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 ued in Woven Fence) These are imporably
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# The Farmer's Ndvocate <br> - Persevere and and Home Mragazine 

EDITORIAL

It is not so essential that a pullice man be
saying to-day precisely what he said twenty years
ago, as that his promensen and plans are sound
and sincere.

Buy your seed carly. Turchase by sample, test the order has seen filled. sample may be se
Ontina
dor t test.

A pair of 1 , $\mathbf{T}$ or pound drafters were purchased in Toronto by a milling couplyny lately for 8550 .
Several other horses of top quality brought $\$ 235$ Several other horses of of quality brought $\$ 835$
each
The eneral prices
tor each s210. "Nurf suid.'

To refresh Vour memory regarding the pro as to the nature of the amendinents now being sought, read. Mr. Raynor
Department of this sssue

One hesitates to comment on the price of hogs
these days, lest figures mentioned will be cecipsed before the ink is dry. Who knows but that ten
dollars a hundrectweight will be ralized for tive hogs before this paragraph strikes the reader's

What with ordinary and preferential, maximun and minimum tarifs, surtaxes, rebbates, conven
tions and treaties. besides bondiny
and othe special privilieges, international tariif relationships
are commenciny transparent and simple. Surely the reductio ad
$\qquad$
 1 have been missing to not having your paper
$\qquad$

An examination in milk-testing by school chil
dren was tried, with satisfactory results, at
show in australacin show in Australasia. Separate papers were set
for children under ten, and those between ten and for children under ten, and those between ten and
thirteen. Here is a most excellent idea. Milk testing should be done in every rural school. It mathematics, while at the same time opening the children's eyes upon a fascinating field of grea practical value, and familiarizing them with an hind of agriculture to teach in the public schools. The (ontario (:overnment Milk Commiscion has issued its report dealing with the condition of the milk supply of ontario cities, the The Province with reference to milk, and a comparison of these with regulations in
force in other countries and cities. The situation in Ontario, in the judgment of the Commissioners, is such as to call for more rigid inspection of milk at the source of supply by Boards of Health, the establishment of infants' milk-supply depots,
and the fixing of a per cont. of fat and solids standard for milk in order to prevent adulteraphysical signs of tuberculosis be removed from dairy herds, and that in cities of over 50,000 miilk should not be sold in shops except in bottles or other sealed packages. They also believe that,
after all is done, greater care of milk is needed on
$\qquad$
That legislation enacted, pending, or morally tain to introduced and passed, in various tically close the market for Canadian clover and grass seeds harvested from lands that are polluted with noxious weeds, is the significant assurance of sow clean seed, fight weeds, and, whan growin sow clean seed, fight weeds, and, when growing
seed, clean it in the field by eradicating the weeds before the crop is harvested. The time has come to make a fight for clean farms, and we cannot
$\qquad$
$\qquad$
$\qquad$ sced inspectors are being employed, is also worth
heeding. Comply with the law, and keep out of trouble. The law requires nothing that good armang practice and business honor would not de-

> Tax All Dogs.
an excellent dog-tax and sheep-compensation law
ament the ontario "Act for the Protection
Sherp, and to Impose a Tax on Dogs." The bill
also aims to assess a double tax ( $\$ 2.00$ ) on a sec-
bitches $\$ 5.0$ : apiece, instead of $\$ 2.00$, save in
the case of kennels of pure-bred dogs, which
might, as now, be granted a blanket certificate
for the sum of $\$ 10$ per annum. This bill is in
sulstantial accord with the tenor of the notable
Guelph in Necember, 1906, and will commend it self to all fair-minded men as reasonable and justThe loophole in the old law, by which, on petitionof 25 ratepayers, any municipal council might re-

## Bapn-plan Competition.

Since the days of the pioneers in the oldearovinces, a very great change has come aboutin whes, a very great change has come aboutonly have theen plog huit lumber brick or cementblocks but the interior arratisements have alsoundergone changes almost as great. Instead ofondergone changes almost farge room serving for kitchen, dining-roomone large room serving for kitchen, dining-room
and parlor, with one bedroom, in addition, on theground floor, and the upstairs part one large, undivided, well-ventilated sleeping-apartment, nofarmhouse of the present day, judging by theplans received in competition, is strictly up-todate unless there are, besides the full complemenof rooms on both first and second floors, closetsto the bedrooms, a bathroom, with completewater system, conveniences such, as dumb waiter
in the kitchen, and all heated furnacein the kitchen, and all heated furnace.
The barn buildings have also undergone liketransformation. When one of the settlers of earlydays had at last succeeded in getting a framebarn, $30 \times 50$ feet, erected in addition to his $\log$outbuildings, he felt as if there was no more tobe done in that line. But, as the area under cul-tivation increased, and more stock was kept, additional room had to be provided, and so therewas, from time to time, another little buildingadded-a shed, horse stable, sheep house, pigpen,and by and by another barn-until at length the
bill for shingles for the cluster or string of build-ings became serious Then began the era building down and rebuilding in one or two compacting down and rebullding in one or two compac
structures all that was needed for storage ofcrops, the stock being housed in the basementThis era has continued until the present time. Thease of cement concrete for basement walls andstable floors has aided in making this style ofbarn-building popular. In order to secure drynesand better insulation, air-spaces in the cementare desirable. Conveniences in the mannerof manurerangement of stock in the stables, have reducedthe labor of attending to farm animals very materially. Taken altogether, a complete set ofmodern farm buildings costs a good deal of moneyFashions in the layout of stables change, asthey do in everything else. We note that the useof the litter carrier has, to a considerable extent,taken the place of the team and sleigh for clean-
ing the stables. In harmony with thisthere is a tendency to have rows of cattle acrosthe building tendency to have rows of cattle acrosthe building, rather than, as has been the vogueThe long-row stable has much to recommend itbesides the convenience of cleaning out withteam, however, and even where a litter carrier isless trouble and fewer tracks than in a number ofshort cross rows. Another feature in many modern barns is the use of hox stalls, which haveplace in mostr of the plans received in competition.Cement silos, of course, are taken as an essentiapart of the equipment. A recoil from the systemof having water constantly before stock is apwith water trough, where cattle may get a littleerise, as well as watern-plan competition havelittle hope of pleasing everybody in their decision. They were quite aware that some plansmight be the very best possible for the conditionsthey were designed to suit, and yet not be suit-able for the average farmer. Some of these arepublished along with those to which prizes werawarded. One competitor had far too lengthy a

THE FARMER's Advocate and Home Magazine.
This LE

## dicultura

## THE WILLIAM WELD COMPANY (Limited)

## john weld, managr

hominte for The $\begin{gathered}\text { Farmer's Advocatb } \\ \text { Winntipgo, Man. }\end{gathered}$
THE PARMER'S ADVOCATE AND HOME MAGAZINE






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RETTERS intent be enclosed

 (10e WE



ce alyco wanocted with the paper
ddres-The farmer's advocate, of
$\qquad$
they were lacking in that respect. One compre only in conception. Measurements were lacking plan was given. All these things had beigement platermasing the decision. Clearness of plan and
detern thing of description also counted for a good deal. The the neat engravinge reproduced fom apparent in redrawings.
The chief difficulty with the nincteen excellent that were worthy of a prize, but in deciding which readers will doubtless be able to erot valuabla suggestions from the published results of the hard
study of practical men which appear in this issue.

Constructive Politics for the Farmer.

Pair subject for consideration when Federal is
Provincial Parliaments are assembled to dis charge their legislative functions. In Canada, so
peculiarly fitted for agricultural pursuits by nature and the traditions of its people, the relation, speaking broadly, is favorable. At the political
picnic, or in the conventional address of welcome. t may become perfunctory, but at periods like tangible expression that counts if progressive measures are to he kept in right relation with
the comparative importance of the industries concerned. The oldest of the country is yet new, and covers half a mighty continent with almast are embarked in every hranch of agriculture, and must cope with an illimitable array of pests, in cluding weeds and diseases. Our own populafor supplies, are becoming more exacting as ada the condition and quality of their fool and raiment. Already, the nation of $80,000,000$ people
more, rather than less. The demands of mili-
tarism and industrialism make Germany hungry To develop and conserve is, therefore, the dual problem of Canada
Other nations are tremendously alert, and we hundreds. They are gathering by scores and men ins our brightest and best-trained young ada. Will it not pay this undeveloped wominion to keep them here, and compensate them adequate ly, when there is work pressing for the doing in institutions or agencies devoted to agricultural education and research? Some of our good should can hardly be satisfied as to the extencting baronial palaces for art and curios, and manning without stint public departments perhaps distantly utilitarian. There can be little doult, as was pointed out at one of the sessions of the House of Commons Committee on Agriculture, by M. S.
Schell, M. P., the chairman, not longma, that the wealth which comes to the country through agriculture is vastly more than that which comes
from the expenditure of millions in other ways that receive popular approval and the approbation of public bodies. Is it not, then, absurd and humiliating that agriculture should have to go begging at times for adequate recognition in the National or Provincial estimates for public servhand out millions with alacrity thousands, and ome for a regenerated public sentiment on this question.
ario has speciallystration The Province of On Agricultural College, representing the Department of Agriculture in less than a dozen counties out hese men has a hundred, and the work of some of tural education, and of much value to their dis ricts, and in some cases to the whole Province Would it not pay Ontario a handsome dividend at work promoting promising many of these men in their respective localities, and keeping the De partment at Toronto and the Agricultural Col lege in direct touch with the situation? The work carried on by them is a wholesome incentive particularly to young men. business interests of the people, we are building up with infinite care and ability, with headquar tion at ottawa, an efficient meat and food inspec Canada and all packing establichments covering al export or interprovincial trade. Disputes or tif ferences of judgment arise locally as to casces carcasses condemned by inspectors, or regarding coloring matter or other materials used hy manu tion to Ottawa. Then, acain. sent for determina serum, in specific doses, ready for injection, are culosis and anthrax in cattle, or glanders in
horses, and so on. For a work of such vast importance, there is, by the Central Fxp. Farm, at work with the means at hand. But will our readers credit the statement that the staff consists
of one man, an assistant, and the caretaker ?
They are already crowfor for nalytical work is sent over to the Chemist the other problems. Additional cases might he cited where work is already pressing for the services of
experts, and avenues of fresh cendeavor oven for he promotion of agriculture. We believe that colture and his chiefs in a well-considered of Agri-
and deIn the Ilouse of Commons and senate there is a suls.antial-and, the way, there should be arivate capacity directly with farming. At every hose of other profussions men, together with hemselves felt solidly on behalf of woll to make the game of politics is engrossing, and sparring on Parliament Hill, to the cursory ofserver, agri-

Disinterested observers M. I. s that it should. isinterested observers are thinking that muould, ing leaders in the the simply discrediting each of such cases will grow more that frowned down on both within and with they aro ment, and that we shall see a stentily Parliabody of fearless, independent sentiment in ing port of constructive measures in the interests suponserve, such as the Search for Information, Conservatio
Marketing.

City vs. Country Life
bx one who has had experience of Eaitor The Famer
country life, and the outlons regarding city vis etc., on the farms and orchards of Ontario energy, What are the causes of the increased nriceriously, farm products? The principal causes are all general poor results of unscientific farming, and the desire to live in cities
sire applies to all classes.

$$
\begin{aligned}
& \text { One can say we can understand why the rich } \\
& \text { gravitate to the aity, with its varied advantape }
\end{aligned}
$$ of social life, pleasure, education, and the adages tatious display and rivalry of wealth, but cannot understand why the poorest class, the laborer, the

artisan, the farm hand, do ; but human nature is artisan, the farm hand, do ; but human nature is more social life and pleasure than is obtained in the country.
the discontent, or, rather, the desire of the postand the discontent, or, rather, the desire of the poor
to live in villages, town or cities. A millowner in the country north of Toronto, offering a
big wage for a night watchman told big wage for a night watchman, told, the writer Their repeated statement was, "It was too lone y; they would rather starve in Toronto than keep the position." A large manufacturer, just
outside of Toronto, informed the writer that had great difficulty in obtaining labor and had always to pay higher wages than in the city. The writer has difficulty in getting labor from a near-
by village by village
problem. Probably it can be slowly accomplishe by such papers as as 'The Farmer's Advocate" 'and
others proving that, for the areater major yours proving that, for the greater majority of accident of birth, a competency for old age can be more easily obtained in the cultivation of the land, will with less mental strain, than in city life. It munity a higher ideal of living and social life. It ion of labor the cities, with the concentrafacturing plants and lanse capital in large manuwith their thousands of employees in one concern, employees future for the great majority of the tories and small indepandeart see of small facday has disappeared for a moderate competency or the many. It is the day for large fortunes In business, the manarement is and
In In business, the management is always seeking
to reduce cost, and increase profits by every econ-
omy and improver farming there is much of profit, but in Canadian the barnyard, left for maste-waste of manure in
draining could be done, increasing the profit of
the farm in greater yields of crops and value of
the farm the farm. The net profit could be further in-
creased in farming and orcharding by the judicious
apmlication clovers In comparison: In business, even if one has
capital. there is no assured success, but withaut 1r. it is almost impossible. Cash discounts,
ranging from 12 to 20 per cent. interest per an-
numg for num for the cash buyer, almost precludes succulture, if one has a on time. Whereas, in agrisobriety ain virtues, as common sense, industry, sobriety and economy, every one should be able
to succeed, and gain a competency for the "gloriIf a young man has extra ability, and a pre-
litection for lusiness or the professions, let him
ry it. There is a greater goai for a few, no In the country, the social life could be imNace for a me married hired man, a house on his Nepe, as well and satisfactory to the emhis family. The as to the employer, and hut little expense, be made more comfortable, by
kitchen and dining-room at right angles to front part of house, thereby having kitchen and dining-
room facing road. and family should be room facing road. hobby they may have, so as to
encouraged in any
lessen the monotony of housekeeping. There should lessen the maciability, more trips. Let the wife and
be more sor
family go to all the soirees, picnics and gardenfamily go to all the soirees, picnics and garden-
parties in the vicinity. Encourage the family to
pard parties in the vicinct, and provide it.
read good litierature, and
"The Farmer's Advocate," by shawing the un-



## HORSES.

## The Standard-bred Horse. -I.

The Standard-bred horse is the only creation of his species that can be credited to North America.
Perhaps the word "" evolution "should be used, Perhaps the word " evolution " creation," but there he stands, soli-
instead of "o se se instead of alone, the only equine that owes his
tary and ahe
or birth to the northern half of this continent.
Where did his ancestors originally come from Where did his ancestors originaly come rom nor definitely. But, roughly speaking, he came Vermont and New England generally, and thence was transplanted to other States of the United
States, and to Ontario and other Provinces the Dominion of Canada.
The first-known horses of the tribe came from
Quebec, Vermont, Maine and Massachusetts. Quebec, Vermont, Maine and Massachusetts; thence
they were taken to other parts of North America they were taken to other parts of North America,
and wherever taken and used for breeding purposes, they stamped their image and character on the breeds with which they were crossed. The
Morgans, among the progenitors of the StandardMorgans, among the progenitors of the Standard-
bred horse, were not large animals, but they were probably the best general-purpose horses on the continent. They could trot, some of them fast,
walk fast, were good farm horses, and for winter walk fast, were good farm horses, and for winter
lumbering, where the snow was deep, were un-
rivalled. In such places, under deep-snow conditions, a team of Morgans were worth a carload of Percherons or Clydesdales; neither of the latcer can, as a general rule, go through deep snow
and that, in a country like Maine, Quebec and the Maritime Provinces, renders them undesirable as a
general-purpose horse, while a sturdy Standard-general-purpose horse, while a sturdy Standard
bred fills the bill to a king's taste. Away back in the early part of last century,
Canadian Pilot was taken from Quebec to Ken tucky, and there coupled with the hot-blooded
mares of that State. From him, in the third generation, came the dam or a high-wheeled sulky; and the same mare, Miss Russell, dam of Maud S 2.08:, by Pilot Jr., 12, son of Canadian Pilot
gave the Standard-bred Nutwood 2.18 , a grea pacing brooders, and the greatest trotting and sell was also the dam of Mambrino Russell, a suc-
cessful sire. To show in detail the produce of this remarkable brood mare, Miss Russell was, we may state, giving as our authority Wallace's Year-
book for 1908 , one of the greatest of brood mares, when her descendants are considered. She
produced five trotters and two pacers, six sons that sired 190 trotters and 54 pacers, six daugh ters that produced 11 trotters and one pacer, all
in 2.30 or better, among them Maud S. 2.08 , and in 2.30 or better, among them Maud S . 2.08 . and
the mighty sire. Nut wood. 2.18 . Another daugh-
ter of Pilot Jr., to the cover of Dictator 113, gave to them. They could outwalk, outrun, outwork
Jay Eye See 2.10, one of the first champion 2.10 through a winter's snow-and there was snow in
trotters. Another Happy Madinother. Tackey, 2.26, mated with those days-any heavy, lumbering team of horses Medium. Medium 400, gave the great sire, Pilot that ever lived, at least, in these parts. in the veins of a large number of Standard-breds Standard-bred, but much of the blood flows in ped, it proves a vein rich in all that is golden in their veins, and their basic origin is much the the harness horse of America. How did Canadian filot originate? You can search any man for


Maud S., $2.08{ }^{3}$
that, and fail to discover it. Like Topsy, in
Uncle Tom's Cabin he " just growed "in the peUncle Tom's Cabin, he "just growed " in the pe-
culiar enviromments of the Province of Quebec. He belonged to a itype that in the seventeenth century was evolved to suit the peculiar conditions in the Northern States and Provinces of North America. Up to a comparatively few years ago, all the and four Provinces were done with these original trotting and pacing horses. The stage coaches of


Joe Patchen, $2.01 \frac{1}{4}$, Pacer
the old days were hauled by them. In these old days, too, when these shimbuilding the largely engaged in shipbuilding, the timber was
hauled with these horses, assisted by the patient ox-another good snow-draft animal. Anyone who remembers or gathers by reading, a knowl-
edge of these small-seldom reaching 1,100 pounds dge of these small-seldom reaching 1,100 pounds
-sturdy horses, must feel like taking off his hat
same. They are not fast trotters, but most of
them fast enough for road purposes, while now and then one of them can hike along fast enough
to keep out of the dust. In earlier days, when wagons had not come into general use, they were used under the saddle, and good saddle horses they were-sure-footed, strong-backed, and with great
endurance. To understanci just how good the endurance. what fast trotters they were, we thef the curious to the first chapter of "The Clockmaker," a book written by "Sam Slick" (Jus-
tice Haliburton) between 1820 and 1825 . ${ }^{\text {The }}$. tice Haliburton) between 1820 and 1825. The
author thought him then as good a horse under author thought ind as and of Cleveland, thinks him now. But the Standard-bred, as he is known to fame
to-day-and to-day-and a famous horse he is-had infusions
of other and faster blood, notably from Imported Messenger, a Thoroughbred that came from Eng Messenger, a Thoroughbred that came from Eng-
land to the United States in May 1788 . This
horse and his sons seem to have increased the horse and his sons seem to have increased the
speed of the trotter wherever their blood was speed of the trotter wherever their blood was
intermingled. It gave the Morgans, the Pilots, interminglea. antive trotters, length of limb, more
and other
lung power, a greater stride and the ind lung power, a greater stride, and the indomitable racing qualities of the English Thoroughbred.
Not that there were not fast trotters fifty years ago without Messenger blood in their veins, among them Black Hawk 5, and his renowned son Ethen Allan 43, neither of which possessed, as far as is
known, any Messenger blood, but the blood lines of those two horses, notably the first mamed, are frequently found in the pedigrees of the fastest
trotters of the present day. trotters of the present day. Abdallah, a grandson of Imported Messenger, is given the first figure. But, for the sake of ac-
curacy-it is better to be acurate than curacy-it is better to be accurate than gramma-
tical-let us state that the numbering of so-called Standard-bred horses was begun on a technical basis, and was purely fanciful on the part of the author of the plan. However, he laid the foun-
dation well. He selected as the leading progedation well. He selected as the leading proge-
nitor of the breed the one from whom me its
greatest speed. niter or the breed the one from whom ime its
greatest speed. Those immediate descencants of
Imported Messenger were larger horses than the Imported Messenger were larger horses than the Morgans, but not so good-looking nor so strongly
put together. The dam of Abdallah 1 was the trotting mare Amazonia. This mare Amazonia was undoubtedly a product of the old American
trotting breed to which we have referred. She trotting breed to which we have referred. She brino, son of Imported Messenger, she produced Abdallah 1. Presumably, she controlled the gait of her illustrious son, as her kin did with the
stallions mated with them three 2.30 or better trotters and one pacer, but he begat the dams of seven 2.30 or better trotters, among them the dam of the great Gold-
smith's Maid 2.14. Abdallah 1 only begat one producing son, at least, of any note, Hambletonian 10, popularly called by writers on the Stand-ard-bred horse." "the great progenitor of trot" Hambletonian 10 (Rysdyk's), b. h., foaled
May 5th, 1849, by Abdallah 1: dam Charles Kent mare, by Imported Bellfounder; grandam One Eye by Bishop's Hambletonian; great-grandam Silver-
tail, by Imported Messenger." So is recorded the pedigree of the "great progenitor of trotters." It will be sen that he was inbred to Imported Messenger, with a strong outcross to the English
trotter. Imp. Bellfounder and a rempter





 fast as thate But it was as a progenitor
trot ing
sires and dams that Hembletonien




 or better, number up in the tens of thousands.
prove that IIambletonian wha
a great
 Nas a great trotting horse, and acquired a race record of 2.22 , and won many a hard race. As a
sire, he exceeded his own sire, having begotten 72
trotters and 11 pacers, who made records or better, 103 sons who begat 2,036 trotters and
1,016 pacers, 109 daughters who produced 142 trotters and 56 pacers who made records of 2.30
or better. The most noted of the sons of George
Wilkes 519 who became sires are: Alcantara -29 Wilkes 519 who became sires are: Alcantara 729
-118 trotters and 52 pacers; Baron Wikes 4758
-110 trotters and 31 pacenc; Citamber -110 trotters and 31 pacens; (:ambetta Wilkes
$4659-101$ trotters and $10: 3$ pacers; Guy Wikes
$2867-81$ trotters and 11 pacers: (whose dam was a Morgan mare)- 111 trotters and pacers; Alcyone $7: 32-50$ trotters and 9 and 24
pacers
(Strangely, the Yearbook does not give this preat horse a place under his sire, hut, to follow $h$ career further, it may be stated that his sons be
gat 370 trotters and 178 pacers, and 32 of his daughters produced
Alycone died when only about ten years of age.
Among his other sons, he sired McKinney 8818 , Among his other sons, he sired McKinney 8818
2.11, perhaps the greatest sire of extreme spee
that has ever lived He has ahout a score that has ever lived. He has about a score an
a quarter in the 2.10 . ist, and 96 trotters an
21 pacers in 2.30 or better. while his sons hav 21 pacers in 2.30 or better, while his sons have
hegotten G4 trotters and 222 pacers with standard
records. Indeed, Gioorge Wilkes 519 was a greater
sire than his own sire, Hambletonian 10. The sire than his own sire, Hambletonian 10 . The
pedigree of the dam of George Wilkes is unknown, and she may be written down as one of the old-
time trotters that the environments of the horse
tribe in North America developed. (To be concluded.)

Will Miller's Bill Injure HorseEditor "The Farmer's Advocate":
As an observer of the eniects of gambling and
racing on the body politic, I have not the slight. racing on the body politic, I have not the slight-
est hesitation in saviny that the opponents of the est hesitation in saying that the opponents of the
bill have manufactured a bogey. Some are ear-
nest men, really believing what they state to be facts; others are, of course, arguing for an inter-
ested purpose. ested purpose.
The discussion, pzo and con regarding the bill
seems to be wayred oyer seems to be waged over the problematical effects
of the bill on racing, and its furthe influence
(solely inimical, according to some worthy gentle(solely inimical, according to some worthy gentle-
men) on the breedine of Thoroughbreds.
It has been urged that, unless racing is encouraged, the hreeding of the race horse will de-
cline and dwindle The breeding of the racing
type of Thoroughbred might, and if that was the result it would not be an unmixed evil.
The champions of the racing Thoroughbred,
who are really skulking becind the other and the Thoroughbred is said to have done for other
breeds of equines, but have carefully omitted or suppressed any of it
rather than justiees.
The opponents of the bill, in their champion-
ship of the race-horse, have overlooked three
things: First, that Great Britain, where the things: First, that Great Britain, where the
Thoroughtred is kept, has a large number of wealthy and mewe or less idle men, who for
amusement, breed, race and bet on horses. Second in Canada, where these conditions do
not obtain, any breed to be worthy of the support or countenance of our Governments, should Third, in Great 1sritain, the home of the breed Wentioned, comparatively few studs are to be
Ound, and thosio few in the hands of men who
fare not as to the showing on a profit-and-loss account. Even tharic a res is continually being engineered or raised. that the Covernment should
encourage the hreeding of army remounts ; or, in other words. subsidiz. the Thoroughbred stalion! weed not here consider the first item, but the second should
oughbred !
Can
ing that the breeding of Thoroughbreds has proven
profitable or worthy of encouragement? In the
majority of cases men who have attempted to
make a living by the breeding of Thoroughbreds
are financial derelicts. Further, let us look back
to the Western ranches, where the Thoroughbred
blood was largely used. of a ferv noted running horses, such as Grey
Eagle, the horse industry of that area of country was in a parseus condition, that area of did not revevive,
despite the visits of 13ritish remount men, unti) the Thoroughbred stallion was abandoned, and
the draft, Hakney or French Coach stallions sub-
stituted. Further orer stituted. Further, everybody who has had ex
perience of the Western horsco perience of the Western horses at that time,
knows the produce from the ranges were wild,
small, of poor conformation, untractable, and knows the produce from the ranges were wild
small, of poor conformation, untractable, and
made no money for anybody. The Thoroughbred of the racing type, was the great improver ?
used by our brothers, the remittance men, fro 1875 to 1895 . The change to the other broeds
18 , The has been beneficial. True, some of the foundation stock had considerable of the blood of the running
horse, but it remains to be proved that it was an advantage. Is it not a fact that the racing fraternity care not two buttons for the welfare of the breed, and that the Canadian and American wedy equine specimens than ever before? Is it not also a fact that the continued racing of the
Thoroughbred renders it a less desirable horse to
use for riding or driving and use for riding or driving, and also tends to nerv-
ousness and irritability and ungainliness in the
bread breed and its grades? No other breed has to its
credit (except it be its contemporary, the Stand ard-bred such a percentage of equine misfits, or qualities or unsoundecsses; and now, forsooth, to moral progressed is to be used to bar and hinder
The Thoroughbred standpoint of utility, if it is to judged from the any place in Canadian horse-breeding; e.g., in the breeding and
production of hunters, jumpers, saddlers, ride and drive horses, horses for fire departments, etc. It
is well, while on the utility phase of the question
to to refer to the Dublin (Ireland) Horse Show; prac-
tically a show of the Thoroughbred and half or quarter breds-all of the utility type, and not of
the racing type-and where will we tind such an
aggregation of buyers for horses oughbred blood?
The assertion that the courage of the Thor withbred depends on its being raced, is on a par
with. bill. The idea is more traditional and nebulous
than these authorities would advance in surp of an argument on any other important question,
It is also common knowledge in Canada that the
deterioration deterioration of a farmer begins with his attempt breeding in Canada is practically in the hands of whe farmers. Further, so soon as a man feels
what he considers the instincts of a gentleman,
or near-aristocrat, he thinks thater or near-aristocrat, he thinks that attendance at a hallmark upon hime placing of a bet will put the to leave the breeding of Thoroughbreds to the necessary. I'sed judiciously, a dash of blood is stallion on marres of good size has proven benefiand but the stallion must have lots of substance, and be ar sood-tempered horse if satisfactory re, Miller bill will, by prohibiting betiling have ho ho
detrimental ressen the of of defaulters, absconders and

Horse-breeding Problems in

Australia
over. The veterinary surgeon is a necessity. World enforcing certification The various Australian ment by refusing to admit to the arema any un-
sound animal. It has astonished the most advocates of the reform the number of stallions
found to be unfit, in most cases amountine to per cent, and sometimes running up to 50 , The
trouble is that now, in the absence of owner will not enter his howse for the show if he
thinks there are still under offir to the unsurpecting pullic No while, the public are thank will that an improsed
methon of novel of horse-hreeding las eot at improsed
Dominion should reccive four premiu ounde
ions. The premiums should be ..... for light stal.
Government
dness.board of five practical farmers, with a Governyment
officer to exainine the horses for soundness. The
proposal was made with the hope of encouragingthe production of honses for the remount service,
so scare all the world over
In your issue of Felruary 17 th , "Scotland
Yet ". writes, in his Scotitish letter, about a regia
ration dilliculty which reachesrecords of both which reaches to the Clyand and Cegis Canada. In a dealeage, Secretary of the scottish Society, completeileAnd no excuse can be offered for the writes,that was made, as the horses were well mistakeseems to persons in this country," well known toLet me
lichardson members of the firm of Sumith ofdales, and, were in Scotland buying o feers purchased, was Slydes
Henry, recorded atas Sir Henry (13200), described in the sotch bookfore off leg, broken stripe in face, little white onbought him, we were shown his pedigree in we
Scotch book of 1906 , and theanswered exactly in every particular to this de-
scription. Sir Henry wounht
hear anything different

$\qquad$
$\qquad$Sir Henry" should be " Braidlie Prred; that
Light bay, ratch in face: ioaled March vame:pedigree-as we had motter-horse, markings and
Sut in 1909 only the horse with the pedigree of
Acco himself in correspondence with Mr. Brant,
been changed in the sell, saying the pedigrees had
laid the done in cold blood, and Henry. Allthe Canadian Clydesdale Association and hesidered it of sufficiestitimportance that he at con-
called a meeting of his Board
had all the 29th of October. Mr. Brant and I
was gone carefully over, together with the de- de
scription of the two horses, as given in the Scotch
Book ofscription of the two horses, as given in the Scotch
Book of 1906, and the unanimous decision of the
Canadian BoardHenry 101011 (13200), as recorded in Vol. XVspondent coolly says all this was your correinquiry. It would be interesting to compare
the inquiries made in toimpression is made in the two countries, anpare
any matland Yet ", would have to
change his mindlange his mind, when he sets tho Canadian As-an opinion upon all points that Canadians have
in very close touch with it since its incertion,
and I have yet to learn that we are breaking a
The Canadian Board decided, on October 29th
there should he known as Shange in Henry, and that
orevious to this was notified that it would be un
veilage issued an of this information, Mr. Mac
ot hy Braidlie Prince.
The Canadian
harkings of Sir Heard also agreed that theould to made. no Canadian was changes likes this
he mar no brotherly. love, this will likely end
, Menry (132no), and Sir Hent
anada. Sir Henry $[6104](1320)$ ) will remain

## Canadian View of the Registipa tion Dificuity <br> Canadian View of the Registipa tion Dificulty.

this de-August,


THE FARMER'S ADVOCATE.
trining to the
cow in a herd.
REmarkable artesian wells. interior of Australia. The supply is being tapped in large areas once thought to be hopeless. In others no great depth is necessary before reaching the supply. The deepest bore is at Patcheawarra, South Australia, nearly 5,000 feet, from which the water spurts up at boiling point. The great-
est yielder is a bore in Queensland, which sends to the surface $3 \frac{1}{3}$ millions of gallons per day. The Euraba bore in New South Wales, 4,005 feet, prot it has a finishing diameter of six inches and a flow. of over a million gallons a day. Many of these bores are put down by State money, r
payable during a certain number of years by the owners in the benefited area. The water is ca ried for miles in small channels.

TIPPING THE HORNS
Dehorning is regarded by some people as very
necessary in the case of cows which damage cach other by the practice of gows which damage each cruel. One dairyman says that he has a pla
which obviates the catting away of the horns. He simply saws away the point of the horns
about a quarter of an inch, and declares it is about a quarter of an inch, and declares it is in-
credible the effect it has, while the operation is credible the effect it has, while the operation is
no disfigurement to the animal. He has seen some of the worst rippers completely end the
habit after this has been done. Apparently they
find that they have not the find that they have not the power they formerry
possessed, or it may effect some nerve in the horn. possessed, or it may effect some nerve in the horn
Usually when farmers cut the horn they quite de stroy the appearance of the cow, and for this
reason men shrink from doing it reason men shrink from doing it. After the rough edges may be filed smooth, and no one would ever notice that anything had been taken
off. But the cow is conscious of it, and she comoff. But the cow is conscious of it, and s
mences a life of peace with her neighbors.

SHEEP KINGS AND barons. Sir Thos. McCaughey, of Coonong, N. S. W.,
used to be Australia's wool king, with sheep. But of late years he has reduced his flocks considerably. The distinction now belongs to Squatter Jowett, whose properties are mostly milkion next lambing, bar drouths. Sidney Vud-
mex man, who controls $25,000,000$ acres of leasehold
land in North and Central Australia, is the cattle land in North and Central Australia, is the cattle
king, and is probably the wealthiest squatter in the Southern Hemisphere. The biggest wheat farmer in Australia is Green, of landra, N.S.W., who farms 20,000 acres. He sold his crop of
150,000 bushels this year at 4 s . per bushel. He 150,000 bushels this year at 4 s . per bushel. He
is now building a mansion on his property, which
is to cost nearly $£ 100,000$. to cost. n
Australia.

Another Complaint Re Sheep Judging.

> The Farmer's Advocate " of February 3rd judging sheep. I was very pleased to see this natter taken up by one who is able to see and whether the judge is competent to act as sul am sure the many years of breeding and showing experience that Mr. Campbell has had in judging he ribbons when acting as judge, should add weight to the remarks made hy him regarding the insatisfactory way in which the prizes were given e more careful when choosing judges in the should From my own experience, I find that a judge who is called upon to act in so many different breeds animals, carely cter gives satisfaction to the out theories-it is their profession-and the knowledge that we gain from their work is valuable. We
should be sorry to dispense with them : they are the men who are helping to improve Cunada as an breeders who have given their life to studying their indirnual stacs and breading ef whose reputation is at stake should they, and any error in this comparison, the professors' work.
when placing ribtons, is open to comment. I, judge. We ask mo favors: we desire fairness for our, work of fitting our stoch, and hope to get for

Lump Jaw


## Our Scottish Letter

The week closing has been an eventiful one amon stallion show at Glasgow, have had the annual trial regarding the ownership of Baroreat legal lyvic 1263 , the most outstanding of the Second
gemeration of living Clyde stallions. having a shipment of some 30 or 40 Clydeodales
to Canada, entering the Dominion minion. The buyers are spread all over the Ilo-
the
the those for the same period of 1909 . the society, little need be said. It is one of
the most prosperous agricultural institutions in (nearly $\$ 25,000$ ), and its council are investing this
month
m 1,000 in Canadian toonds. The President said, at the meeting, that this was an acknowl
cdgment, in a small way, of the indeltedness of cold medals give to the crlydasdale breed. hearty home breeders are very glad to actmowlodge the appointment was copressed, at doing for uspoting, at the tion with respect to the horses, Samadian Henry 1 issocia recognizo the the Canadian Association will
xhibited, but the eagerness of
horses for stud purposes long in advance sec ment. About ninety entire Clydesdalos old excite ior service in 1910, some of them a year were hired more, and already four are under hire for 1911 .
These four are Messrs. Montgomery's Crest and Pride of Illacon, both sons of Batison's
Pride ; Mr. Kilpatrick's biy horso Mr. Taylor's big horse, Sir horse, Dunedin, and that these four horses were characterized by fact been hired by societies which have hitherto have content to take second place, is significant been determination among breeders to get up the weight
and substance of their Clydesdales pion of the show was William Dunlop's two-yamold colt, Dunure Footprint 15203 , a big colt,
which last year pretty well which last year pretty well held his own against atil comers, and, judging by his present form,
likely to do the same in the season which opened. He was bred by his owner, and was got by Baron o Buchlyvie 11263 , out of a a was
prize mare named Dunure Ideal prize mare named Dunure Ideal 21283 , which, as
a three year-old, produced this fine colt. wonderfully well planted at the fround, and makes a noted champion for quality, size and action a year-old, Montrave Viceroy 14278 , a horse with notable pedigree, both his sire and his dam hav-
ing been winners of the Cawdor Cup in the most fashionable lines of Cup. He is bred
His sire was Hiawatha 10067 and hit day. Lis sire was Hiawatha 10067, and his dam brated Baron's Pride 9122 Montrave Viceroy
won the 100 -gs. Brydon (hallage restricted to horses three years old and which is and the reserve for it was Alexander Rennie's bi, rour-year-old black horse, Laird -of Erskine 15276 of these trophies, the Cawdor Cup premium. Both Shield, have a condition attached to them that nation for soundness can compete for them. examifortunately, several of the best horses which pre
sented themselves for this test failed to through, most of them because of a slight rough-
ness in the windpine. It is almost impossible to keep any big, heavy horse quite right in his wind
if he is fed for several years for show if he is fed for several years for show purposes.
Some consider the veterinary test under this head too severe, and certainly the galloping of big tional proceeding. Two wrand big horses in the
show were Mr. Kilnatrick's. a six-year-old son of Baron o' Buchlyvie 13123 a si-year-old son of Baron o' Buchlyvie, and win-
ner of the Brydon Challenge Shield last year. He
was placed first in the open class for matured was placed first in the open class for matured
horses, Mr. Taylor's big horse, Sir Dighton 13760 horses, Mr. Taylor's big horse, Sir Dighton 13760 ,
a five-year-old by Sir Hugo, standing second, and Montrave Viceroy third. The three-year-old, class
was led by John Leckip's was led by John Leckie's Royal Salute 14825, a
son of Hiawatha, and a very bonnie horse at that. Son of Hiawatha, and a very bonnie horse at that.
Unfortunately, he was moving rather wide behind, anf Clydesdale je was moves are unwilling to forgive
that. Mr. Kilpatrick had second with Scott that Mr. Kilpatrick had second with forgive
Again 14840 , Again 14840, a Cumberland-bred horse of Lord
Lothian lineage, and a horse combining great strength and substance, breadth of bone with
quality. He moves well, and there are not many better three-year-olds. The third was Mr. Taywatha, and a true, solid, thick Clydesdale horse, the of breed character, and in some respects the
best horse in the class. His dam, Iecacy 15305 is a daughter of the famous Sir Everard and own Sister to the celebrated champion mare, Lady
Margaret. The two-vear-old class led by Dunure Footprint. Next to him stood the owned by Hastie \& Sons, Fddlewood, Hamilton, The third and fourth were sons of the young cham-
pion, Oyama 13118 ynon, Oyama 13118 . There was a yood show of The leader among the colts was Dunure Amos, a
bay son of Itianatha, owned by Mr. Dumplop. John Way son of Miawatha, owned by Mr. Dumlop. John
Sleigh, Fyvie, did a big feat in the filly clasbes,
winning first for both carlings and two-vear-olds daughters of Baron's Pride and Moira. They are Mr. Sleigh was second for vearling colts with a another day. Jubi-
 of Clowed beneath the bridges since the first show


THE FARMER'S ADVOCATE
MARCH 3, 1910
Buchlyvie, from whom he was bought as
$\qquad$
patrick andioly reported that, after two years, he became
the sole property of his stables at Dunure Mains, Ayr, from Mr
Kilpatrick's stables. Mr. Dunlop maintains that
horse for $£ 1,000$, so that he was then valued a
mr. Kilpatrick savs that
£2,000. Mr. to square up things, it was found that they had
$£ 2,000$ represented his share in the horse, so that
his value was of this misunderstanding, the sale was
lop says it was not so and that he paid for the
horse in two instalments of $£ 250$ and $£ 750$ each
Mr . Kilpatrick admits the receipt of the $£ 250$, but
denies that it was part payment of the horse. It
and he denies altogether the payment
ance of $l$ loose method of doing business involving
sums of money, and other features
decision will be awaited with interest
opener as to the value of a high-class Clydesdal
$\qquad$
$\qquad$
$\qquad$
knowing the A. B. C. of agriculture. In Great
Britain, only two bona-fide tenant-farmers have
been returned: George Lambert, for the South
Bute. Party government,
this country is concerned, i
THE FARM.
Cement-block Walls.
We very often hear that the argument in favor
of solid cement (slop) walls is that it is so much
$\qquad$
and windows, is 1,860 feet above the foundations
$\qquad$
and windows, leaves 1,388 feet, which cost $13 \frac{1}{2} \mathrm{c}$
per foot, which equals $\$ 187.38$, not including the
cost of lime, which was but a trifle. Now, unless
parties building slop walls can get a better rate
quoted to them than the above, there is, I think
no argument for them against good hollow blocks,
which make a drier and warmer wall than any
solid wall, even a thick one. It is also com-
paratively easy to arrange ventilation with hol-
argument in favor of blocks is that the builders
walls it is a comparatively slow job, especially
alone is very important, especially to the women
say I have no interests either one way or the
other, excepting that I am so well pleased with
Middlesex Co., Ont. $\quad$ R. H. HARHIN(:
Plank-frame Plan.
$\qquad$ 8 ft . high, all around. I want to high, the other
the 8 -ft. wall, and 16 ft . on the $4-\mathrm{ft}$. wall, which
will make 20 ft . from ground to plate, with a
pitch roof. Please give drawing of plan made of
plank-frame, also the number of pieces and length
required.
SUBSCRIBFR
In answer to the enquiry for plans of a plank-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Plank Frame-Interior Bent.
$\qquad$ up between the planks of the main beam and enter
the back of the purlin post. No. 10 are struts, tion of the various girths being marked on the
ALF. A. Huntingdon Co., Que.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Plans of Some New and Remodelled Barns.


Ground Floor of R. N. Banting's Barn.
Barn of R.N. Banting. First Floor

We publish below cuts and descriptions of barns
which won prizes in our competition, as well as several others of merit which show the different
styles that find favor with practical farmers in

Old Barns Remodelled.

$\qquad$ there. It enables us to haul to the dields in win.
cer without being troubled with frozen manure.
is there are large doors (10 feet wide), we can
trive through with three horses on the manure drive through with three horsect on the the wanure
spreader. There are two partitions, which separate the horses from the cows, and both from the
fattening cattle. The water is in every compart in every compart. latten
ment.
No Now for the barn proper: Taking down the old barns. We raised them one on each end of the
lasement frame, thus leaving 15 feet between a drice floor. The barn has six feet between for grain, two for has, and two for straw, We use
straw mows, which are planked The stilo is of cement. and cost alout $\$ 200$, way when which are planked over, for a drive
hat hay and grain, which is very this year. We are groing to thefive acres of alfatit the load to get out of doors. After threshing is ack. All the manure from horses, hoces and stable. There are four large ventilator nipes runnime The building consists of two old barns, $40 \times$
eet, and $40 \times 60$ feet, respectively, placed endl Windows are part muslin and part glass. there are as many as could be got in nicely. There light. or closed as the weather dictates, as, also, ard
the ferd chutes. We do not allow the air to 11.
come foul or stufis in the stable.
We believe that pxercise is essential in man or beest, therefore, all our cattle, whether
fat or dairy, and turncd out for a while every fat or dairy, are turned out for a white every foot being under pround and 2 fiet atoove highom from hascment up through the roof to carry off
foul air.
 horses that cannot be conveniently turned out or
The separator room in dairy stable is very andy, separator room in dairy stable is very steet, and 14 in number: Our statle will accommodate 42 hean of cattle the section for young calves. Ttanchions, except
tied or untied with a cincle pow is
Thole row is dumpern, to a 25 -it. swing pole, where it is dumper into the same pile, thus
oughly. It is hauled to the field
Simeon (o

> Loose Feeding Yard Included


spiked，one on top of all the posts，and the other In the middle bents，or trusses，the top beam is of three pieces， $2 \times 6$ ，two side by side，with
blocks between and the the blocks between，and the other on top．The lower
beam is of only two pieces， $2 \times 6$ ． beam is of only two pieces， 2 x
the post，and two in the end of beam．If these are placed judiciously，and aided by a couple 6 －inch spikes，they make a very strong joint
For purline posts，I used two by side，with blocks between，and a $2 \times 6$ spiked on to the back of them
For bracing the sides，I made crosses whereve onvenient，and used $2 \times 4$ lumber．These ush with the outside，the boards were nailedin them all along．This makes very stifi bracing． In the lower part，very little bracing is needed， which are set seven of the small cross－beams These beams are only $2 \times 6$ ，notched into the to of all the stall studding．Only where the stretch a
put a piece of $2 \times 8$ in under them．stalls，have Another brace worthy of note，I think，is the roof brace．These not only keep the rafters be－ help to stiffen the plates against the pressure the mows．
feet deep，like those in the been the bents are 6 made of only $2 \times 4$ ，with an inverted $V$ brace in the middle．Where these meet with the chutes
for feed and foul air，they are bolted to a strong for feed and foul air，they are bolted to a strong
frame of $2 \times 6$ around the chute． $I$ was very much surprised， finish，that．with the nailers on the sides，the strips on the rafters，and the nrovision for a man－ hole on top of the roof，practically no scaffoldin．
was needed．
GORDON L．LAMB was needed．GORDON L．LAMB．

## A Leeds Co．Dairy Barn

 I am sending you the plan of my barn，whichseems to answer the purpose very well as dairy ing is our specialty．The barn is intended to meet the requirements of a 150 －acre farm．It
has a basement wall of stone 9 feet high，with six has a basement wall of stone 9 feet high，with six
windows on one side，and five on the other，with stone shed under the gangway，used for storing manure sleigh or truck．The general room has a water tank，and oat box which is supplied by
automatic feed from the granary above；also provender hin，grindstone，and separator．The cow stable holds 14 cows on one side，and 10
cows and 6 calves on the other side，the cows cows and 6 calves on the other side，the cows
heing watered in the stable．We have a large here
water tank up in the stable．Which have a large
willed by a windmill．Our silo is $14 \times 30$ feet，with roun
roof，covered with folt roofing，which cuts to roof，covered with felt roofing，which cuts to
round roof without any waste．The barn louilt with a without any waste．The barn is door $5 \times 6$ feet，and window over it．The gran－
ary is placed at the back of the floor，so as to ary is placed at the back of the floor，so as to usually accumulates around the front of the ma－ chine when threshing．I might say that som people object to an all－stone stable on account
dampess，but my experience is that if they ar windows，there will be no trouble with dampness
Iceeds Co Ont．
THOS（ KFVMlICF

End－drive Barn

## aurn in your naper set，I have concluded end－drive to send

 Whe a plan．that numerous readers might see the Halton County．There are more end edrives thatthere are of any other style．It is about thirt vears since the first one was huilt，and they ar
considered the most convenient for storing th cron，as，well as for threshing．Th Winter the fen length from 60 to 120 fert，the maiority being
about 100 feet long．Many of them have no horse stable in them，hut are for cattle alone．Th
floor of the barnyard stahle should be about tw teet lower than the cow－stable flow．The rack
across，yard is very handy for feeding in．and
divides the yard in halves，keeping the voune cat Halton Co．．Ont．THOS．CHISHOIM Mrize．not heing，for ansthing that alegible for illustrating a plan popular in the County wher
the competiter lives．－Ed．）

Waterloo Co．Stable
driving into barn，thereby saving a lot of time， in the neighborhood，The stable is the lightest eoding is done easily by means of the car and onvenient hay and straw chutes．I．WW．SWARTZ．
Waterloo Co．，Ont．

Distrilbution of Forest Seedlings and Nuts for Planting．
Would you give me a list of the trees the Pro－
vincial Government gives free for planting？Which does the best to plant in a wood which is thin in Which is best for a wind－break？
Is man supposed to keep cattle out of wood－ lot ？
Ontario．
The Forestry Department at out the following plants for restocking open parts Scotch Pine，or for making forest plantations： and Black Locust．The White Ash，White Elm， pared to send out a lime ned number of nuts of the Shaghark Hickory Black Walnut，Butternut，and side planting Those interested in ornamental or roced． on Farm in wood－lot，should plantations or
 Buildings，Toronto，Ont．Department，Parliem
firculars in regard to Government distribution of forest trees may be procured by applribution
Forestry Department，O．A．C．Guelphing to
ncreasing the Clover Cpop Every farmer knowe Press Bulletin．）CPOp． clover meadow he increases the fertility of ply
field．One of the reasons to field．One of the reasons for this is that clore
contains a large store of the valuable element，nitrogen，and as the clover plertlilizhy in the soil，this nitrogen becomes availablean the use of the succeeding crop．The queation for
turally arises，Why is it that the more nitrogen to the soil that the clovers adid farmer may have noticed，as he turned up The roots of the clover，that there were scattered
along the roots $\stackrel{r}{\text { ro }}$ he rootlets，little whitish mo


Typical Clover Root
Note the nodules or tiny sacs containing the desirable bacteria． tio nodules in twos．with ve seen nite，he woull the side was pinkish－white
and if he had a phemend
ful microscope at hand he would find，on amining this，on pikg
white substance，then it was largely a mass
of very tiny rods，some
straight，some straight，some curved
a d some T or y
shaped．These rods
are bacteria．Theed bacteria get into the fine roots when the sead
germinates，grow and
multiply there as the multinates，therow as the
clover plants grow，and as they grow they，dray upon the nitrogen of
the air in the soil，and store this nitrogen up
in the clover plant in the clover plant．
Hence，the clover plant， and to store up mony nitrogen than it meads
and which it can sup ply to succeeding crops Without the bacteria
the clover plant must get all its nitroge
rom the soil，instad
of getting much of it from the air，and hence when the clover is plom ed under，there is plo actual increase in the
ertility of the soil．
$\qquad$ here are plenty of
are present in the
aoteria pas shown by the

落官


syrup
syrup
oid
erate
sale

[^0]$\qquad$
$\qquad$ Clover is sown on a field that has not previousfy his tree，owing to a diseace which has threatened Fach year since 1905 the Bacteriological Labo and it hoped that by next Curlph，has sent out such cultures to all farmers
 Norway spruce，Whath is probahly the thest heder ally．buil
$\qquad$
$\qquad$
march 3, 1911
these nitrogen-gathering bacteria during the com-
ins sprig for the inoculation of the following
seeds Alfalfa, red or manmoth clover, alsike
 beans, sweet peas. The cultures are sent by mail,
diferent cunt inut
dith full instructions for their use. There is only Wit iue package prepared, that being sufficient to
onesiza sixty pounds of seed. There is a nomi-
inoclate inoculate sixty pounds of seed. There is a nomi-
nol charge of 25 cents for each package of culture nal charge of of cents rot each packege on culure
to cover cost of preparation and potage. Farmers intending to secure these bacterial cultures
would do well to send in their application enrly would do well way be sure of getting the curture
so that they may
Cin ample time for seeding. Applications should Cample time ard and amont of seed to to tre trated,
and should be addressed with enclosed postal note, and should be addressed with enclosed postal not
stamps or money order, to PROF F. FinWARDS,
ontario Agricultural college, (iuelph, Canada

Inexpensive Sypup-making Outfit
The cut of the cement arch for boiling sap, sent you by Peter Hughes, Oxford Co., some time ago,
is very much like ours. I had some notion about is very yuch irke ours. I had some notion about then, as now, that they were rather expensive.
Some three or four bought at that time, and i lost some of wy customers for one year, but they
all came back again. The syrup was a very clear, clean and sweet syrup,
but lacking in flavor A man that was making syrup in the bush adjoining ours took a can of
syrup to the Ingersoll market. While there an
In oid woman came along and asked, "Is there evap-
orated syrup ?'
Thinking there was a chance for a sale he replied, "Yes, Ma'm", She said, ".
don't want it at all." Of course he told the
 givanizeer tenk made, 24 inches square by 20
inchas deeph bottom of that is placed som
eight inches higher than the top of the pan. About inch above the bottom of the tank we
had a half-inch faucet put; joined to that by means of a union is a half-inch pipe, which runs
down to a down to a level with a depression we leit on top
of the arch for that purpose; then the pipe turn of the arch for that purpose; then the pipe turns
with an elbow, and runs through the arch close
up to the pan, and rests in a notch on the south up to the pan, and rests in a notch on the south
side then with a return bend it goes back to the
north side; then with an elbow up a little higher north side; then with an elbow up a little higher
than top of pan; then another return bend to turn
down into the pan, the sap running into the back pan about six inches from the front end. We can
keep that pan boiling all the time. The supply
tank is filled by pail from the store tubs, which tank is filled by pail (from the store tubs, which
are on the north side of sugar-house, entirely out-
side, with onty a good roof over them) through side, with only a good roof over them) through
a small door, the bottom of which is just above
the tank. You can easily regulate the faucet to Tun the quantity desired. And if we want to put
the pipe in when we have a good fire on, we have
it full of sap to prevent any scorching the it full of sap to prevent any scorching., The cost
of our whole outfit was: Grates, 4 ft. long by 3
inches, 10 of them, 530 lhs

 years, but during that time have tried several
other kinds, but always went back to the Eureka.
Having heard that the cirimm spout would run
more sap than any more sap than any other spout, I purchased 25
last spring, and used them in the southwest part
of our bush, where wo had iwne soun-west there were the best twenty-five trees forsidered there
bunch inat one he have. I also got galvanized cov-
ers made ers made for those. I thought I would have one
cornaer that might be called modern; but, say we Were disappointed, for we did not get two-thirds
as much sap from the Grimm spout as we did
from hrough the bush this spring, and if they do not
hany better than last spring, down the old well
hey go, where there is a whole lot of truck now. Can anyone tell me what was wrong?
In conclusion, I might tell you a story, just
illustrato Good syraut. how little some people know about
in a mont a sample of syrup made
ninadern evaporator to a city firm-some of his best. They repliced, saying it looked nice and
tasted sweet, but they thought it was adulterated
a little too much. being a deacon in the church, would not do any
work in the sugar thash on Sunday. I ate in the
season of that samp veason of that same spring he wert to the woods
one Monday, and found the most of the buckets
running tle milky. Her, He returned to the house and told his
wife there was lots sour; guessed he would throw it away. She per-
Suaded him th gather and oit it, and send a
sample of that to the firm. He did so, and thes
wired hach gallons.
Uxiord

THE FARMER'S ADVOCATE

Seed Control Actiand its Amendments.
1st, 1905 . It had a rough passage through Par liament, and would have become ineffective if Par-
of the seedsmen of the Dominion yay. Now that it has been in operation for four care to go back to former dealers in seeds would the leading Toronto foedsmen have spoken very The in favor of it. spread of noxious weed life over the country
thro through the sale of commercial seeds. It was dis since kmown as the efforts of the Seed Division, Agriculture, Ottawa, under Branch, Department of
Commissioner direction of Seed was being offered in the trade some very low
grade seed grade seed, foul with noxious weed seeds. It was felt that seed merchants and seed dealers were
great sinners in this direction, knowingly or unwittingly, and that farmers, too, were in the habit of selling inferior seed to one another. The farmto keep his farm clean, wanted the opportunished buy the very best seed that was going, wand it was desired that the careless farmer, who was in-
different as different as to what he bought, should not have
the opportunity of sowing It was not desired to corrce him to buy a beetter
seed than he seed than he wished, but if he were bound to buy low-grade stuff, he would have, to some extent, law has been quite effective. The demand for he best seed, much of which was formerly shipped


Vanilla 2nd.
Jersey cow. First in Inspection class, London Duiry Show, 1909 .

Irnd
garden and vegetable seeds the spring may be seen the cases standing in the windows and getting the sun's rays day in and day out. This depreciates the
germination value. Again, seeds may be allowed
to get damp to get damp on the floor when it is cleaned,
some of them get wet, which also tality. It is to be hoped that such methods handling seeds will cease.
During the four years and better the Seed
Branch has been trying to secure the co-operation of all concerned in handling seeds, so that their quality will be improved, there has been good progress made. In the main, we believe every vent, as far as possible, the spread of noxious ions where it has beem felt that undue carelesstion in prices paid for with a greater discriminapure, poor seed, growers will be more careful produce their seed on the cleanest chances, a tory to hnow that more of this is being done from
year to year. In spite of this, there is much year to year. In spite of t
dirty seed still being marketed
Most farmers hen they see it This spring those farmens who elves or bought seed, whether grown by them $y$ every seed of buckhorn from his clover by cover ng a few screens of any kind with two ply of
heese-cloth; dampen it with water enough th when the clover containing the buckhorn is sprin lover seed drops off, while the buckhorn and the and must be scraped off. With half a dozen sieves, could be gone through with quite quickly. Rag eed, another hard seed to separate, may be han led quite satisfactorily by using a $1-16$-inch mesh a round one, about 4 inches deep. By shaking way as the ragweed comes to the surface, most o can be separated, whether hulled or unhulled, s the clover seed will pass through the mesh.
t should not be shaken too close, as then some of the ragweed would go through with the It should be remembered that the Seed Branch,
epartment of Agriculture, Ottawa is o test seeds of for rurity, and vitality, prepared harge. Not even a stamp is required to send he seed through the mail. An ounce is plenty,
fo long as it is representative of the bulk lo
ionrity renorts long as it is representative of the bulk
urity reports may be had very expeditiously.

Closing the Markets to Foul Seed Editor "'The Farmer's Advocate":
Correspondence received through your office
leadd mee to advise your readers that several of
the States to the south have, during the last two vears, enacted laws respecting the sale of seeds,
which preclude seed merchants in those States
from quality that is not allowed to be sold for seeding in Canada. Most of the remaining States in
which Canadian clover seeds ure marketed have time, and within two years there will be no mar-
ket for Canadian grass and clover seeds harvested It is because of this polluted with noxious weeds.
the sont athe to use the lower grades of clover seeds grown
in Canada-that many Ontario farmers, who have
taken alsike seed from fiplds bladder campion or false flax are in plenty, or red
clover from land polluted with ribgrass, curled ock, ragweed and thistle, find it difficult to sell
their seed at any price. If the farmers who have such seed for sale will visit and inspect the larger
seed-cleaning warehouses of Toronto or other cen ters, they will find there the best modern cleaning
machinery that is to be had any place in the world, and yet, with this special machinery, t
clover seeds which they raise on dirty land ot be made clean without a heavy loss, not only good seed. This waste amounts in some cases to ought of farmers. The process of cleaning is sor, and the expense for lahor and machinery is
oo great to make the cleaning of dirty clover seds a profitable undertaking to seed merchant
ky far the cheapest and most satisfactory way lean clover seeds is to pull the weeds in the
ields before the crop is cut. A clover-seed crop he pulling of the weeds by hand impracticable hould not be left for seed. In future years farm ers who grow clover seeds on that kind of land
vill not be able to find a market for it.
With With so much of the dirty seed left on the the locality where they live. Farmers shoul
omember the false economy of using unclean seed


Making Fancy Sugar
 than ever before, as some new sugarmakers ari coming in with late appliances, and old ones are
fitting out their places better than ever before
with improved appliances, which are furnished by a few firms in the upper Provinces.
I live in one of the best (if not quite the best) sugarmaking localities in New Brunswick. In fact, some of the sugar made here is the best-flavored,
brightest, finest in grain, and creamiest in an pearance of any I have ever seen. I run two sugar places, tapping 1,000 trees on one place and
800 on the other. 800 on the other. Last year we made 120 cans
syrup (one gallon, wine measure). and 1150 pounds of sugar on both places, most of which we sold at 14 c . to 16 c . per pound. The syrup
sold for $\$ 1.15$ per can the first of the season. later $\$ 1.10$, and some $\$ 1.05$, averaging about $\$ 1.11$ per can. We supplied about one-half of
ers. and marketed the rest in
cost an average of 1 fc . per pound to marketo t 1 have stated, we operate two places in the pro duction of our maple sweets. I will give you an
estimate of what it cost to fit out one of then estimate of what it cost to fit out one of them,
on which we hang 1,000 sap buckets. The trees stand on quite a smooth plat of land, of about
15 or 20 acres, with slight slope toward the north-east. They are on a mountain soil, lime-
stone variety. The trees tapped are 10 to 40 inches at the butt, mostly short, with bushy
tops. The cost of 1,000 buckets, mostly tin some tin plate, was $\$ 130.00$; evaporators, $3 \times 1 \mathrm{l}$
ft., $\$ 100.00$; sugar-house, $\$ 100.00$; sled gatherin spouts, $\$ 25.00 \quad 1 \mathrm{am}$ not taking , value of into consideration, and there are some other li
tle expenses, amounting to about $\$ 5.00$. sar we get 60 syrup cans, at 11 c . each. We get
up, saw, split and pile under cover the first of
tha winter 8 cords of wood, which usually dons to make 600 lbs.s.suar and 60 cans usually dons
nian and miyself usually operate the place, besides 15 of them cows in milk. It usually takes 2.5
days from the time we commence tapping until wo
gather the last sap to gather up the sap buckets and tidy things up
about the camp. This will convey an idea of
about what it costs to oprat the ane
the other place costs to operate the place, while in proportion.
I will give a few points as to me methods and mays of making sugar. To the looker-on sugar
 as is needed in any other art or trade, and just
as close attention to details and thoroughness in
business to make it other calling. Every man who makes sugar is not a good sugarmaker. I know some parties and they turn out a yellow, sandy, il oarse-graimed
product scorched in taste, not like good, pury
sugar should have. However, I have some neich bors who turn out maple sugar wave some neigh-
resembles in appearance whippea cream, beinesh and not too soft, neither is it too hard, it just delicious flavor. We think that is a about what it. Now, as to our way of making sugar
consider tapping a very important finture at the right time and in the right place.
never think it advisable to tap at the firs pearance of sap weather, as there is first ap ap-
cold spell follows the first as an small Check the fresh taps and cause it not to run as
freely as it should when the right season comes:
also, the buckets are liablo to


GARDEN ORCHARD.
Other Insects, also Fungi, Attacking Apple
the leaf blister-mite
The Leaf Blister-mite is one of the latest pests to attack the apple and pear. Five years ago
very few fruit-growers had heard of it; to-day, its work in many an orchard has demanded their leaves, the fruit being only to a very slight exleaves, the fruit being only to a very slight ex-
tent attacked. On the leaves, as shown by the
figure, it causes littue swellings an figure, it causes little swellings on the under sur-
face, at first light-colored, but later in the seaface, at first light-colored, but later in the sea
son turning reddish-brown on the apple, and alson turning redish-brown on the apple, and al
most black on the pear. The writer has never
heard of it causing the death of any tree, but it heard of it causing the death of any tree, but
is clear that where the foliage is badly attacke ened, and its profitableness greatly impaired Life-History-The mites are very tiny crea-
tures, too smail to be seen distinctly by the naked解 tiny leaflets are expanding, they come forth, and each female makes a tiny hole through the under inside. Here she lays her eggs, When these hatch, the young mites, by feeding and tunnelling, enlarge the blisters. On becoming full-grown,
they emerge from these and seek fresh places on they emerge from these and seek fresh places on
the same or other leaves to make blisters and lay eggs. There are several broods in a season, and on badly-infested trees almost every leaf will be
covered with blisters by autumn. Means of Control. - Fortunatel easily controlled, and requires only the same treatment as suffices for the San Jose and Oyste shell scales, viz., one thorough application of lime-
sulphur, either home-boiled or commercial, applied sust before or as the buds are bursting. As the mites at this time are under the bud scales, special
care should be taken to spray the twigs thoroughly care should be taken to spray the twigs thoroughly
OTHER INSECTS, USUALLY OF LESS IMPOR
 mackes crescent-shaped cuts in apples soon after
they are set, causing many to fall, and deforming those holes, one-quarter inch in diameter eating and beneath the skin of upples in autumn. For further particulars and treatment, see, under "In-
sects Attacking the Plum and Cherry," in sects Attacking the Plum and Cherry," in a late
article. 2. Bud Moth.-Tiny reddish caterpillars, wi
black heads ; attack the buds when ready black heads; attack the buds when ready
burst; later fasten two or three leaves toget for a hiding-place. Spray with arsenate of
2 pounds to 40 gallons water, just as buds about to burst, and again shortly beiore the blose
soms open. if not very abundant, the later soms open. If not very abundant, the 1
spray will keep them fairly well under control. 3. Cigar and Pistol Case-bearers.-Tiny cater
pillars, always protected by a little case, one looking like a cigar, the other like a pistol, attack
the foliage about the time the buds bunst. Usually, one spraying with arsenate of lead (2 pounds
to 40 gallons water) shortly before the blossoms burst, is sufficient.
4. Cankerworms.-Stender, usually dull-green 4. Cankerworms.-Slender, usually dull-green
caterpillars that loop the body when moving at
tack the foliage as soon as the buds burst. Spray with arsenate of lead ( 3 pounds to 40 gallons
water) just after the buds burst water) just after the buds burst, and again before
blossoms burst ; cultivate well up to July to de stroy the pupe in the soil; usually troublesome
only in neglected orchards. only in meglected orchards.
5 Railroad Worm or Applo Maggot.-Tiny White maggots that tunnee here and there throug
the apple, leaving brown, discolored areas wher ever they go; fruit is also deformed
siderable extent. Spraying is no use.
fruit as soon as it falls, by hogs or sheep, or
gathering and feeding it. Cultivate orchard quently until middle of June to destroy pupae in
soil. soil. If only two or three trees are attacked.
shake all the fruit off a few weeks before it is ripe,
and feed it at once to hoys or cottle and feed it at once to hogs or cattle.
6 . Buffalo Tree-hopper.-.Small gree lar-shaped insect, about ome-thard inch long, wit
two hornlike projections in front. upper sides of twigs and small branches, causing ugly scars that disfiyure and weaken the branch
Seldom any trouble if orchard is cultivated and kept free from weeds.
7 . Tent Caterpilars, -. Stout, brown caterpil7. Tent Caterpillars,-stout, brown caterpil
lars, with white stripe along the back attack the
ioliage early in the season: live in tent or web when not feeding. Destroy nest when caterpillars while caterpillars are small (arsenat" of lead, in 8.s Round-headed Borer.-A stout, white. cylin Irical grub, about one inch long when full grown
rores in trunks of trees usually just at than ground
ings are seen, use a knife, and cut out and kill FUNGOUS DISEASES OF The Apple
the offender; can be kept ofl by winding paperseveral ply of ordinary newspaper will work all attacking fruit trees are caused by what are called
right-around the trunk, up to about two feet from fungi, it seems necessary to state very base; fasten tightly at top with rather weak what we mean hy a fungus. A fungus is a briefly cord, loosely rest of way, and mound soil up three tiny plant, which, unlike most plants, does very
or four inches at bottom to insure that beetles manufacture its own food, but lives entirely or four inches at bottom to insure that beetles
cannonufacture its own food, but lives entiresy not in to lay eggs anywhere.


 a very it does
great
amount of dam amount of dam-
age. Nearly every fungus, at one ory more stages in its
life, produces
countion dich countess little
spores which spores which correspond
seeds
kinds $\underset{\text { light wh }}{\text { and }}$ can be carrie hy the wind. When
by
these these spores light
on certain kinds
of plants, and get of plants, and ge
sunficient moistur
and heat, the germinate, send-
ing out tiny root-
lets that through the pierce
of the leaf fruit, or through
whatever part of
the plant they can thrive upon. Once
inside the skin, the rootlets branch
and rebranch with
 great rapidity, and so spread the diseased area. In
combating a fungus, the only the part of the plant that it attacks with some substance like Bordeaux mixture or
in which the spores calphur,
few pannot grow. With these sid points in mind, we may now pass to the con-
sideration of the diseases of the apple
 2, is doubtless familiar to everybody. It is our
most common apple disease most every part of Canada. and is found in aliruit. Leaves are also attacked. In dealing spreads in the spring from spores produced by the
dead leaves on the ground, and that these spores begin to germinate about, the that these spore
appear. Infection is the blossoms appear. Infection is rapid from this time until a
week or two after the blossoms have fallon the fruit is set. The blossoms have fallen and
proper times to Means of Control--Spray, first, shortly before the blossoms open, and, second, immediately after
they have fallen, which is the same time as for codling moth. Which is the same time as for
cor the first spraying either Bordeau mixture ( $4,4,40$ ), or commercial limesulphur, about 1 gallon to 30 gallons water, for the second, use Bordeau ( $3,3,40$ ), or commercial
lime-sulphur, 1 gallon to 40 gallons of water. The second spraying does not require so strong mixrequire to spray much more the codling moth, we requre to spray much more heavily than at other lead, should be added to every 40 gallons of the
fungicide Mlack-rot Canker.-In the colder districts of
Ontario, the Black-rot Canker is very abundant, and causer, the fungous disease, ease also attacks the fruit, causing a hard rot, round dead spot., producing on the latter small
quarter inch in diameter leaves and fruit is, however, seldom serious, and
is controlled by the same apple scah. On the same sprays as control the gus gets in through any kind of injury or crack,
wuch as dead areas caused by sunscald or winterkilling. wounds made by implements in cultivating aused by bursting of the climbing, and cracks spring. The canker usually increases its growth branch or trunk, and killed all the part above it. sually, cankers two or three years old are black, heing visithe, in many cases, several rods away Means of Control.-The first step in control is cgin to spread carly infections, is the spores ary to spray every apple tree thoroughly shortly
afore the thuds burst



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360
$$

## Mutual Fire Underwiters Meet.

 Having attended the Canadian seed-growers
meeting at Uttawa, and also having received a
copy of the report, of their fiith annual meeting,
the thought. has occurred copy of the report of their tith annual meeting,
the thought has occurred to me that it would not
be unwise to criticise some of the matters perbe unwise to criticise some of the matters per-
taining to this Association.
The number of memberc The number of members attending the seed-
growers convention of 19100 was, per
forty, and, examining the number forty, and, examining the number that were there,
one would think that it was chielly made up of
diffent one would think that it was chiefly made up of
different gentlemen who were in the employ of the difierent gentlemen who were in the employ of the
Government part of the time, and many more who
are in the employ of the Government all the time. are in the employ of the ciovernment all the time.
The percentage of laymen would be very small. From reading the treasurer's report for 1908 , officers of the Association were paid by the Gov-
ernment. Whilst this is not entirely wrong, it oos not bode well for the future if this should
continue so, as meetings that are being thus held are really allowing an opportunity to the direct for by the Giovernment.
It would scem that a recreation paic an orgarization of this kind if be healthier for
members attendine tegates or members attending the consention were such that
outside oi the secretary, they would pay all. at least most of, their expenses themstlves
would wonder very much how many would in such a case, as, indeed, some of whe metmber
came fron. very long distuncuc came fron. very long distances, their expense
must have been fairly high, which leads one t,
believe the believe that the item of travelling expenses would
run into quite considerable money. In the President, the Assocration has a splumendeavor was to ctherealve some of the special
Government emplovees, rathor than of he five portunity to the general rer than to give an of 3. The assur. wat. Offer a candid expression of their views.
Whilst this is
rogarding having no artificial light mercat engine
or tank, no gasoline storect in buiding different gentlemen that are lieing whll paid under
the Government forget the layman, who really has to boyar not largest share of the expense in a general way
and who has the least opportunity to give his
views. fr. Robertson is really thi the right phace for the purpose of raising some of ard, and think that this part of the consentiondably carried out h, him.
One would wonder how such a convention would would have to pay their own expenses, and who
there to attend such a
 hear in order to realize the position of the Cat
 The fature. The oportunities are great. and make their own observations should attend. annual report which is rooten oul apperiat
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Lots of Cash for Cornell

Recognition Exercises

Wisconsin Encourages the Boys

$\qquad$the stan"
and



## THE FARMER'久 ADVOCATE.

Mrs. Flla Flagg Young, Superin- be more planted than it is, as it has (often confused with Bergamot, the
tendent of the Chicago school syetem,

 her dearee of Ph. D. from the Uni- autumn seasond of early winter lengthens
versity of Chicago. She has ben a versity of Chicago. She has been a In regard to our herbaceous plants:
teacher since 1862 .
In Japan, as stated by Baron Ki-
kuchi, formerly Minister or In Japan, as stated by Baron K1-
koch, formerly Minister of Education
for the little Oriental king Tor the little Oriental kingdom, regu-
Iar lessons are given in the schools on such subjects as morals, cleanli
ness, honesty,
regularity, frugality charity, gratitude, friendship, seli Mr. . A. . J. Roberts, Australia,
apply ing apppying the gyroscope to the aero
plane, to induce the necessary
ba ance. TTe first gyno necessarsy raily bal
America is in mow being built by the in America is now being built by the C
P. R., to circle Okanagan Lake, B. C.

Best Native Plants for Cultivation
 cultivated fields in Castern Ontario at the Central Fxperimental Farm If we take out the Goldenrods and Ottawa. He is one of our Canadian Asters, there are few prominent plants authorities on plant-life, and his the Canada Thistle; that, surely, is themselves to all who are interested common enough !' That, the Canada is themselves to all who are interested
in gardens and in our native flora. thistle is a European plant, and we should protest against its being called practically all our bad weeds are Euron beams! hute candle throws it so few attractive Canadian whild-
flowers are found alone
for Cultivation", is the title of a
very interesting and suggestive article very interesting and suggestive article
by Prof. W. T. Macoun, which first appeared in The Ottawa Naturalist,
and has been subsequently reprinted and has been subsequently reprinted
in pamphlet form. . ${ }^{\text {Pamphet }}$ There are in canada about 4,000
species of flowering plants and species of flowering plants, and 76
species of ferns," begins the Professor, and then he proceeds to give
very good reasons why a selection should be made from these when providing for home decoration, instead
of sending away so continually, as is of sending away so continually, as is
ordinarily done, for plants utterls foreign to our climate, and so harder
to rear, and less likely to to rear, and less likely to look
home," than our native species.
" "There is no difference among lovbeauty of the Canadian, flora. The great variety, the charming forms,
the lovely colors, and the blending of the whole when under natural con-
ditions, give us innumerable and varied pictures of which we may well
feel proud. There is a growing sen-
timent in Conde in timent in Canada in favor of Cana-
dian things. We are hecoming more dian things. We are becoming more
proud of our country every year. We
are looking for an individuality are looking for an individuality
which will stand for Canada, and one
of the hest of the best ways we can impress our
individuality.. is to make Canadian
trees trees, shrubs and herbaccous plant.
a prominent feature of our pland scape," Amone native trees her hand Hard Maple, the American Elm, the Red Oak, the Silver and Red Maples (for Yellow Bircl, (he Bansswood Birch, Mount Ash, White Ashnoe Mirch, Mountair
Haw, Honey Lockil and
Cominh
favors
cannot be own. .o.ed The he stcononel Pine is a fine tro.e. inut it also Austrat
stifler outline than our Red pind


Canoe Birch
Hope's Quiet Hour
Some Questions Facing
Our Rural Population.

THE FARMER'S ADVOCATE.
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The Ingle Nook


The American Elm. $\qquad$
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$$
\begin{aligned}
& \text { schools, there was a large box stove, a year ago since that sulject came up } \\
& \text { with a firly flower Queries-Nut Cake. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and the toaster wa securely fastened to } \\
& \text { this, then it was taken to school, where }
\end{aligned}
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\begin{aligned}
& \text { Old Tapestry Carpet. }
\end{aligned}
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$$
\begin{aligned}
& \text { AUNT MARJORIE. } \\
& \text { Wellington Co., Ont. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A Letter from Quebec. }
\end{aligned} \begin{aligned}
& \text { give the directions how to propare a } \\
& \text { tapestry carpet, to make into a linoleum, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A Letter from Quebec. }
\end{aligned}
$$




Some Egg Dishes.

Ked Evgs with Tomato Sauce.-Make



Cruamed Egks.-2 tablespoons butter, 2

Then cold, remove sholls, not out each
nd, when butter in a small, trying pan,
untily conk the onion in
unt a lizht yellow ture. Remove


march s, 1910
The "Farmer's Advocate Fashions.

thent mar manton 6243 Tuck Shirred Blouse.
6509 Skirt with Pointed Tunic
Dress with new tumic skirt; to be made
of charmeuse, with embroidered banding;
yoke of tucked net. Mayy also be made
of cashmere, voile. marquisette, crepe de
chine, silk, etc... Shirring may be used
instead of tucked net for yoke.

THE FARMER'S ADVOCA'TE


Coat for spring and summer. Made of
broadcloth, trimmed with soutache braid broadcloth.
and silk.

Above patterns cost ten cents per num-
ber. Give bust meansure for waist and
cont coat, waist measure for skirt. Address: Fashion Dept., "The Farmer's Advocate,"
London, Ont.

## Now.

n I was in yon town, and had Stones all around me, hard and cold,
My flesh was firm, my sight was keen, And still I felt my heart grow old. By now, with this green world around,
By my great love for it! I swear, Though my tlesh shrink, and my sight My heart will not grow old with care. When I do hear these joyful lifds,
I cannot sit with my heart dumb ; 1 cannot walk among these flowerg,
But I must help the bees to hum. My heart has echoes for all things, The wind, the rain, the bird and bee
Tis I that-now-can carry Time,
Who in that town must carry me. Who in that town must carry $m$ I see not now the great coke fire With ten men seated there, or more,
1.ike frogs on logs, and one man fall I see instead the flowers and clouds, I hear the rills, the birds and boes:
The squirrel fies before the storm The squirrel nies belore the storm
He makes himself in leafy trees.
-Willam H. Davies.


TRIE \&TTVDS NCOMDRNT


TORONTO
CANADA

## (E) This Catalogue

Now Ready for Mailing
Though Easter comes very early this year, it was decided not to publish this Catalogue until we could illustrate the
Authentic Spring Styles.
We might have guessed at styles, made our Catalogue look just as attractive, and brought it out a month earlier; but we would not have been keeping faith with the thousands of customers who rely on us for authentic information. You will find the latest and best ideas in every garment pictured here, besides hundreds of novelties which our buyers, just returned from Europe, brought with them. A comparison of our prices with those found in any other catalogue will prove to you that it costs no more to be "in style," nor to supply yourself with this season's novelties, which are not obtainable at the shop near by. Your address on a post card will bring you this Catalogue free of charge.
$\underset{\text { Rubret }}{\text { The }}$ SIMPSON
TORONTO





MARCH 3,1910

| $\substack{\text { GRAND TRI } \\ \text { RIIWA SYSTEM } \\ \text { SETTLERS' } \\ \text { (ONEWAY) } \\ \text { EXCURSIONS } \\ \hline}$ |
| :---: |

Western Canada

MARCH 8th, $15 \mathrm{th}, 22 \mathrm{nd}$ and 29 th
APRIL 5 th and 12 th




| POULTRYY |
| :--- | :--- |
| COGGS OS |



Buffalo.

British Cattle Markets

GossIP

## Wear Ruthstein's STEELSHOES

| (our | Absolute Protection Against Colds, Rheumatism, Stiffness, Discomfort No More Blistered, Aching Feet |
| :---: | :---: |
|  | GOOD-BYE to CORNS and BunIONS! |
|  | Off With the Old, Rough, Wrinkled Leathers! On With the Comfortable STEEL SHOES! |
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|  |  |

How Our 1910 Model Steel Shoes Are Made. The Wonderful Steel Bottoms


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## A Talk On

 Telephones!Victor Herber works and plays for the

Victor Herbert has written some of the most popular music produced by an American composer. The Edison Phonograph makes the best Vi ailable for yous trained one of the best orchestras in this country. Its music is reproduced upon Edison Records. Edison to the National Phono graph Company.
other sound reproduc ing machine has the ing machine has th Phonograph

This is just one of the many make the Phonograph is doing perfect music reproducing machine in the world. You can enjoy it at an expense so small that you cannot afford long to hesitate. Hear the
Edison Phonograph today. Hear Edison Phonograph today. Hear play Victor Herbert's music, and play yictor Herbert's music, and said "II want to see an Edison Phonograph in every home."
 dison Amberol Records
Edison Grand ODera Records $\begin{gathered}\text { (twice as long) }\end{gathered} \quad \therefore \quad{ }_{850}^{65}$
Thero are Edison dealers everywhere
Go to the nearest and hear the Edis.
Phonograph play both Edison Standard and Phonograph play both Edison Standard and
Amberol Records. Get complete catalog
from

NATIONAL PHONOGRAPH CO.


CIVIL SERVICE


$\underset{\text { Canadian Correspondence }}{\substack{\text { Collegege } \\ \text { Limited }}}$

| ato men | CIVIL SERVICE |
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|  | тorowto, Can. |

BOOK REVIEW. The fact that ayriculture is coming to
Wane a literature of its own, for the dealing. withe it its vast range and executiont,
and practice, is altogether of principheg Practice, is altogether hop principles
means that farming is taking its rightyon
Hace in the csitimution
oly refused to yung the Bell monop
Telephone service. and the farmer witituled his ef-
forts to furnish himself with this utility
The monopoly sparedf no enfirt to dity.
courage the building of rural lines, and
placed every obstang in tural way of those
farmers who were progressive enough to
As a result of the educational policy
nstituted bs Independent Tellephone men
instituted by Independent Telephone men
and manuafaturers in opposition to the
"Bell" monopoly, it is io now possible tor
every farming con
monopoly, it is now possible for
every farming community to own and
operate a telephone service at a minimum

mating to that of population approx:








System Att, 1008 .



If you are interested, write to the
SECRETARY-TREASURER
Francis Dagger,

PRIME SEED CORN FOR SALE
 For Sale: A PURE ST. LAMBERT BULL


Make this 60-Day Test of Branford Roofing-then Test Any Other Make


<br>





QUESTIONS AND ANS
Miscellaneous. ANNUAL AND PERMANENT Have about two acres of a pasture 10 in sod at present cire
run out for pasture; have been using run out for pasture,
also tor feeding turnips on, etc... for four
and
ans be in good condition years, so it must
being ide me the most pasture for
to give
coming season and seed dit down also. coming season and seed it an on also.
use it tor night pasture, aud pigs, as

 penashly tequrater or pasture. Howeve

 diver, 7 pounds per acre. This crop
sown in spring, is supposed to be read
does


 sike, and even a ate alfalfa Might
added to the above mixture For our
 permanent-pasture mixture so often re
emended through these columns. AGE TO BREED HEIFERS -DIS
POSING OF OLD COWS. Being a subscriber of your paper for
foe years with entire satisfaction, an having had all questions asked answered

with good results, I am going to ask | ten more. in |
| :---: |
| t. What is |
| Mrs. Russell Sage's proper | ad What is Mrs. Russell Sage's proper

adores
What is the correct age to breed helen?
heres it stunt a heifer's grow h
breed her from one year to eight
 she passes fifteen years, and what is th
proper age to do away with dairy cows Ans- 1 . We inter this information
desired in order that a request for a con
der tribution to some charitable or beneficent
pups may be be dressed to her, and
would recommend that wild recommend that postage be saved
the secreatiris of millionaire giver
accustomed e accustomed. we presume. to pigeon
and or discard such Letters, many thou
 Wise its ingle a community cont sing assistance from persons on who
has no
and
ans assilile claim ? mend 3 . It depends on her develop.
gent and the the purse for which she
kent




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## They Pass the British Government's Acid Test for Galvanizing

Do you know that PRESTON Safe-
Lock Shingles are the ONLY kind you $\quad$ TEE ACID TEST $\begin{gathered}\text { This Acid Test is more severe on the } \\ \text { galvanizing than twenty years or Can }\end{gathered}$ can buy that are made according to Brit- $\quad \begin{aligned} & \text { The galvanizing must be adan weather. You see. set steel gal } \\ & \text { able to stand the test of dip- vanized according to British Government }\end{aligned}$ ish Government Specifications for Galvan-
ized Sheet Metal? $\quad \begin{aligned} & \text { able to stand the test of dip- } \\ & \text { of ing the sheet into a solution }\end{aligned} \begin{aligned} & \text { vanized according to British Government }\end{aligned}$ The British Government is the most
particular buyer in the world. The sheet $\quad \begin{aligned} & \text { of sulphate of copper at a } \\ & \text { temperature of } 60 \text { degrees }\end{aligned} \begin{aligned} & \text { TON Shingles are good for twice } \\ & \text { vice ordinary galvanized shingle }\end{aligned}$ metal it buys for public works must be
made and galvanized far better than or- $\quad \begin{aligned} & \text { Fahrenheit, allowing it too } \begin{array}{l}\text { The construction of PRESTON Safe } \\ \text { remain in the }\end{array} \text { Lock Shingles is far ahead of all others }\end{aligned}$ dinars sheet metal. $\begin{aligned} & \text { remain in the solution } \\ & \text { for the space of one other shingles merely slip or slide } \\ & \text { mi der }\end{aligned}$ Each sheet must be carefully sheared to exact dimensions, thoroughly cleaned,
and afterwards galvanized with best less than 98 per cent. pure zinc-Extrat from British Government Specifications. size of a PRESTON Shingle before it is
galvanized with 98 per cent pure zinc In this way with even the edges are thoroughly Thesheets coated with zinc t be heavily and in from $B$. Form Ordinary galvanized sheets are not nearly so heavily coated with zinc as
hose galvanized according to British
governed Government Specifications. To secure a
hin coating the spelter is heated to a
very high temperature. When the steel very high temperature. When the steel
sheets are dipped into it only a small portion adheres to the surface.
Your eye cannot tell a thinly coated
sheet from one heavily coated sheet from one heavily coated. That is
why there are such a lot of cheap steel
sheets on the market. They are considered good enough for ordinary shingles
But they couldn't pass the rigid specifica ins required of the s
Cor PRESTON Shingles
The steel sheets for PRESTON Sap ock Shingles are dipped into spelter ked sheets thus become very heavily coated.
And, the coating is made perfectly smooth
$\qquad$ The sheets must stand bending without
racking the galvanizing.- Ex. from $B$ Unless the steel sheets for PRESTON vanized according to British Government
Specifications not only would the galvanzing crack, but the metal also, where
our top lock is folded to produce three
$\qquad$
 ether at the sides and are easily pulled locked together at the sides on the locked together at the sides on the
principle of the "sailor's grip." The it clean. The galvani- principle of the "sailor's grip." The
zing must allow of heavier the strain, the firmer the grip his being done
 The top lock of PRESTON Shingles t:
TWICE as strong as our wonderfully The top of the shingle is where the greatest strain falls. PRESTON Safe-
Lock Shingles have of three thicknesses of sheet steel, so due to shrinking of sheeting or settling No other shingles can have such a top lock, because this feature is patented by
us. The top lock of most shingles Isn't
as strong Lightning causes the lose of thousands of dollars each year to Canadian farmers
With every PRESTON roof you get a FREE Lightning Guarantee which secures You do not get a Free Lightning Guarget shingles safe-locked on all four sides. Nor shingles with the nailing fully pro tected against the weather. Nor shin glee made according to British Govern-
tent Specifications. Nor shingles so easy to lay. We have Just issued a new booklet
"Truth About Roofing." We should charge something for this, as it con tans information of real value to any will send it FREE as a reward to all who cut out, fill in and mail the coupon to us. METAL SHINGLE AND SIDING CO., LIMITED Office, Queen Street Factory.
PRESTON, ONT. PRESTON, ONT. ${ }^{2}$

Name
po. Address
County
Prov

Dort be contented to tet MAKE YOUR

They will earn $3^{1 / 2} \%$ for you in our Savings $\mathrm{De}^{-}$ partment. Their safety is secured by over $\$ 2,000,000$ ore to invest at $4 \%$ bout our Debentures.

SAVINGS


31/2\% Agricultural Savings usual $3 \%$ interest. Make them work harder
\& Loan Co., Io Dundas St., London, Ont.

THE FARMER'S ADVOCATE

| FRUIT <br> GROWERS |
| :---: |
| Do you want other fruit growers to tell you how |
| Nico Soap AND <br> Prepared Bordeaux Mixture |
| helped them to turn insect destruction into profitable production? |
| Bordeaux Mixture is a fun gicide, and Nico Soap is an absolutely sure death to suck ing insects. |
| Information will be sent you if you send your address to |
|  |
| GRAND RALway system $^{\text {TRUNK }}$ |
| $\begin{aligned} & \text { ONE-WAY } \\ & \text { COLONIST RATES } \end{aligned}$ |
|  |
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|  |
| E. DE LA HOOKE, City Pass. Ticket Agent. E. RUSE, Depot Agent. |



[^1]

THE FARNHAM DUST MOTOR
as a man can walk. If your dealer does not keep
BU'G DEATH, send to us, and we will have hipped to your nearest station

BUG DEATH CHEMICAL COMPANY, LIMITED


St. Stephen, New Brunswick.
FARMER'S ADVOCATE.

ARCH 3. 1910


Do You Intend Building à House, Barn, Greenhouse or Silo?

LUMBER (rough or dressed), LA TH SHINGLES,DOORS, SASH,TRIM or anything in woodworl for building con
struction, and we will quote you promptly
John B. Smith \& Sons, TORONTO, ONTARIO

A ciergyman went to
fixed by a dentist. Wh
done, the dentist declined than a nominat fee.
turn for this favor, i
dentist accepting a
disquisitionan's on the Psalms
teat he had inscribed this
Caught Cold
By Working In Water.

## Distressing, Tickling Sensa

 tion In The ThroatMr. Albert MacPhee, Chignecto Mines .S., writes:-"In Oct., 1908, I caugh cold by working in water, and had very bad cough and that distressing ould not asean at nig and my lung were so very sore i had to and my work Our doctor gave me medicine but it did ne no good so I got a bottle of Dr. Wood' Norway Pine Syrup and by the time ad used two bottles I was entirely ured. I am always recommending it to my friends."
Dr. Wood's Norway Pine Syrup combines the potent healing virtues of the orway pine tree with other absorbent, axpectorant and soothing medicines of rcognized worth, and is absolutely harmless, prompt and safe for the cure of Cougha, Colds, Bronchitis, Croup, Sore Throat, Pain or Nghtness in the Chest nd all Throat and Lung Troubles.
Norway Pine Syrup. nsist on - getting what you ask for It ut up in a yellow wrapper three it rees the trado mark and the price 25 Ment.
Manufactured only by The T. Milbur C., Limited, Toronto, Ont

THE FARMER'S ADVOCATE


The PETER HAMILTON CO., Limited, PETERBORO, ONT.

## Tolton Harrow

ALL
STEEL
 UR MOTt'-"Not How Cheap, but How Good TOLTON BROS., LIMITED, GUELPH, ONTARIO.


Our New 25c. Book

## is a most interesting and

 instructive book for dairymen. It tells the truth about the two standard methods of reost unbiased book on separators ever published. gives many pointers worthdollars to you. You can procure one copy of this book if you will fill in, cut us promptly. Extra conies us promptly. Extra copies
are 25 c. Don't miss this new are 25 c . Don't miss this new
book. Send the coupon immediately. Send it by next

## mail.

## Important Facts You Should Know about Cream Separators

There are six important things
cream separator should do in order to cream separator should
be a paying investment.
First: It should get all the cream.
Second: It should get the cream
Second: It should get the cream
perfect condition.
perfoct condition.
Third: It should save you money.
Fourth: It should save you work.
Fifth:
Fourth: It should save you wor
Fifth: It should be durable.
Sixth: It should
Sixth
you.
you.
Unle
one of
really
Unless a cream separator does every
one of these six thinge it
really
one of these six things it is not
really good cream separator. It is a
losing, instead of a paying, investment.
It is not the machine for you.
There are a host of machines that
There are a host of machines that
are claimed to do these six things. But
Empire separators are the Empire separators are the only ones
that are actually doing the whole six.
That's certainly a That's certainly a bold
the truth, nevertheless.
For example, we will show you how
the Frictionless the Frictionless Empire meets these
six requirements. First: The Frictionless Empire
skims to 02 of one per cent. and often less. That means the loss of only one
pound of butter fat in every tive thousand pounds of milk, which is
equal to the loss of one pound of butter in all the milk a cow gives in one
year. The Frictionless Empire gets all year. The
the cream.
Second: The few smooth skimming parts of the Frictionless Empire are as easily and thoroughly washed as a
glass tumbler. This cannot truthfully
be sald of skimming devices win get clogged up and cannot be thoroughly cleaned. Cream in perfect con-
dition-cream without a taint-can only be obtained from a separator that can be thoroughly cleaned.
Third: The Frictionless Empire gets style methods. The more croam saved the more money saved.
Fourth: The Frictionless Empire
does the skimming in a small fraction does the skimming in a small fraction of the time required with old style
methods. It saves many hours of work. It almost runs itself. So nearly frictionless that it will run for
half an hour after you've completed half an hour after you've completed
the skimming unless you use our brake


Fifth: The very best materials that
money can buy are used in the Fricmoney can buy are used in the Fric-
tionless Empire. The working parts
are perfectly turned true as a die. are perfectly turned-true as a die.
They fit together accurately, thus re-
ducing friction and wear close to the ducing friction and wear close to
vanishing point. You can judge th
durability of Empire Separators durability of Empire Separators when
we tell you that the average cost per we tell you that the average cost per
machine has been but thirty cents per year for repairs during ten to fif-
teen years of service years of sorvico prove their worth
Sixth: The Frictionless Empire gets methods. The creare is fream than old
mualltycommands a higher price than gravity No other separators will fulfil all these six requirements. They
cannot do so, because they use the Empire patented devices and mechanism.
These patented features are found
only in the Frictionles only in the Frictionless Empire (cone method) and Empire Disc.
They are both high-grade machines, And in these machines you have your choice of the only actually
standard methods of cream separa-

Whichever machine you choose you are bound to be satisfied, for
every Empire Separator is sold un-
der a hinding der a binding guarantee a guran-
Some day you'll Own an Empire now sooner or later you'll buy an Einpire Separator. An Empire is
the only separator really good the only separator really good
enough for you. An Empire will
make more dollars for youll make more dollars for you, cost less to run, save you more time, than
any other make you can purchase. any other make you can purchase
There is nothing in cream separa lors equal to an Empire, remember

## The EMPIRE Line of Cream Separators

All Sizes of Both Cone and Disc Machines


The Empire Cream Separator Company of Canada, Limited
Kansas City Mo , Dessex Junction, Vt.; Minneapolis, Minn.; Wichita, Kans.;

- Kansas City, Mo.: Des Moines, Iowa; Detroit. Mich.; Mason City, Iowa

TRENCH'S Remedy Epileps Y And Fits
 Thimbcrion in prici





TV Camphor Ice
VASEIIIE
FOR CHAPPED SKII AND LIPS,
COLD SORES, WIWDBURM.
12 Vaseline Remedies in Tubes

Free Vaseline Boal.
OHE8EBROOUOH MFO. co. (Cons'd)
379 Cralg
march 3, 191" QUESTIONS AND ANSWERS Miscellaneous.
DAYLIGHT ON CREAMERY
I see quite a few writing in your paper
and other papers in reference to Essex County as being a hog and corn and
truit county, and not much tor dairying
 of tre idawhacks to dairyinue in this
county is the cost of manutacturing
cheose or butter, on acco number of cows being kept, as the namalers
nave to go farther tore it costs more to gatbeam, there What do they charge per pound of bume. In the Eastern dairies $\ell$ For making and
hauling, do they pay per poun hauling, do they pay per pound of butter-
tat, or per pund of butter produced out
Woutd ot cream?
know, through your your paner kindly ly let me me
knt know. through your paper, the amount
of butter there should be in cream test-
ong 25 and 30 and 35 and 40 tor
 that are claiming to creameries in Essex
hauk butter for 2 cents ans and way they do, suppose your cound. The
3o per cent butter.at tests 30 per cent butter-fat, and they soll best-
teer that cat cents per pound, they pay
 100 pounds cream, and they try to make
you believe they are making for 2 cents per pound, and your butter
for all the butter that is in your cream Now, in a 30 -per-cent. cream, is there not
an overrun of five pounds of butter
nore? Is not the maker more? Is not the maker getting $\$ 1.80$
or more, instead of 60 cents, as he would Stake you believe? BENJAMIN Brown Ans,-The writer of this lettor has, evi-
dently, cut his eye teeth.
His communication bespeaks an intellifent $\begin{gathered}\text { grasp ot } \\ \text { the subject of which he writes. } \\ \text { If there }\end{gathered}$ Were more like him, the creamery It thesores
in Essex and some other counties would be soon placed on a bet counties would
to answer the questions: Theris. Now,
 ing it on the average the overrun
amounts to about onesixth in ordinary creamery practice, varying somewhat, ac-
cording to a variety of conditions. From
 nsually is, made. Where the creamery
man pays on a basis of oso much per
pound of tat and keens tho
 price tor making than appears on the
surface.
For instance, suppose butter is have a hundred a pounds of creappose wo
hirty nor cont testing thirty per cent, tat. The creameryman
would be making five extra pounds of
Hultor nad

 qquivalent to 4.85 cents per pound of
butter mate, or 5.66 cents per pound of

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TRADE TOPIC
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THE FARMER'S ADVOCATE

## RUBEROID ROOFING

Stands On Its Record

It is the only Roofing that has met the test of time.

There are upwards of 300 imitations and substitutes, and they
cost more in the end.

Only One Genuine


It is the only Roofing that is made in impresnated colors Red, Brown and Green.

Before deciding on any Roofing for any purpose

## Get Our Free book

It gives you information you should have about All Roofings Write to-day.

Fac-simile of the "Ruberoid Man" appears on the

The Standard Paint Company of Canada, Limited
Manufacturers,
Canada, Limit
montreal.
tside wrapper, and the word "Ruberoid" is stamped
on the underside of the fabric every few feet.
Dealeps eybeywhre

> RENTIES SEEIS ARE CAREFULIY EROMF HONESTLY TESTED \&HIVE FOOD RESULIS

WMRENNIECO. HMTEDTOPONTO MONTREAL WVNA


WIRE FDNCE at Factory Price
Why don't you buy your fencing same way as United States farmers-direct from factory
at one small proft. I can sell you any kind foncing fict (gates too) you want and save you
at one
 E. L. DYER, Manager Crown Fence \& Supply Co., TORONTO, Canad


## SHORTHORNS BY PUBLIC AUCTION


A. W. SMITH, Maple Lodge P.O., Ont.


The new Ideal Manger, Partition
and Water System have solved the problem. Patented Oct. 26, 1909. and
sold by A. D. Shmitt. No sold by A. D. Schmidt, North Wool-
wich, Ont. An illustration of moulds
will be mailed on application. will be mailed on application. Apply to

## Spoclal Notloo.

 BETTER THAN SPANKING. Spanking does not cure childran of bedwetting. There is a constitutiondil cause for this trouble, Mrs. M. Summers, Box $\mathbf{8 2}_{2}$ Windsor, Ont., will send free to any mother her successful home treatment, with ful
instructions. Send no money but write he instructions. Send no money, but write he way. Don't blame the child, the chances
are it can't help it. This treatment also are it can't help it. This treatment alsc
cures adults and aged people troubled witb urine difficulties by day or night.


ForSale: Imp. Hackney Stallion truman's cadet vol. 2le NO. 8684.

 WANTED! By Dalhousie Arrl. Societ y.
 Shorthorns, Clydesdales and Oxford
 nnection. McFarlame \& Ford Dutton. Ont. horthorns and Oxford Down Sheep
 connection. Duncan Brown. Iona P O. Ont
Holsteins at RIdsedale Farm-Eight bul
calves on hand for sale, up to eigh





SHORTHORNS AT AUCTION
Friday, March 11th, 1910


30 "asian Shorthorns

Royal Fancy ( 93217 ), a noted stock bull. The families repre.

for catalooue and fuller particulars amprose
ED. W. ROBINSON Markham, 0nt.


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oses before purchasing. Farm two
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Ito 5 years of agora, are now in our stables. stallions, from ton in weight. Big, stylish, choke-full of tRashy to over a and faultless movers. Prizewinners among them. The best lot ever
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FOR SALE: SOME NICE YOUR
Abserdeen-Angus Bulls

Aberdeen-Angus Cattle ${ }^{\text {- }}$ - bork all ald ANDREW DINSMORE "Grape Grange" Farm


QUESTIONS AND ANSWERS Veterinary
Congenital incontinence I have a yearling filly that, since birth,
 very small
full passage Ans. -This is due to a congenital weak-
ness of the muscles of the neck of the
bladder.



## $\qquad$




The Maples Herefords

Pure - bred Hereford Bulls . LINDSAY LIMEHTUSE OUTGO. Balmedie Polled Angus and Oxford Down


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SALEM SHORTHORNS! !ar waw
 TV VALLE HOME SHORTHORNS AND BERKSHPRES


## Meadow Lawn Shorthoms

 gheclans show type it can show some of he *Questions and answer Miscellaneous.

SPRAYING FOR MUSTARD ence to the destruction of wild in reter 1. Is bluestone used with succese whestone to gallon best spray-motor compans of some of the 40 gallons water. This will cover an bloom. Apply when mustard is in fulling to make two applicar
tions. the first may he made tard is coming into bloom, but in that
case, the second spraying must not be come on and seed. other plants will
of coursectual, spraying must be to be each grain crop for many years.
2. You will find this information COTTED FLEECES 1. Is the fleece of a sheep likely to be
cotted for life after being cotted for to cotted for life alter being cotted for too
years? Part of my flock are bad in that respect, and the rest are all right.
2. Are the lambs from a cotted eve likely to become the same a cotted ewe
3. Has grain feeding (seeds 2. Has grain feeding (seeds and oats)
nnything to do with them becoming 4. Is there any preventive or cure, as
I have some good strong ewes I disilike part with until ctipping ewes I dime dilike
when they annoy me. W. J. L. Ans. -1 . Cotted fleeces are believed to
generally due to an unthrity condron the sheep, the animals having
on failing in flesh at some period of the time between shearings. We do not
think it necessarily follows that, befing We do not believe it follows the 3. The feeding of onts or other grain he
3. 3. The feeding of oats or other grain has
probably nothing to do with causing the
trouble. We should say that the lack of
and sufficient nourishment is more likely the 4. The best preventive we know of is
liberal feeding to keep the sheep in ROOFING-EFFECT OF NATURA GAS ON METAL FENC
OR ROOFING. For roofing a barn, would you recom-
mend wood shingles or zinc. roofing?
Natural Natural gas is used here, and is said to to
be very hard on fences, etc., so $I$ am in be very hard on fences, etc., so I am in
doubt as to which will he best to use.
G. R.
Ans.- The analyses of natural gas that
I have been able to find, show nothing fences or roors.
I presume the writer means galvanized iron, rather than "zzinc.". There is no
zinc roofing made in Canada so far as I eve some has bearn, used in the "old
vuntry." Galvanized it ence the fact the outer coating is is zinc panc,
zinc roofing." A galvanizedie calt tit

 cricearth by wires, which go down also a great protection against
$\qquad$
$\qquad$
$\qquad$

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$t$ back if it doesn't do the work. Liboral discount for cash if you preter to The world has no use for a weakling, Men must be strong to-day,
or give way to those who are. There is no compromise. Strength
means success. Weakness spells failure. Which Will you be ?
How strength is lost and how it may be regained; how to increase your earning power; how to be successful in business and popular in
society; how to rid yoursel society; how to rid yoursell of rheumatism, indigestion, leme back, etc. pleasure; all this and much more is told and pictured in a neat little
book which I am distributing free for the ask lmg. It is sent closely book which I am distributing free for the ask limg. It is sent closely
nealed, whthout marks, to anyone sending name and addrese Come oxercises or dopeladen drugs use

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ane suricable age. ATong them are high-class herd.beaders. Wo W. G. PETTIT \& SONS, FREEIMAN, ONT.



Maple Leaf Shires, Shor thorns, Hampshire Hogs


QUESTIONS AND ANSWERS Miscellaneous.
IODINE FOR POLYURIA


FEEDING: HOW OFTEN PER
DAY, AND WHAT?

$$
\begin{aligned}
& \text { I have a herd of milking cows and } 20 \\
& \text { fattening steers (two years old), tied in- } \\
& \text { side stable }
\end{aligned}
$$

$$
\begin{aligned}
& \text { side stable, on full feed. Good ensilag. } \\
& \text { corn, wheat and oat straw, timothy hay } \\
& \text { and mixture }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and mixture corn and oat chop; water } \\
& \text { in troughs before cattle. } \\
& \text { Would like suggestion as to the prefer- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Would like suggestion as to the prefor- } \\
& \text { able number of times feeding per day, } \\
& \text { hours between feeds, best order and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { hours between feeds, best order and } \\
& \text { method of feeding in order to best gain } \\
& \text { in flesh and milk production. What I }
\end{aligned}
$$

$$
\begin{aligned}
& \text { mote good digestion and assimilation. } \\
& \text { YOUNG FEEDER. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans.-For feeding all classes of cattle, } \\
& \text { except, possibly, young calves, I am a }
\end{aligned}
$$

 just as $\begin{aligned} & \text { good results as more frequen } \\ & \text { feeding. Feeding twice a day, however }\end{aligned}$
 meal scattered on top after feeding, when
this is this is eaten, say in an hour or less,
feed of long hay. In the afternoon, say
ten hours niter feeding in the morning ten hours after feeding in the morning,
or slightly shorter or longer interval), as may be most convenient, repeat, follow-
ing exactly the same plan. If any straw is to be fed long, feed at night. The best roughage mixture would be
about as follows: Corn silage 100 lbs., oat chaif libs., cut straw 10 lbs . If it is
desired to feed the wheat straw, it will
be fond be found necessary to chaff or cut it,
and mix with silage. Give each animal
whet What it will eat of this mixture uight
and morning, and about three pounds
hay. Give meal as indicated below: hay. Give meal as indicated below:
The wording of the description of the
roughage or coarse feed on hand is not roughage or coarse feed on hand is not
absolutely clear to me. It it just possi-
te that no silage is available, but ble that no silage is available, but that
dry corn fodder is what is meant, in Which case I would strongly advise cut-
ting enough dry corn fodder to last a
week, and mixing cut straw and chaff with, and mixing as cut in atraw and chaff
ortoutle the pro-
ortion mentioned. It would portion mentioned. It would be found
well, also, to add some water, to cause
he whole mass to ferment slightly be whole
teeding
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## Don't Wear A Truss

 Produced an Apotianecerforer Ment 1 Have nen or Children That

Send it On Trial

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bred and hlyh-grade Holotsein oows and young siock
numbering about 35 head



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zows, about 2 month, oldd, for sale cheap. True to


EVRGREEN STOCn ARM offers choice young
Holsteln Bulls. fiom 10 to 11 months, sired
 CALVES $\begin{gathered}\text { Ralse Them Wiltiou, Milk, } \\ \text { Booklet free. The Steel. Brizg } \\ \text { Seed }\end{gathered}$ At a Scotch christening, the godmother
had dilliculty in removing the child's head evp her, asked the father if he could "Hold him!" exclaimed the fat her, ex-
anding his chest. "Hold him " Man,
could fing him. The family lli.u cats plenty of

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QUESTIONS AND ANSWERS
Miscellaneous.
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stone's physician, recommended drink wine, the latter expressed some Kndrew Clark replied: ortor, to which Sir
ometimes help you to whe does or instance, It have often through work;
o manty letters
o answer after dinner and
 pagne really help "does a noint of cham
wenty letters?" you answer the



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 influence to get your husband or roof the house and barn with Sor tha Gakramzed steel Shingles
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 uvery thunderstorm that passes over your place endangers his life damage or destruction to the property. But there would be no ach danger if the farm buildings They pored with oshawashingles. tiey protect any building against iohtning od syster than anySafe Against Fire And, at certain times in the yeur the house you live in and the barn ararby is in danger from firehying sparks from the threshing machine; sparks from the kitchen himney; sparks from passing firesotives; sparks from forest catch five in paps. Farmer's roofs are different from mos and you wives if you do not dread this ever present danger You meed not dread it at all when the building are covered with a seamless steel tireproof Oshawa shingled roof
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## Costs Very Little

this, ask him tosend for the hinstrand about handsomely-illustrated freenstructive and Rooting Right. He will see, when hereads shingled roof is lesic than "in Oshawaear tor a hundred siquare fect of roons suaranteed to satisfy in this eonfing wenty-five years, or he els and sense for for nothing. He will see that it will pay
him well to cover his house and bain with proof, fireproof and lishtnint-proof, windquarter century, und that will proo

Use Your Influence


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DOT stop when you hav Oshawa-shingled your roofs. ards makiner a house mist step or a barn what a hurn should Go on and plate your house in be. and out with steel Cower the curface of your barn with the n a word, "Pedarize every huilding on your farm. This way:

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Finish the interior of every room iteel Ceilings with Pedlar Art These are made in more than two thousand beautiful desirns tho patterns stamped accurately and eeply into the heavy and imerishable metal. They cost less han plaster in the first place; and tey wirl be like new when plaster ceiling or wall is cracked to the danger point which doesn't easily phe in rure. They are asily be painted

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