and airily, as light as a humming birds in spell of her eyes, though he was sad-
ly resolved
heartless."
"Perhaps not in some instances," " Perhaps not in some instances, he replied, utterly tactless, supremely
fatuous. "But for me, in less than a day, I only grew to-to love you
more, though it was hopeless, and more, though it was hopeless, and day of my life." "So many days," sighed the sweet and heartless voice; "but I shall
always have to remember there was always have to remember there was
one day, Rob, when you did not love me."
He thought she was going to laugh. He looke up curioush, and profile contemplating spaces and in
finitudes that had no connection with his poor story. ${ }^{\text {" }}$ Well, I don't know," he murmured, despairingly ; "" probably I did know it."
She did laugh, softly, but to his
astonishment there were tears in the astonishment there were tears in the
eyes that turned to meet his. eyes Than, since you include that day
too, and there is no omission, too, and there is no omission,
think I have something to tell you
too Rob." The bright wave too, Rob." The bright wave of
crimson that swept over her face
chanced to a divine pallor changed to a divine pallor, as she made thus her great amends to him.
:' Though it is all hopeless, as you
say yet T should always want to say, yet I should always, want to it is any comfort to you, to hear
from me, why, then, I want you to know, Rob, that you are more of man in my eyes than any other
have ever met on earth; and that love you, Robert, lad, I love you
with all my heart. Now, go. we with all my heart. Now, go. We
must bear our lives, and God help us ". Mary !-Mary !" gasped Rob, his beatific face confirming her recent
statement that he could "see as far as heaven," "do you mean-that yo
care for me-as a man you could hav married ?"
"A man whom I did not consider
worthy of that honor ". the fute like "A man whom I did not consider
worthy of that honor" - the fute-like
voice renewed its smonth and even

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ven in the most obetinate cases, is BITTERS
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 Ang along at school?"
Teacher-"He"s slow and sure."
Anxious Mother-"Beg pardon?"
Teacher-"He is slow to learn and sure

## RHEUMATISM.

BLLAR'S GOUT \& RHEUMATIC PILLS
sense as the strongest, nob
bravest that it has ever bec
to meet. Now, mad though to meet. Now, mad the
for flattery, Robert,
those words for the las those words for the
must meet the future
must moet the future
sense, this must be
sense, hail and farewell,' for us,
is
ert ". No-never, never!'" said Rob
breathlessly, as though he actually plunge
bliss
must
must be a ware'll be a way! Ill make a There
I was not worthy-but may Way I've won you, since you care for
mee Oh, God! I thought the way
was hard, and! all the to was hard, and all the time 1 was
climbing up a hill that led to glory and the joy of life." He rose and strode once back and forth across
the room, his humming-bird light ness ener into the realms of bliss aite " I'll make a, way, my beautiful, " Virginia is stirring," said the fute insanely. She will come in here presently."
fused me," bending the ecstasy of his tell her. Come with me or I shall think I am dreaming. Come with me, dearest. You owe me this much
Remember the unkind 'exaygerated' speech you made about me." ". "I remember," said Mary, sadly " but we must remember other thing as weu nor I." "e are not free, neithe a What binds you?" said Rob, in face, like a lion about to start out
on the devouring path. Mary smiled " Not a lover," she made haste to say, " but I shall not leave Bate;
no one else would make a home for him, or have two days' patience with him. No one. Even if you were
free," she reminded him, very gently, for his joy was sweet to her. Robs barriers, took infinite largess of
the future. Ho shrugged his broad shoulders as though the world o sordid entanglement, privation, and
doubt, fell from them lightly, " Besides," she said, " reinember it was your faithfulness to what you be lieved to be your duty that won me to you, made me trust you. It
would be a poor reward if vour love
for for me made you give up the fight,
The " Wrastle" by the River. The tremendous gorge of the River
seemed to miss half the tides. It filled, of course, regularly; but to
me, in memory it seems ever to lie me, in memory, it seems ever to lie smiting sun and shrieking wind, ragved with boulders, its few harbored like ghosts without an element. Well, the tide had gone out of my soul, too, and left it stony and dry,
only the ghosts of dead hopes only the ghosts of dead hopes
stranded bleak along its channel.
Captain Belcher shouting cheerfull Captain Belcher, shouting cheerfully along the highway with his oxen,
seemed a denizen of another world. But I had business with him. up. I'm boss. It's my turn. I'm
running the thing now. Here's a paper ready made. Read it, and put
our fist to it, or we'll see which is the best man, you or me. We'll setminutes right here on the ground.
Here's pen and ink. I brought 'em in my pocket a purpose." ". Witnesseth, Stuyyesant Belcher
and James Turbine: I, Stuyvesant Belcher, do hereby say and acknowlbeing at the time incapacitated, I myself did by way of a jest perform a
ceremony purporting and pretending ceremony purporting and pretending
to be a marriace ceremony uniting Cuby Tee-bo and Robert Hilton. But, having no license or authority to per-
ionm any such ceremony, I do hereby
iferlare and confess the same to be form any such ceremony, I do hereby

RMER'S ADVOCATE
between them two sigmatures.
" Yo, I'll look out for that
Belcher, with a great affectlation said maiden simplicity,
" It 111 stand by ye to the last ditch
"Because, ef ye couldin"t, I'm per lectly competent ter looklity out for my eif. So you're rummian" things now are ye, Jim? I thought the sun
was risin' kind on difierent this mornin', and the tides hove in as el somethin' was urerryiim" "emm. Wal" don't be too brash. Jimm. Handle
'em easy. How do ve like ver po em easy. How do ye lake fer po it pay ye for the pains ?
No."
"Never mind. Somebody"s go ter do it, an' I'm giladl on a nest, tell
you work up a herric'm ann' I have ter step in an' put things ter rights or is thar' any more move on now Good-by, Jim. Remember what told ye about puttin" some fress-lai eggs, well beaten, amd a tablespoon I put Rob's release safe im my in ner pocket. Whem you ane clearing the way for other people's bliss, and life till you dom't lardlly lonow life without her, you see blank for while; that is, if youmre mot a bet ter man than ever If was.
the hill, meditating whether it wa better to climb it at onoe and dedirect over to Wapaldeclo and telegraph Doctor Margate to come on and re establish his charge finamociallyy, an take him and Mary awray out o farm, not knowing what might be Bate source, especiallys now if th altered conditions of Rob's life were self came running to me from her cabin door, all excritement. Uhe brown hair on her forehead waving, hat
less. Oh, Jeem, the bears is comin' The bears is comin" " Look you !"' I looked, and saur -accurrent
yearly event in this recion-three yearly event in this region-three
tawny bears of huze dimensions led by their keepers. approachimg along the bluffs, creeping michtily and cumbrously along, resigned and through a forced dance and pass the obsequious hat before us. " ". Sure enough." I said. ". Lord ty them." "along. Jimm ". crim Cuby,
". "ome ane
her bright face glowine. her eyee her hright face glowinge, her eyes

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whem they dance." She caught my hand, and I folall quarters, boys and arirls, from women, began to dot the face of nature; from Joggins and the steep
way and the lanes in all directions the groups began to gather in
nucleus at the River settlement. I saw Rob, one arm upheld in sling, little Rhody Ditmarse drawing
him eagerly by the other hand. He him eagerly by the other hand. He
smiled when he saw us, and came inRhody's cmall and wise countenance was abeam with the general excitement and satisfaction.
" Me an' Rob cut a great pace "Me an' Rol cut a great pace
hyperin' down here to the frolick, soon as ever we see the bears a-
comin'," she said, and added, in explanation of the green apples she
was heartily devouring. © of course was heartily devouring, a good time,
seein' as I was oft on a
1 had to ketch off a few cholery-balls to chew on the way,"
Rob gave his familiar laugh of su
preme enjoyment and Rob enveyment and marvelling ad-
preme enjoy
miration of lhody. I can see that genial face, to this day, no covert
ridicule there, but only as if he
said. "Was there ever such a brilsaid, "Was there ever such a made
liant little girl as this ?" She made
a hoperul diversion, for, though Rob a hoperul diversion, for, though Roh
and Cuby made some talk together
they were not at ease in each other's company.
"My I I admire your cap w'at
you wear, little Rhode.". said Cuby, you wear, hittie risode on the whole
as if making friends
with mis who had once so emphatically
who hat her from the situation lieved her frou the situation of
"Grief "" on the Sunday-school
stage " "it mus' make-a you proud, that cap." "o, said Rhody, gravely ;
"Oh no,"
"they come frec. But, o. course, I
couldn' wear my Sunday hat to the couldn' wear my Sunday hat to the
bear-frolick. A man, goes around givin' these away, an' you wear it
all around so as to make known the
goods what's wrote on it." There goods what's wrote on it." There
was an illustration of a table on
Rhody's cap, surrounded by a family Rhody's cap, surrounded by a family
group, from aged grandparent to in-
fant in highchair, and above the fes fant in highchair, and above the fes-
tive scene shone in clear type the
words, "Home Circle Tea." "Car'line Treet," continued Rhody,
". keeps wearin" her old 'sody " cap.
She says, A dog 't ye know, with She says, A dog 't ye know, with
its fur droopin', is better in a
strange cat with a ribbond 'round its strange cat with a ribbond 'round its
neck. Mebby she's right, but any-
way. Home Circle Tea's cap is the way, Home Circle Tea's cap is the
very last one they've been 'round
with, and all the children's a-wearin' with, and all the children's a-weari
'em ", a statement confirmed on then
spot by the moving panorama spot by the moating panorama c
caps bearing that legend.
Rhody put up her hard little fist
to grasp Rob's hand in ecstasy to grasp Rob's hand in ecstasy as
the bears came lunging down the
steeps, and Rob held her hand, smiling.
Inew not whether to slip the paper, then, the his face, I found
While at sight of his
myself willing euough, and eager, to do that, yêt the look of Bate's face
and Gar' Tee-bo's glooming on the
far edge of the group bade me and Gar Teebos glooming on
far edge of the group bade m
restrain the impulse yet a while. was thinking it might be better fir
to make my sail to Waldeck an send my message to the doctor, and
-to have another talk with Cuby. "Forward-a-march-a!", commanded
the keepers of their bears, in stenthe keepers of their bears, in sten-
torian Italian, mingled with evidences of a bad colld in the head. The three great beasts stood erect,
and marched in time to an execrable and marched in time to an execrable
tune sniffed wearily and perfunctorily through the noses of the three showmen; marched and counter-marched,
gigantic creatures, offspring of the gigantic creatures, offspring of the
wilds about them, who could have annihilated their keepers by a stroke of the paw and scattered the
multitude like chaff before the wind. Their eyes were sodden, dull. The
mighty wilderness that had been
theirs by right lay all about them; and they, tamed to earn their mas-
ter's bread and to forego their very nature - the epitome of awful patience
and of all-crushed dusire- they danced
and climbed the swas ing flagpole
and " said their prayers,
jibes of the crowd, wit
compliance of painfully up The tide was creeping in apace
with it came the wind of all bold with it came the wind of all bold
adventure and triumph over adveradventure and
sity and pain.
stleara-wrastle-a for the people," clinched and struggled
They forced combat, growling angrily, so well trained, indeed, to simulated
wrath that their huge embrace showwrath that their huge embrace show background of the sea and hills. There was a strange majesty about
them the wilderness was still in them; the wilderness was still in
them, and imperial strength. In my them, and imperial strength. to break away and make for the lair of the
forests that was waiting to receive forests that was wailing on with sovereign obedience.
"" No man is my keeper," I muttered. "I Io so because I will-
and I'll do it with joy, by God, be and I'll do it with ,joy, by Goa, be
cause I am a man.",
"What?", said Cuby " You make "ause What?", said cuby. " You make-
a talk to yourself, Jeem?" and she a talk to yourself, Jeem?" and she
laughed. laughed.
The crowd was dispersing. The keepers, with the hat of coppers col-
lected through the incongruous whining and scraping of the mighty bears,
had tied the beasts to a meal in the had tied the beasts to a meal in the ing-house" for refreshment. Rob
and Rhody were beginning the ascent and the hill. The release paper was
of till in my pocket, and there was
still much to do.
No, I don't want to talk to myself, Cuby, with you. It's in dead earnest, too." We turned, walking
slowly toward her cabin together. slowly toward her cabin together.
"You know, Cuby, I've always Yoved Mary Stingaree., I love her
still, but that's over.". ". God is good to you, Jeem," de-
clared Cuby, with a brave toss of clared Cu
the head.
". Now, you like to flirt with about
everybody, Cuby, and you've tried it everybody, Cuby, and you've tried it
a litite on me, when there was no a little on me, "hen there rough old
better subject. I'm a ron
fellow. I dont expect or reckon fellow. I don't expect or reckon
you could love me. But I've been you could love me. Rut I ve been
thinking; and it seems to me, when
we've got things settled, you and I we've better make out to sea together, and try some new port for
setting up a shanty. What do you setting up a shanty. What do you

Mr. Robert Miller, Stouffille, Ont..
importer and breeder of Shorthorns, writes: About a month ago. I sold to
Messrs Thos Scott \& Son, Sutton West Ont., the pure Cruickshank Butterfly bull,
Royal Jubilee $=69813=$, sire the Duthie Royal bubil. Imp. Royal Fancy (93217).
Secret buter and sold by me, dam Imp.
imported and imported and sold by me, dam Imp.
Jubilee Maid 2nd, importod by me. The
winning heifer calf in the herd of D. R. winning heifer calf in the herd of D. R
Hanna, of ohio, this season, was by by
Royal Fancy, and from a daughter o Royal Fancy, and from a daughter of
Jubilee Maid 2nd, imported in dam, ani calved in my possession. Have also sold
to John Goodfellow, Myrenall, Ont., the red bull calf from Mmp. Brilliant. Star
$=60833=$, and an imported Killoan $=608: 33=$, and an imported Kilblear
Beauty cow, with quality and milking feautures that would make any person
want a calf from her. The show-rings want a calf from her. The show-rings
of Canada and the United States this of Canada and the United States this
year have been most interesting to me, for in very many cases it was a contest
between Shorthorns bred from sires and dams that I had furnished, the best posi
tions almost invariably being given to them in the finish. In nearly every State
Fair, the "(iet of Sire" winning first and many timees second and thiring as first
were by sires imported or whoce cestors were imported by me. The win
ning bulls were the same to a graater extent than could be claimed by an
breeder or importer with regard to his amportations in any year. To make it
a short story. if the animals with a pre
dominance of thood furnished dominance of thood furnished by me had
been removed from the show-rings of 1908 a greater vacuum would have been mad hav been imperted more shorthorns. but nut
have has made half the improvernent :
one has one has made walf the improvement:
the breed. as elvl-ncind by the show-ring
of the last three vars

Tessre thettit \& Sons, Freeman
Kessrs. "I. Watt, Salem, Oont., Freeman heir noted herds, to tuke place at West

- Addingt

Mr. C. D. Wager, Enterprise, Addingty
County, Ont., claims the date Januar 14th, 1909, for an auction sale of im his home, particulars of which may br
bonked for in later issues of "'The Farm

Messrs. S. J. Pearson, Son \& Co., Me
 nd Berkshire swine, write: "Baving
nd 33 Shorthorns since last December Te have 25 head more to dispose of this coming year, which is our yearly increase
trom 27 breeding cows, including the trom 27 breeding cows, including the
finest lot of yo ing bulls we ever had. finas of them good enough to head first-
many of thass herds. Parties reguiring such will
clat Class herds. Parties requiring such will
do well to call and see our herd. We aim our Berkshires are a very prolific
atrain, as evidence the last five young. ows we sold have farrowed from ten to
welle pigs each, being their first lit-
duty on imported birown swis. Editor "The Farmer's Advocate": In your issue of sovember 26th, youn brought into Canada duty free on pre-
sentation of a Certificate of Registration in the American Brown Swiss Record
In this you are mistaken. Under the present custom regulation, duty has to be
paid. The reason of this is that there is no Canadian Record for Brown Swiss
cattle, and the United states not being
che the country of origin of the breed, the
American Brown Swiss Record does not appear on our recognized list of records. A quarantine regulation prevents the im-
portation of animals from switzerland, the country of origin, otherwise they might be armicted
Import
Certificates.
$\qquad$
$\qquad$ Sorses from the stud of H. G. McMillan. Stoux, 80 head, stallions and mares, sold
for an average of $\$ 460$. The highest price of the day was $\$ 1,000$, for the price for a mare $\$ 8330$ On Nov. 19 th,
the Pabst stock farm, Oconomowoc, Wis. The Pabst stock farm, Oconomowoc, Wis.,
sold 38 head of Percherons for an average

## NOT FOR MONEY SAYS MR, QUIRK

Would He be Without Dodd's Kidney Pills.

They Curred His Lumbago of Twenty Years' Standing, and Made Him
Feel Twenty Years Younger. Fortune Harbor, Nfld., Nov. 30--
Special).-Sixty years of age, but hale nd hearty, and with all the vigor of a
oung man, Mr. Richard Quirk, well. known and highly respected here, gives all Kidney Pills.
UI suffered
. Uumbago and Kidncy Disease," Mr. Quir syys, "and after consulting doctors ane aking their medicines, made up my mind
was incurable. I was unabla to work When I was persuaded to buy a box of Dodd's Kidney Pills. To my great and
happy surprise I had not taken half a ox when 1 experienced great relief.
 oney. I aun twenty years younger than Dodd's Kidnvy pille cure the Kidneys. Walthy Kidneys strain all the impurities
Iut of the blood. That's why they cure it of the blood. That's why they cure
heurnatism. Sciatica, and other diseases

An Unusual Cut in Prices of

## SLIGHTLY USED <br> ORGANS

This is Your opportunity to put a first-class organ in your home for Christmas, and do it at very little cost. Every organ
on the list is being offered a way below regular values, and the terms of payment require but a small expenditure now. Every organ is guaranteed, and each one will be shipped subject to
your approval. We agree to pay the return freight if not enyour approval. We agree to pay the return freight if not en
tirely satisfactory to you. terms of sale
Every instrument is guaranteed for five vears. Any instrument
We pay the return freight if not satis shipped subject to approval. We pay the return freight if not satis-
factory. A handsome stool accompanies each instrument. In order ing it would be advisable to send your second and third choices, in terms of payment

Organs under $\$ 50.00, \mathbf{5}$ cash and $\$ 3$ per month.
Organs over $\$ 50.00, \$ 10$ cash and $\$ 4$ per month.
discount of 10 per cent. for cash. If monthly payments are
convenient, quarterly, halt-yearly or other convenient payments not convenient, quarterly, hall-yearly or other convenient payments

HOMAS- 5 -octave solid wainut organ by the E. G. Thumas
 Spocial Sal Price $\$ 27.00$

Special san




 a beautirul instrument. Special Sale Price ........... $\$ 47.00$
 SHERLOCK - MANNTNG-An almost new chapel stylo Sherlock 19.00
 ( $\$ 56.00$
 (1).............. 863.00 ODERICH-Piano-aase organ by the Goderich Organ Co., in
 DOMINION-6-octave piano-case organ by the Domimion Organ
Co Bowmanvill, in mahogany-finished case. with end panels tret


 11 stops, 2 sets of reeds throughout, 2 knee swells, mousperoof $\$ 79.00$
podals. Just like new. Special Sale Price. HOMAS-A very handsome piano- -ase organ by the Thomas

 SHERLOCK-MANNING-A Very handsome golder oak piano-
 throughout, ${ }^{2}$ couplers, 2 knee swells, used leass than one vear. $\$ 85.00$
Special sale Price ${ }^{\text {BELL}}-\mathrm{A}$ very beautifu

 Price


 ESTEY-Sale Price



## Gourlay, Winter \& Leeming

188 YONGE STREET, TORONTO
 concrete-block wall Ans.-1. There is very littlo difference is conceded to be more trost proot. 2. The block silo is rather more ex 3. It would be quite safe on a solid Coundation, beginning at bottom with or gravel to 1 of cement, and ending ant
top with 10 of gravel to 1 of coment and reifforcing with two bands of twist ${ }^{\text {od wire }}$ 4. it it each course.
$\qquad$ chough not absolutely necassary.
5 In
In oither case a stone foundation 5. In oither case as
inches wide is desirable.

GOSSIP
The Canadian Accountant, a standart
 tised in these columns. Price 82, poos
paid to any addreas. The author an paid to any addreses. The author and
publisher is the Principal of Ontario Rusiness College, Belleville, Ont.
 American Shrophire Sheop-brodeders' Ao
sociation, Vol. 21 of the Podigroe Record

 bulky volume of over 1.500 pagaes, con
taining the record of sheop numbering aining the record of sheop numbering
trom 232979 to 254979 , showing a rom markable increase and diatribution of th breed.
In a certain Scotch village there lives
a haracter who was recently employed by a farmer to do odd jobs on the tarm.
duck was missed and the larmer A duck was missed, und the larmer sus ing Bob to him, he remarked: ". Boh what did yo
$\qquad$ Nlin, bit you dift" said. the tarmer
maying the game of blut. "tor I hear tauaking beneath your jacket." Bo 1 into the trap.
You couldn't do

Dr. Page's English Spavin Cure





 moey refundod and win oot will iryin Maico Conay madrent :

ABSORBINE

 Anso hivk, JRe, (mantuen in


## 30 Clydesdale Stallions Nill arriev at Guulph about the midide of Door <br> O. SORBY, GUELPH, ONT

Shetland, Welsh and Iceland Ponies
 broten to tarnese ad relizble in every why
DYMENT, Copetown P.O. and Sta.

5
Ilas Imitators But No Gompatitors. A Safo, Speedy and Positive Cure for

 Thruch, Diphtherike or Pamores

 The Lamenot-Willimes Cons Toronto, Ont.

## Radiol

1


 Bes Leg, Emiarged Glanas,
No Mair Removed. Un


 ne frask of "Radiol" will make







CLYDESDALES

SHORTHORNS
 JAMES McARTHUR, Goblen, Ontario Imported Shire Horses FOR SAle: TWO STALLIONS.
THREE MARES IN FOAL
 WILLIAM LAKING. HALIBURTON. ONT. For Sale! Percheron and Fremch Draft Duroc.Jersey Swine both sexes. ont.
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 Dr. Bell's Veterinary Medical Wonder
 Channonbank
Yorkshires
Clydesdales
one stalition rising three yearsi


ADVOCATE
QUESTIONS AND answers. Miscellaneous

LIQuID IN Stovepipe
We have as stone house with brick
chimneys and chimney tile in chimneys,
 Curnace pipes leak a black liquid when
the dampers are closed, and
at ot other times it is all right. We burn dry soft
olm. Generally, the fire is on several
ol elm. Generally, th
bours before they st
hours beirer
pipes were
nace has b nace has been in seven years and never
leaked so badly as this tall.
What is eteaed sus bady as this tall. What is
the cause of pipes leaking like that, and how can it be avoided? Subscritber. Ans.-Even in perfectly dry wood there is
given off in burning, as a product of given of in burning, as a product of
combustion, a cortain amount of water vapor, which, on coming in
vapold surface condenses
a coll
 torm. Where a long pipe leads through
a cold room, sulticient quantities are so condensed as to cause an excess of water
 with rust that is tormed, form
fensive black liquid mentioned.
stretch of pipe can be shortened, the the
trouble may be avoided.
Otherwise the
ond trouble may be avoided. Otherwise the
warming of the room is the remedy. It warming ore is kopt up the heat fro
a steady fro is
the pipes will warm the room, and, time, the dripping will cease. Another
remedy is found in arranging a lenglh ot


 mitted. This will avoid sweating
pipes or dripping.

Imp. Clydesdales and Hackneys

T. H. HASSARD,

MARKHAM, ONT
CLYDESDALES AND SHORTHORNN. - Bot thportiad
Are kin tation. G.Tr: Smith \&. Richardson \& Sons, Columbus, Ont

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${ }^{1}$
 Clydesdales by Danure Casticis fillics, at Toront frost and second pitizewined T. D. ELLIOTI, Bolton, Ont.

MP. CIYDESDALE STALLIONS AND. FILLIES.-Our new importation of stallions



JAS. J. brown. Manager, BRantrord
dectemier 3, 1908
QUESTIONS AND ANSWERS. Veterinary.

UNTHRIFTY COW Cow has not thrived well all summer.
times she seems quite well and eats well, then for a time she eats little, is rather uneasy, and suffers from diarrhea. She is failing in fesh.
gestion, without apparent cause, indicate sease of the liver, for which practically Hothing can be done. If the liver or ing should give good results: Take equal parts of sulphate of iron, gentian, ginger and nux vomica, mix, and give a heaped well.

ENLARGED HOCKS I noticed my mare's hocks swollen last spring. She is quite stiff and sore, and outside of each hock and the inside each is also swollen quite large. O. B. Ans.-Your mare evidently has a tense Dog spavin and thoroughpin on each hock. When these are so tens, a cure is doubtful. Blister the joints once every month all winter, and, if possible, give her rest. Take two drams each of biniodide of mercury and cantharides and mix with two ounces of vaseline, clip the hair off the parts, tie so that she cannot bite them. Rub well with the blister once daily for two days, and on the third day apply sweet onl. Let her head down now and oil every day until the monthly

WARTS ON TEATS Noarly all my cows' teats are literally
covered with small warts. They are too numerous to permit of the use of shears
or knife. Is it contagious? R. J. M. or knife. Is it contagious R. J. M. Lagious, but it may be possible that in your case it is, and the contagion
was carried on the hands of the milker. was carried on the hands of the milker
It is not uncommon for a crop of small animal without appreciable parts of an they often disappear without treatment. The usual method of treatment is the use
of shears or a caustic, but in this case either would cause such soreness that milking would be very difficult. Try the
daily application of castor oil. said to give good results.
ITCHY LEGS-OPHTHALMIA. 1. Three-year-old mare has itchy legs.
A scruff forms on them and she bites them. 2. Twelve-year-old mare occasionally
has sore eyes. They has sore eyes. They run water and she
becomes nearly blind. Two of the other horses took the same.
tagious? Ans.- - . Some horses, especially those
with bone of poor quality, are predis posed to this trouble quality, are predis of 8 to 10 drams aloes and 2 drams
ginger. Follow up with $1 \dagger$ ozs. Fowler' ginger. Follow up with 1t ozss Fowler's
Solution of Arsenic twice daily for week. Rub well into the skin of th
legs once daily a solution of corrosive blimate, 25 grains to a pint of wa n. This is periodic ophthalmia. It a constitutiona
not contagious. It a
disease, and the predisposition is con genital. If the other two are colts o
the old mare, or are all descended from the old mare, or are all descended from
the same stock, it can readily be understood why they should suffer. The at tacks cannot be prevented. Each attack
should be treated by giving a laxative
of either ail or aloes, of either oil or aloes, keeping the patient
in a commortabbe stall. excluded from
drafts and strong sunlight, bathing the drafts and strong sunlight, bathing the
eyes well three times daily with hot water, and after bathing patting a fer
drops of the following lotion into each Whiphate of zinc, 15 grains: fui
extract of belladonna, 20 drops; distille
water, 2 ozs. It is probable she wil
exnell eventually become it ind from cataract.

IHE FARMER'S ADVOCATE


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'1900 GRAVITY'' WASHER ad know For'll have your washing done and over in time to prepare a deoon
breakfast
for your hasband and familly. Waahing by hand or with a meohine on



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stallions and filles friom their noted Shire stud. high class representatives of the breed.
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Addrese : DR. C K. GEARY, St. Thomas, Ont.

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tion to all partso of the world. ITuring the winter months the erport of caile of the beef
and dairy breed will bea apecialty. Write for
and

ABERDEEN - ANGUS CATTLE Sor Sale: Some of the best straine Several fine heifers; also cows

## GRAPE GRANGE FARM, CLARKSBURG, ONT.


Angus Walter Hall, HOMESTEAD ABERDEEN-ANGUS
 Sebring vile, Ont. Beilt lephone. CLENGORE Preent offering: One bull 2 yeara
ABERDEEN $\begin{aligned} & \text { old, and three choice bull calves, and }\end{aligned}$ ANOUS 1 lot and Eold right GEO. DA visice
sONS, ALTON, ONT. Station, C.P. R.
shorthorn Bulls Ready for service. One will young things from Matcoliess, Crimmon Flower, Mise
 SUBSCRIBE FOR "THE FARMER'S ADVOCATE AND HOME MAGAZINE.'

THE FARMER'S ADVOCATE

w For three weeks I actually had to be tied like one feeds baby, because my hands and arms were so covered with eczema that they had to be bound up all the time. That is the experience of Miss Violet M. McSorley, of 75, Gore Street,
Sault Ste. Marie. She addis: "I could not hold spoon nor fork. From finger tips to elbows the dreaded disease
spread, my finger nails came off and my spread, my finger nails came off and my
flesh was one raw mass. The itching flesh was one raw mass. The itching
and the pain were almost excruciating. and the pain were almost excruciating.
I had three months of this torture and
. at one time amputation was discussed." "Zam-Buk alone saved my hands
and arms. I persevered with it and in the end had my reward. To-day, I am cured completely of every trace of the dreaded eczema, and If fervently hope
that sufferers from skin disease may know of my case and the miracle
Zam-Buk has worked." - Zam-Buk is without equal for eczema, Mingworm, ulcers, abscesses, pilies, cracked
hands, cold sores, chapped places, and
and ail skin injuries and diveseses, Dreggists
and storjes at 50 cents a boz, or post and stores at 50 cents a boz, or post
free from Zam-Buk Co., Toronto, for same price. You are warned against
dangernus substitutes sometimes ofiered

## 2ambuk

 what will follow? ${ }_{\text {dience. }}$ " ${ }^{\text {min! }}$


Give interna:ly, one ounce Fowler's So-
lution of Arsenic, night and morning,
every alternate week. It is good pracevery alternate week. It is good practice to clip a horse so alfected, befo
applying the remedies given above. TO TAN MUSKRAT SKINS. Describe the full process of preparin
or tanning muskrat skins for use.
want to use them for a jacket lining. Ans.-Tanneries can do the work properly, and with improved facilities could
make a better job than can be obtained make a better
by home tanning. The cost should not
be very high. If it is decided to tan be very high. Ir
the skins at home
the skins at home
them in soft water
them in soft water for two or three days
to make them soft and pliable and to make it possible to scrape ofr all the
men
fiesh and fat. When thoroughly clean, flesh and fat. When thoroughly clean,
put the skins into a tan composed of put the skins into a tan composed of
equal parts alum and salt, dissolved in equal water, about seven pounds of alum
hot
and salt to twelve pounds of hot water and salt to twelve pounds of hot water
being satistactory. After standing in being satisfactory. Arter standing in
this brine for a couple of days, they should be hung up and scraped well, in
order to soften them. Then place them again in brine for a day or two. Hang Apply a coat of oil, roll up in damp sawdust and store away carefully until dry
Then give an application of soft soap Then give an application of soft soap
and again roll in sawdust. ${ }^{\text {Since scrap- }}$
ing is the main operation in making the ing is the main operation in making the
skins soft, it is woll to pull them back and forth over a round pole
have become thoroughly dry.
MAKING SOFT SO
What is a good recipe for making sof
soap? How is soap liniment made ?
Ans.-Get a strong, large barrel and re
Place on a close platmove the heads. Place on a close plat
form, standing so that the lye will drip
well, and put a bit of board or or shingle well, and put a bit of board or or shingle
between platform and barrel to loave a crack through which the lye may escape
Cover the bottom of the barrel with clean straw, throw in a peck of slaked
lime, then fill up with good hardwood

 atn. When the barrel is full, scoop
out a place in the top which will hold
two or more quarts of water. Fill this
then $t w o$ or more quarts of water. Fill this,
place a vessel for the lye to run into, and leave until the water has disap-
peared. filling up the hole as necessary
with With water. When the lye begins to run,
in about 36 hours, watch it, and if no in about it back into the leach. Wh strong, large pailfuls of lye have been so
cured, pour it into an iron kettle and add
 leave for a day or two before boiling
Boil until all the grease is dissolved. I any grease still rises to the top after
couple of hours' boiling, skim it off an

QUESTIONS AMD ANSWERS Miscellaneous.

ECZEMA
Have a work horse, which, when not working hard and steady, takes a sort
of itch. At present he is well curried harness, and not fed too highly, still he will scratch himself on the wall and tear
himself with his teeth. Ans.-He has eczema. Wash thorough-
1y with warm soft-soap suds, applied with warm sott-soap suds, apppied solution of corrosive sublimate at the rate of 40 grains to a quart of water
Give interna:ly, one ounce Fowler's $\$ \mathrm{So}$ save for another boiling. Take a tea
spoonful of the strong soap in a sauce
and add weak lye to it, a teaspoonful and add weak lye to it, a teaspoonful
at a time, until the soap thickens nicely, remembering the proportion. Strain the
hot soap through mosquito netting
hot
meassuro it by pailfuls, and add the re
俍 quired amount of lye, stirring well. Ne
soap is very strong, and should be kep
in a very strong barrel. Soap-boiling it may be necesssary to mention, is usual-
ly done out-of-doors. ly done out-of-doors.
A satisfactory soap liniment can b,
made from castile soap (white, cul
 with occasiona
ture not above

DISPERSION AUCTION SALE OF ER Scotch and Scotch-topped Shorthorns, 30 Head of Highly-bred Scotch and a Number of Poland-China Pigs,
ON JANUARY IST, 1909. Thave never exhbited at the large fairs, nor dowe air wakentixing, And

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A. Edward Meyer, TWO IMP. BULLS $\begin{gathered}\text { of excellent buality, } \\ \text { co } 10 r\end{gathered}$

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## PLEASE MENTION THIS PAPER.

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QuT)
W. G. PETTII \&. SOMS, Fritiliming MT,

Shorthorn Cattle|J. A. WATT, and Lincoln sheep. SALEM, ONTARIO.
$\qquad$
 lora Station, G. T. R, and C. P. R can sell twelve youngs bulles two of them lowing J. T. GIBSON, DENFIELD, ONT P. O. Box 378, Guelph, Ontar
Breeds scotcn smortuoms Diefmesiony. Breeds scote most noted Scometh trimpsthave repre
 Scotch Shorthorms Lave dred's
bull
out
on



| Scotch |  |
| :---: | :---: |
| Shorthorns |  |

?
ynySPRING VALLEY SHORTHORNS.
 Toronto winners. Nearly every one a herd header.
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## 10

imported scotch Pleasant Valley Herd
Shorthorn bulls
Prat ofinas ?


J. F. mitchell, burlington, ont.




1854 MAPLE LODGE A feww extra good young SHORTHORN buls and
heifer for sale.
LEICESTER rem ram lambs by the grand champion ram. . Sanfor
choice ewes.
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Willowdale Stock Farm LENNOXVILE, QUE.

 J. H. M. PARKER, PROPRIETOR


Shorthorn Home-bred Bulls

jno. clancl, Manager. $H$. Cargill \& Son, Cargill, Onto
J. WATT \& SON


dechmien 3, 1908
Science and Practice of Feeding From a timely bulletin on milk-produc
tion, bearing on its title page the name of Herbert A. Hopper, and issued by th Purdue University Experiment Station ${ }_{\text {wexh }}^{\text {graphs }}$
macellaneous considerations Various means of preparing foods hav are cooked are no more digestible tha the same uncooked. In fact, some part, i. Animals may consume more of it which many times will account for the apparent good results. Wetting, excep
in special instances, when it is desired to tempt an ailling animal, is of doubtru may slightly increase digestibility, b should not be made a regular practic
with the foods ordinarily used Drylng, in general, doos not exert any
unfavorable influence uos nigestiblity not excessive. However, most green
loods are slichty more digost the same material as it is usually cured Certain foods known to have laxativ
qualities should find a place in nearly every ration. Those in which it is pronounce
should be fed moderately stimulation of the digestive tract in this
manner may prevent complete absorption sion of the same from the body. Again as concerns the product, certain food fats in the butter. others produce sof
of the former maj be mentioned cotton-seed meal and buck
wheat middlings, while to the latter be long linseed-oil meal and the gluter meals.
has yet been used, that will perm food increase the percentage of butter-fat i
the milk of an individual cow. In th light of present knowledge, it is impos
sible to feed fat into the milk of a cow in normal condition. The quantity of
milk can be influenced by feeding. Salt is essential to health, but does not
appreciably increase digestibility. Some appreciably increase digestibility. Som
cows are so greedy for salt that, when
allowed to help themselves, they will eat so much as to produce scouring. Suct
are exceptional cases. Sanitary conditions. sanitation pays, and pays well. Sunlight
is Nature's moter of growth. Experiments
calves conditions of feed and care, those fur-
nished sunlight nished sunlight made better gains in
weight, and were more vigorous, thar
those confined in dark those confined in dark quarters. Dairy
cows always appreciate a congenial en
vironment vironment. Much available energy is
wasted by compelling a cow to warm up
a cold, damp room, or dry out saturated bedding. If these comforts are not fur-
nished the cow, she uses considerable BALANCED RATIONS.
Ration, is the term applied to the amount of rood consumed by an kinds of
in 24 hours. There are various kind
rations to meet the needs of a variety of animals under different conditions
When the food requirements of an anima
When are arproximately met, no more, no less,
its ration is said to be balanced. A
ration ration suitable for a draft horse at work
will not he balanced for one at rest.
Neither will the ration that sustains a cow sroducing 15 pounds of 3.2 per cent
mil . aderuate for one of the same live
weil.
$\qquad$
$\qquad$ The mutrients contained in all feeding
stuff, animal bodies and milk, may b
divided
$\qquad$
$\qquad$
$\qquad$

THE FARMER'S ADVOCATE


INSTANT LOUSE KILLER KILLS LIGE


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E. T. CARTER \& CO. TORONTO, CANADA.
$\underset{\substack{\text { Write } \\ \text { for our } \\ \text { LATEST PRICE LISTS } \\ \hline}}{ }$ consignments solicited. We Pay All Express Charges. rompt Returns FURS




Stoneycroft Ayrshires Choice young bulls and heifers of the very best breed-
ing, combining show and dairy quality. Larse Improved Yorkshire Pliss from imported sires and dams, now ready to ship.
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HOWGLEN AYRSH।RES! AYRSHIRES $\begin{aligned} & \text { Bull and beiter calves trom pro } \\ & \text { ducing dama. Right good ones. }\end{aligned}$

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 ALEX. HUME \& CO., MENIE, ONTARIO. 5
 (1) My Ayrshires are producers as are females of all ages. Also my stock bull, Pearistone, a
high-class sire and show bull. Am now booking orders for bull calves. D. M. WATt, ST. LOUIS P. O. \&. STA., QUE. Ayrshires from or Prizewinulug Mord-
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 CHERRY BANK AYRSHIRES am now offering young bulls and herifers, true to
ype and high in quality. Some with
Pimp: sire and
 STOCK FOR SALEAT A number of WILLIAMSBURG, ONT. and beifersio
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## WAS WEAK AND THIN OMLY WEIIIED 73 POUMDS. HOW WEICHS 113 POUNDS.

Had Heart Trouble and Shortness of Breath for Six Years.
milburnis heart and merve pills ared Mrs. K. E. Bright, Burnley, Ont. She writes: "I was greatly trouhled, for six years, with my heart and shortnoss of breath. I could not walk eighty rods withdistance I got eo weak and thin I only eighed seventy-three pounds. I decided st last to take some of Milburn's Heart and Nerve Pills, and after taking eight boxes I gained in strength and woight, and now woigh one hundred and thirteen pounds, the most $I$ ever weighed in my lifo. I feel well and can work as well as over I did, and can heartily thank Milburn's Hoart and Nerve Pills for it all."
Price 50 centa per box or 3 boxes for
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NOW
in bulls from R. O. M. dams? Or better ye
E. \& F. MALLORY, RANKFORD, ONTARIC Holsteins \& Yorkshires 8
R. Honey, Brickley, Ont.

All surplus stock of Hoysteins sold
 ate prices. Spring Brook Holsteins and Tamworthh,
32 chocice young Tam worths from imp. sows. nd
sired by imp. Knowle King David. of best British
 of best strainss. Write for what you want, or, better,
ocoe and see. Will no exhibithis year. Stook
better than ever. A. C. HALLMAN. BRESLAU. Maple Hill Holstein-Friesians Special offering: Two bull calves eleven
monhts old
tion in in for for served ;in fine condi-
G. W. CLEMONS, St. George, Ont


 The Maples Holstein Herd! Headed by Lord Wayne Mechthilde Calamity, also
in the Record of Merit. Nothing for sale but choice Will HOLSIEINS Chocre bult calves, one to siv
 David R1te \& Sons, Hespeler, Ontario.
 cows with large A. . R.O. racoords, and sired and
 "Can' ye spare a poor fellow a nickel, "Didn'
to get a meal?"
"Yes, boss; but you see I ate so much
" got indigestion an' I want to get some

Black Watch
Ou a Tag on a Plug of
Black Chewing Tobacco
Sumb for (antivo exu
 till contain enough mineral matur tor and itimortanco ot the throe following
should bo carefully studied by the dairy man. protein. This is another name tor the group sen. Many times they aro sanoken or

 Eesential in tho growt ot otither plan
 trates as oil meal., coton sedid maal, any
Iuton, meal,
and the the texum inous hasy trom allata, cow peas, soy beans and
 rom the air) tho torge and seatis arr
ich in protein.
Lean meatt white
 try examples of protein.
ro to build muscle, roplacecom brobench-cow

 puccesstuch upon the proper use of pro
pends much und
tein. The selection of foods should b carefully made, first because those used are often
anese
purboses.

## сакиoнydrates.

Carbohydrates ind inde such substances
 constitutes the larger part of the food consumed by farm animals, and when
burned in the body, it furnishes the heat burned in the body, it furnishes the hea
and energy for body functions and mus cular activity. They are actually burne within the animal, the heat not neede
maintain temperature being throw Ir. Milk solids draw heavily upon the nergy of the cow. When carbohydrat
are fed in excess of the demands of th nimal body, fat may be formed. The are the sol.
butter-fat.

Fats or oils are common In both plan tissues and seeds, and in the animal body
Where they are characteristic of the spe The rough fodders contain com
cies. Thatively small amounts, while cotton
parality seed, flax seed, and corn, contain large
amounts. Fats perform, the same fund amounts. Fats perform the same func
tion in the animal body as do carbo
and hydrates, with the exception that they
are $2 \ddagger$ times as valuable. Fats and car oohydrates are interchangeable, one ma
take the place of the other, but neith can assume the function of protein. N
nore muscle can be replaced or built us or casein produced, than there is protein
in the food. Protein can take the place in the food. Trotein can take the plac
of carbohydrates or fats when either deficient, though this is an expensive sub-
stitution, but no amount of carbohydrates or fats will make up for a deficiency of protein.

GOSSIP.
To a Jersey Cow.
Mere's to you, Lady, sleek and fine,
True daughter of a royal line ! rom small black feet to tiny head Llady born, a lady bred. Those fawn-like eyes, that timid air
The Of fine reserve, plain as your face
Proclaim your ancient, honored race. Here's to you, Lady : May you know May daisies nod and cowslips spring About you like a fairy ring;
May bird songs mingle with your bell, That tinkes down the slack the sky.
And still pools mirror back
Where you may drink and wade brea Here's to you, Lady ! May you chew The cud of happy memory, too,
And coming lowing from the field, To gentle hands full udder yield. Grant me. I beg, this one request:
That I may drink this health to you
In that pure beverage which you brew.


FAIRVIEW The greatest A. R. HIN HERD in northern New York. Headed y Pontiac Korndyke, ine herhern Netew vire trk the cadeded
aving five daughters whose seven-day record

 Riverside Holsteins
 J. W. Richardson, Caledonia, Ont. Ay Bull Calves of the best performing strains
GEO. RICE, ANNANDALE STOCK FARM, TILLSONBURG, ONTARIO.

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Select your stock bull or family cow
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SPLENDID MUTTON, GOOD WOOL, GREAT WEIGHT

This highly valuable
NGLISH BREED OF SHEEP is unrivalled in its rapid and
WONDERFULLY EARLY MATURITY, all climates, and in quality of MUTTON AND LARGE PROPORTION OF LeAN meat is unsur passed Secretary, Hampshire Down Sheep Breeders' Assoclation, SAlISBURY, ENGLAND.

Sheep Breeders' Associations
American Shropshire Reezistry. Association, the
argest ive sock organization in the word. Richard
Gibson, Preside
 orcespondence to MORTIM
Secreary, Lafayette, Indiana.

SOUTHDOWNS $\begin{aligned} & \text { og good jearing rams, inluding the firm and third } \\ & \text { prize winers }\end{aligned}$ AND COLLIES.

Springbank Oxford Down Sheep|FAIRVIEW SHROPSHIRE EWES
 Wm. Barnet $\AA$ Son, Living Springs P. O., Ont And are being bred to another cham
Areof frst-rasa type and quality.
Write for circula and Write for circular and pricesality.
I CAN FURNISH JUST NOW A LARGE NUMBEK OF EXTRA GOOD Shropshire and Cotswold Rams A large number of extra good Shropshire and Cotswold ewes, twelve months old.
And a few very high-class Shorthorn bulls and heifers. Any of which will be sold at
moderate prices.
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| SHROPSHIRES <br> Flock of the most approved type. We offer good animals at reasonable prices. <br> W. D. MONKMAN, BOND HEAD, ONT. | CLAYFiELD Buy now of the Champion Cots STOCK wold Flock of America. 1906 Floc FARM! beaders. ranch rams ewes or differen prices reasonable. Write, or call on J.C. Rosi Box 61. Jarvis. Ont. |
| :---: | :---: |

## YOUNG SHROPSHIRE EWES

MAPLE SHDEE FARM. John Dryden \& Son, Brooklin, Ont.

OXFORD DOWN SHEEP Shropshires, Cotswolds
 the next tirty daves in lost to suit purchaser. Also
a few yearing and and ram lambs by importco
sires. Terms reasonable.
 POPLAR LODGE SOUTHDOWNS AND BERK



5


Large
English
Yorkshires





 d. C. FLATT \& SON, Millyrove, Ont CEDAR LODGE YORKSHIRES


Mewcas'le Tamworths, Short horms a nd
Cotswotles. 1 can furnh righ now a large num-
ber of extra choce boars fot for service, some sows

 S midion in in LEvERNTG,




Willowdale Berkshires !
Woo the leading honors at Toronto
this fanl
and all ageor sarele are bobth seexes
from imp. stock on


SUNNYMOUNT BERKSHIRES
 $\frac{\text { C.P.R. \& G.T.R. Milton P.o.nnt. }}{\text { PINE GROVE BERKSHIRES }}$

represented.
Miton..$\dot{\text { C. P. P. R. R. }}$.
MAPLE GROVE YORKSHIRES Atum

CHESTER WHITE SWINE

$$
\begin{aligned}
& \text { AND SHROPSHIRE SHEEP } \\
& \text { Write for orices }
\end{aligned}
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W. E. WRIGHT, GLANWORTH, ontario Morriston Tamworths.
Sherthorns and Clydesdale
Tmworths
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And 500 Valuable Premiums Given Away FREE
 The second sot spell the name of something vo all wear.
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TSVOE (something that is in every kitchen.)
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Write
send your answer to the above neatly and platinly on a stlp of paper If you ao
contest for



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Bis the of prise list for the most correct, best written and neatest solu1st prize
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2nd 2nd prize
?th prize
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One Hundred Laflee or oentse 14k Gold Filled Ringe.


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BOUT WHICH WE WILL WRITE YOU ANSWER TO THE ABOVE. No entries will be reoefved persons of elther sex over fourteon yoars of age dress ver replyilig to this advertisement, bo suro to writo your name and ad-
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## address

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(h) MONKLAND YORKSHIRES JAMES WILSON \& SONS, FERGUS, ONTARIO
 Yorkshires


##  WHO ARE WEAK AND AILING.

The failure of medicine, of quacks, and even of other so-called electric belts is no argument against Dr. Mclaughin's Electric Belt. No other treatment, no other belt, is in the same class with it. Everything else
IT HAS CURED THOUSANDS WHO TRIED OTHER REMEDIES WITHOUT SUCCESS.
Here's an Offer That No Woak Man Can Afford to Miss.

Every body dmimes and Honors a
Stmond Man.

## ARE <br> YOU <br> ONE P

 whose nerves are shaken, whose brains are muddlod, ideas confused, sleep restless, confidence gone, spirits low and casily depressed, who are backward, hesitating, unable to venture because they are afraid of failure, who want somed
It is to met who have part or all of those symptoms, and want new life, new force, new vigo

## DR. McLaUGHLIN'S ELECTRIC BELT

is no longer an experiment. It is hailed by thousands with loud praise, because it has cured them. "It cured me. I am well and strong as ever. What more could one ask ?" writes a man with a heart full of gratitude.
Do not be in error. This grand appliance is like no other. It is new. It has all the good points that are known in electricity. It gives a powerful current, but does not burn or blister, becaus and relieves at once.
Dear Sir,-I am fully satisfied with the result of your Belt. It is fully as good as you claim. It has made a new man of me. I have gained both
weight and strength. Fvery word turned out to be true. I could not believe at first myself that your Belt was as good as it is. My friends tried to make me believe that your Belt was no good, but I was strong-headed, and got the Belt. After wearing it for seven weeks. I knew that the Belt was good, and wide. -AL-"I have great pleasure in writing to you to say that, after a fair trial of your Belt, it has accomplished wonders in so short a time. The indigestion is gone, and I can eat a good, hearty meal now (what I have not done for a long time), and the pain in my back is about gone. In fact, I feel
like a new man, and will say that I am well satisfied with my bargain."-JOHN BEATTIE, Mina, Ont. like a new man, and will say that I am well satisfied with my bargain.
Dear Sir,-"You will excuse me for not writing before, but I was in the lumber woods, and did not return until this month. Yes, sir, my back is all right. It is better and stronger now than it has been for thirty years. It is a permanent cure. My head don't bother me ; nerves are strong; I am better all over.
You can un Co My case has certainly been a very serious one, and one of long standing. I had latterly and so long been unable to has worked wonders in my case, as I am working steady now. It is well known here that it is your Belt that has put me on any weark at all. Your Belt will be the cause of other sales for you."-WILLIAM J. BYERS, Nipissing, Ont
". Your Relt has certainly done me a great deal of good in every way, and I sha ROBERT DICK, Kimberley, O
for it. I write to let you know that my health is very good. My back is about cured. The benefit I received from the Belt is well worth the price it paid for it. The advice alone is worth the money twice over. My friends tell me that I am looking fine. I tell them I don't know whether I am looking fine or not, but I can tell them I am feeling more than fine. I shall speak well of what
success, I remain, Yours very truly, W. H. BELDING, Chance Harbor, N. B.
 thing be fairer than that?
PAT WYFERET YOUT ARE OUEI.

FREE BOOK: If you cannot call, then fill out this Coupon, mail it envelope, my Book, which contains many things you should know, beenvelope, my Book, which contains many things you should know, be
sides describing and giving the price of the appliance and numerous testimonials. Business transacted by mail, or at offices only.-No agents. Now, if you suffer, do
later. Act to-day-NOW.

| Put your name on this Coupon and send it in. <br> DR. M. S. Mclaughlin, 112 Yonge St., Toronto, Can. Send me your Free Buok, 41, ant and oblige. <br> Name. |
| :---: |


| THE SPICE OF LIFE. <br> A tourist in an out-of-the-way region of England put up one night at an amiable old lady's cottage, the village inn being full. <br> Now, the tourist was very deaf, which fact he took pains to impress upon the old lady, together with instructions to wake him at a particular hour in the morning. <br> On waking a good deal later than the time appointed he found that the amiable old lady, with a commendable regand for propriety, had slipped under his door a slip of paper on which was written: | A clergyman had conducted services in a heater audience," he said. "was a Scot from Peebles the sight of a clergyman in a theater reminded him of an experience he once had in London He went to a melodrama at Drury Lane. A man in front he recognized in this man his minister at reebles. He leaned forward and laid Ch, Dr. Saunders McIntosh.' he whisvered. 'what wad the people in the auld kirk say if I tell't them I saw ye here?' 'Deed. they wadna betieve ye.' Dr. McIntosh answered quickly. 'an ye needna | A certain regiment was on the from Philadelphia to Gettysturg. few minutes' interval between each. to keep each other in sight, the band drums leading. <br> The band soon got a long way ahead and on reaching a bend, halted for as fell minutes' rest. Presently up galloped mounted officer in hot haste and shouted for the band sergeant. <br> "What do you mean," he said, "by getting out of sight of the leading com pany?: | $\qquad$ <br> you mystlf. <br> DRAW IT Eastera school victure of that hen they grew cently to work Irawing pic"n and fine lly holdin the teacher you know $\qquad$ cow uf r be mar- |
| :---: | :---: | :---: | :---: |


[^0]:    GOSSIP

