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No. 924

## Semi-Steel Fire-Pot-Not Gray Iron

A IRE-POT of a furnace should be able to endure tremendous heat, and to repel the attacks of sulphur fumes.

The material commonly used for a fire-pot is gray iron. The Sunshine fire-pot is Semi-Steel.

Now, avoiding technieal terms, gray iron has what may be called "open" pores. Through these "open" pores the destruetive sulphur fumes attack the iron and hasten disintegration.
On the other hand, SemiStepl is a close-grained material, with a smooth-as-glass surface, which seals or closes up the pores. SemiStpel easily repels the attacks life of the Sunshine tire-pot is greatly prolonged.

A Semi-Steel fire-pot weighs 20
per cent. heavier than the same size and pattern in gray iron. It is, herefore, better able to endure tremendous heat.

## Semi-Steel is made by an

 exclusive McClary process. You can only get a Semi-Steel fire-pot with a MeClary furnace. That is one strong rea son why you should have the Sunshine installed in your home.Go to our agent in your loeality and ask him for other reason:
Ask him to tell you about the Nickelled Steel Dome and Radiator, the Three Trian gular Grate Bars, the Correctly Placed Water Pan, the Automatic Gas Damper, the "Rocking Down" System.
Let him tell you how the Sunshine will cut $d o w n$ your tuel bills. Let him install a Sunshine furnace
with a guarantee to hea your house to your entire satisfaction.

If you do not know the address of the Sunshine agent in your locality, send a card or letter to the MeClary Man ufacturing Company at any of the cities mentioned below. By return of mail you will receive an interesting booklet and the name of a competent man, who will be glad to consult with you about the installation of the Sunshine furnace in your home.
 mipou Vancouver, Hamilton, Calgary

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Water Boxes, Concrete Mixers, Etc., Etc.
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MASSEY-HARRIS CREAM SEPARATOR

| Bowl is |
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| separate |
| from the |
| spindle,- |
| makes the |
| bowl easier |
| to handle |
| when washing, |
| and avoids |
| liability ot |
| damage to |
| spindle and |
| gears. |



| A brake <br> is provided <br> which stops <br> the bowl <br> quickly when <br> skimming is <br> completed. <br> Seamless <br> non-splashing <br> supply tank <br> is low down <br> easy to <br> fill. |
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Self-halancing Bowl Runs Without Vibration,

T
he bowl spins like a top on a ball bearing, win harcenead race al the center of
gravity of the bowl finding its own center and uns smoothly and quielly. The freedom from vibra tion not only adds to the durability of the machine but greatly increases its skimming efficiency as well. 4. The skimminy surface is greater than in any othe machine claiming the same capacity, and the milk ; uniformly distributed to the skimming discs by the

IMPROVED SPLII WING,
thus utilizing all the skimming surface, and ensuring CLEAN SKIMMING WITH HOT OR COLD MILK and when running either thin or thick creain

Massey-Harris Co., Limited
TORONTO, MONTREAL, MONCTON, WINNIPEG REGINA, SASKATOON, CALGARY

| The electrically-welded, solid-piece frame gives strength and stiffness to | $\frac{1}{H}$ |
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| erless Farm and |  |
| rnamental Gates | made of heavy steel tubing electrically welded into one solid piece. The Peerless |
| We build Peerless Gates to last a life time-bandy, convenient and attractive They remain staunch and rigid through | Gate, like the Peerless Fence, saves expense because it never needs repairs. mional strength. Write for free book. |
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INVENTIONS




# The Farmer's Xdvocate <br> Persevere and Succeed.' and Home Nragazine 

EDITORIAL


The Clay Belt in Ontario's Northland.

Woken land, is significant evidunce on this score. (tron Cochranc, we believe, the land is more
.en of the Northland is cowered with a light timmer growth, chiefly valuathe for pulpwood, though containing some mate-
rial for lumber, as the mills scattered through the country attust. The trees consist mainly of Callow whitewood). poplar and dead tamarack, the latter having been killed by the savfly years ago, and now constituting the best fuel of the district, and about the only ready fuel for campers. geood deal of the country has been burned over at one time or another, and the present secondgrowth timber is consequently rather small, hough, as a rulc, there is quite a forest ad spruce along the rivers, probably because the land
there is better drained. Qn the fat portions, and cspecially on the muskoge enc where the depth of rotten wood and mose combined with fallen trees, hinders drainage, the land is too cold and wet for vigorous tree growth. Irainage would doubtless improve conditions. kirch is generally found on the fairly well-drained soil. There is said to be little pine, except some fack-pine arcas, any distance beyond the Height of Land. ailroad traverses it to-day, is not particularly nviting. The small wood growth, the whitish oil underneath the mold, the level marshy appeat misgi i ings, while the latitude disturbs the timorous with fears of short and frosty sunmers.
As a matter of fact, the southern part of this country has already pessed the experimental stage, country has atready passed the experimete evtage,
whilo even the more remote portions give evidence of proving quite successful. The clay is not clay as we know it in the south, but crumbles readily ander the influence of moisture, air and sun, pulverizing into a beautiful seed-bed. The writer vicked several of the largest and hardest clods he could find at I.iskeard, and brought them south. Atter being carried in a grip for a week or two
(hey were put outside in a box exposed to weather. A very light shower, not nearly enough cather. A very light shower, not neariy enough crumbled bet ween the fingers like lumps of damp athus. To anyone accustomed to the clay of the south, the behavior of this Northland material is remiarkable, and when mixed with the vegetable mold it makes a beautiful friable productive soil. Splendid crops of farm and garden stuff are produced, the land being especially adapted to peas
und clovers, except that the peas sometimes grow and clovers, except that the peas sometimes grow This assures the future agricultural progress of the district, for land that grows legumes has within it a means of perpetual restoration.
(:ardens worked for twenty years or mora show (lardens worked for twenty years or more show
little or no tentency to bake. As a grass and little or no tondency to bake. As a grass and
hay country it is supurexrellent. Fi. F. Stephen-
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THE FARMER'S ADVOCATE $\begin{aligned} & \text { it is a timber country. He considered the pros- } \\ & \text { pects encouraging. }\end{aligned}$ and Home Magazine.
the leading agricultural journal in the DOMINION.
pects encouraging.
A. J. McDonald, Crown Timber Agent, with headquarters at Cochrane, the junction point of
the T. \& N. O. Ry. with the National Tianscon the T. \& N. O. Ry, with the National Transcon-
tinental, a level-headed Scotch-Canadian, from old Ontario, who has lived in and travelled all over like a book, has every contidence in the future of the clay belt as an agricultural district. He is of the opinion that the clay along the line of the
National Transcontinental is, if anything more National Transcontinental is, if anything, more
friable and easily worked than at. Jiskeard. In himself had a garden at Cochrane last year, where
 the Transcontinental, $27 \frac{1}{2}$ miles east of Cochrane,
the construction camp had a garden last year where they grew all their own vegetables, and hat as tine a bed of asters as any he ever saw in a hothouse. On a point just north of Lake Abitib
was another fine garden, with ;ansies growing out all summer long uncovered until about th. 15 th or 20 th of September. This year he said there had been no frost of any account since the
first of May. As in the southern part of the Province, the snow disappeared in March or the
early part of April, although afterwards the early part of April, although afterwards the
weather, as in the South, was somewhat back extraordinary. It seems to be due to a larg amount of lime in its composition. Even wher it has been packed down by timbering with sledges
a light rain or even a heavy dew will soften it a light rain or ceven a heavy dew will soften it
and cause it to crumble. Ail along the railroad one may see it lying loose and flaky, naturally
pulverized into a beautiful sed-bed pulverized into a beautiful seed-bed.
According to Bureau of Industry returns, the area assessed in the Province of Ontario in 1900 was $24,497,406$ acres, of which $14,132,061$ werr
cleared. Probatly thirteen million acres of land are under cultivation in old Ontario to day. Six
teen to twenty million acres await the plow in this magnificent Northland. The land may be
cleared with comparative ease and a return derived from pulpwood while the clearing proceeds The climate, while severe, is by no means inhos
pitable. Snow is not particularly deep, and winds are said not to be troublesome. To be sure there
is danger of damage by summer frosts, but prob is danger of damage by summer frosts, but prob-
ably not much more so than was the case when old Ontario was settled. The land responds readily to the effects of drainage. and parts which are not otherwise fit for settlement will he eventu-
ally underdrained and tilled at a profit. Coch-
ranc at the junction of the ally underdrained and tiled at a profle aning and
rane, at the junction of the Temiskamithern
Northern Ontario with the National Transconti nental (built by the Dominion Government to b tem), is on or below the forty-ninth parallel of ficial aid, and potatoes thrive well in that region. An oflicial report by Frank Moberley, C.F., pub-
lished by the T. \& N. O. R. Commission, has the lished by the T. \& N. O. R. Commission, has the
following to say on the climate of the Abitibi refollowing to say on the climate of the Abitibi te
gion: The climate during the summer months along
the shores of Lake Abitibi seems to correspond
with that of Prince Edward Island, except in with that of Prince adward Island, except in older. The winters are about the same as Mares The following are the mean temper atures
Abitibi
Apr. May June July. Aug. Sept one
$33.3 \begin{array}{llllllll}47.3 & 57.7 & 64.3 & \text { Aug. } & \text { Sept. } & \text { (ote } \\ 52.8 & 40.7\end{array}$ But as you leave the shores of the lake the temprature is lower: ton miles north along the line
of Transcontinental Railway it is about five deerwes lower, and also to the south as far as Iake, Temiskaming. The climate in fact, is exactly
similar to what it was in the south Dart of the County of Cires some forty years ago. Much othere widonce and testimony could be add
duced. all going to indicate a magnificent future Cor this great belt "hich will some day support
millions of people on the land, and prove a con siderable factor, not only in Canada's developThent, but in meeling the worlds rapidly-in rease Key to Views on Opposite Page.
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$\qquad$ pot. Government grewhhouse in Coreground to sailway, plearint the was for a town sitc, Cochrame Ont i)-A mining camp at Cotalt. IIouse on the hill is the one in which ITr. Ir rummond, the Habi-E-Not a "linind pigg". Sow in Cobalt mining district, Quite a number of pigs are to ho
sien throughout the camp. 1--Bridge across the Mattagami River, showing temporary trestlework. This was the
farthest moint reached by the press excunsionista (a- Tyical street scene in Cobralt taken from The Cohalt-Haileyhury trollev line station (Aicut fourscore school children at Cochrane assembled for inspection by the press ax Central Figure I tupical Xortherner.



THE FARMER'S ADVOCATE
Why We Should Cultivate. Correspondence published on the summer culti vation of growing crops indicates plainly that few,
even among our best-informed farmers, comprehend clearly the real objects of such tillage. These are: First, by deep cultivation, to render the soil more permeable to plant roots, and to compe doep rooting ; second, by preserving a loose mulch
of dry soil to check upward capillary movement moisture, and thus conserve it by protecting rom evaporation ; third, to aerate or ventilut the soil; fourth, to destroy weeds. The latter object should be accomplished incidentally. The purpose of aerating the soil and conserving mois-
ture is to provide conditions favorable to the ture is to providion of plant food. In addition, large quan-plant-foud solutions un to the leaves. Hundreds of tons oi moisture are thus used and evaporated the production of one ton of dry plant tissue. Excessive cultivation may, by causing rapid and com-
plete disintegration of humus, exhaust the soil out of proportion to the net benefit obtained, leaving it in poorer condition to produce subsc bake. Cultivation should lie three or four inches deep at first, decreasing to one or two inches when the corn is in tassel. six or eight stirrings
should usually be given the soil in a cornfield, but Cour or five of these may be advantagenusly and speedily accomplished
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## HORSES

Hunter Breeding and Registration

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sent ove
pounds

## jumping hedgre

ground, up hill
loping pace for
blood is required to give stamina, staving power
and aunbition, without which the hunter would be if this a ser the desired purpo of this treatment for the desired purpost no better than the cab horse. Hence a usual practice in breeding hunters is to cross a stallion. But the results of such matings have not shown that consistency in type can be expected in the offspring. Such a mare is usually
a cross-bred herself, or may have in her the blood a cross-bred herself, or may have in her the huocd
oi several different breeds ; she may foal a huter,
but she is just as apt to foal something else. It is strongly probable that the offspring of such breeding will be a "weed." So hunters usually
are "imisfit" Thoroughbreds, and thus far thi chances of getting enough saddle horses of this type in the ordinary course of breeding for speed
purposes have been long enough to supply purposes have been long enough to supply re
quirements, that and the "misfits" that result from other courses oi breeding.


## New Percheron Secretary

$\qquad$ ica, has resigned the office, and Prof. Wayne Dins-
more, of the Iowa State College, at Ames. Towa more, of the lowa State College, at Ames, Iowa
has been appointed to the oflice. Prof. Iinsmor annources that he will be unable to give his un
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## LIVE STOCK.

Experience with the Yeast Treatment.
quired of authorities who have used it, and
quote from their replies. Professor G. E.
of the Ontario Agricultural College, writes
"We have used the treatment for so years, but have no definite proof of its men Following are some of the most notable cases About iour years ago, twelve cows in
dairy stable, which had given more or
trouble, were divided into throe trouble, were divided into three lots of four coll
each. One lot was given the yeast treatmen each. One lot was given the yeast treatment
and each of the other two lots was treated with
certain proprictary remedy. Of the four a certain proprietary remedy, of the four cows
given the yeast treatment, thrce got in calf, but
of the remaining eight cows, only one got in call in ing treatment.
In our other stable we have also used yeat
in a heifer was bred seventeen tin In one case a helfer was bred seventeen times.
and operated upon several times for the purposic
of "opening her up, without results. Sh. treated with yeast, and held to the eightecnth servicice, producing a healthy calf in due time.
"Another heifer was bred five times withour "Another heifer was bred five times without
retting in calf. At the sixth period of heat was given the yeast treatment, but not bred A
the seventh period of heat she was treated again and bred, and held 10 this service.
." Three other heifers were treated with several times, and failed to breed. One of these
was slaughtered, and the post-mortem showed was slaughtered, and the post-mortem showed
that the entrance to the uterus was completely
closed. The other Closed. The other two were sold ior expor
that no post-mortem examination was made ." These results decidedly favor the yeast treat-
ment, but we have no means of knowing what would have been the result had the yeast treat-
mont not been used. The following three casps will illustrate this point: without result, held to the eighth service.
. .2 . An Angus heifer, bred seven times without result, held to the eighth service.
in A Hereford heifer, bred seven times with. out result, held to the eighth service.
:. None of these heifurs received any treatment whatever, yet they all held to the eighth service. would have got credit from most people. Further,
wore many people would have given these heifers up as
non-breeders before the eighth service was reached. non-breeders before the eighth service was reached.
These cases show how easy it is to draw erroneous conclusions. No doubt, failure to breed may be ectiveness of a given remedy will depend upon its onception overcome the conditions which prevent nat no one remedy could be effective in all cases. certain cases, it is certainly not effective in all. so far as our experience goes, we do not know
Whether the yeast was of service or whether the
ases where it appeared to be hencticial were merecoincidences, and I can see no way of settling
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Western Ranch Industry Languishing
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Holstein-Hereford Cross

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 to the exclusive use of dairy breeds for dairy pur poses.
The Holstein is apparantly the favorite factory cow, therefore in numbers is wuch in advance of
any other breed. The Holstein of the preant day
is a big, rooms, well-built animal, and an carly 0









 InI hawe hadd sewrat stockerss of this croses, and


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Hampshire Down Ram
The Hampshire Sheep.

## back almost to the time of William the Con-

 queror. About this time there existed two breedsof sheep, that thriwed well on the chalk lands of the south downs of Fingland, and from these sheel Sout relown and Hampshire. The former ha: Con, and the Hampshire has proved that whereve
fin bouss he find admicers, whether it is on th.
 procestl with his history, the Hampshire was foun Ator, the. -outhdown, and required to be fed yreat and Berkshire. Thure was at this the heep was dhareed that would thive well on ith the Gouthdown. were fownd to fill the in
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$\qquad$ ets. The Hampshire should have wool some
$\qquad$
THE FARM.
Believes in Large Corn Ears.
 on my former letter, go without a short reply
. The ewes are great milkers, and thus produce not use a planter such as above, but puts his
heavy, early-maturing lambs for the spring mar- corn in with a spud planter, he is certainly be be fibre, coming down to the Shes and on hind legs. Corn planted 3 it. 8 in. each way, which is This. face and ears should be a uniform black. 3,240 hills to the acre, instead of 3,556. But pen feeding, and has stood well to the front in how foolish to speculate on an absolutely uniform at the leading fat-stock shows in Fngland and ever see a field, or cven a hill or a half-dozen bringing higher and the Hampshires are possibly hills, in which the cars were all of uniform size bringing higher prices, and are more sought after, or weight? Did wither of these gentlemen ever
than any other breed at the fresent time. See a field, or even a small patch, in which there get cars of an average weight, of, say, ten ounces,
cxcept by having a large number weighing a pound
or over? You must have the big ears to make p for the nubbins and barren stalks. You can-
ot get the big crop, without big ears, of, say Pound or more Now, a word as to carly maturity. I deny emphatically that the climate in this county is dent varieties, such as are commonly grown here O their fullest development, if planted before the
tirst of Junc.
I planted large White-cap mysely lust year on the 15 th day of June, and there was or soft nubbin in the field. I have planted it an give the name of a farmer within four miles
of Kingsville, Fssex Co. who planted the same ariety on the first day of July, 1889 , and husked
125 bushels of ears of sound corn to the 125 bushels of cars of sound corn to the acre, and Of course, I know it is a more risky business to grow corn in some parts of Kent County. ${ }^{1}$
was up in the north-east part of Kent in 1907, at husking time, and it was surely discouraging to see the havoc that had been wrought by spring frosts after the corn was up. I went to the
Western Fair last fall, and from Thamesvills to about (ilencoe the corn had been frozen and the do not apply to the south and south-western Again, in respect to the theory that mediun or small cars or tips of ears have a tendency to
carlicr maturity than the large ones, I cannot Having been born and reared on the
actively engaged or closely identified farm, and actively engaged or closely identified
with the growing of corn nearly all my life, my xperience entirely disproves this theory. I have in my earlier life, before I came to Essex, husked corn containing a goodly number of immature
cars. The larger ears were invariably the ripest, and the soft corn was almost entirely among the small ears or nubbins. I would suggest that the better way to procure an early-maturing strain of any variety of corn would be to go through the
field when the crop is ripening and choose for Sced those ears which show marked characteristics of early maturity; continue this selection for a term of years, and thus certainly achieve a great-
er success than by an indiscriminate selection of medium-sized ears. Two men take their corn to Guelph. One man has little short cars, six or seven inches in length; en ears, as perfect as you could
wish to see, but about two
inches longer. The man with inches longer. The man with
the small corn gets the first
nrize the oth the small corn gets the hirst
prize, the other one gets the
second. They take the same
corn to Fises and the decisceond. They take the same
corn to Essex and the deci-
sion is reversed, which would sion is reversed, which would
certainly not have been the
case had the second party chanced to have selected ears longer than ten inchas.
The good book says all things and hold fast that
which is which is good. I would sug-
gest that imy critics test this gest that my critics test this
matter of yield and earliness
from large ears versus small cars. If it can be shown by
a series of experiments con-
aucted over a turm of that corn seed selected from l. ngth, will produce an carlier
ind an Whgth, will produce an earlier
and an "cqually or a more pro-
duct iv.. strain froll ine luctive. strain from the same


 adrations, w.e. rulve out. Mow Mr. Abraham of anything. For the ambitious farmer who cuming that a two-pound car was my ideal in in order to competw with his neighbor whose corn and is paner and not so werl tilled, is not encourag-
 mmendable, as drainage

THE FARMER'S ADVOCATE

## If we cannot agree on the other matters di cussed, we certainly can agree to disagree. Fssex Co., Ont.

Cultivation of Corn
Editor " The Farmer's Advocate":
In growing a crop of corn we ins to confor our doings to the furtherance of the demands
plant growth. The conditions of erowth ner liw, light, "armth, air, moisture, plant food and sul inches apart in hills, aiming at ay planting 4 to the hill, which, however, may need six seeds
planted. Our observations are that too many growers of corn do not provide for sullicient sun-
light. in a proper system of farm practice, and if nol supplied will give a humifying condition in th. soil which is quite favorable. The three factor
still left, as well as the humifying of the vege thorough and consistent tillage or surface cultivi tion. The proper cultivation of the corn is th most immediately effective condition the farmel seen considerable ineffective cultivation 1 will not say how often a field of corn should be cultivated, but I have seen men cultivate two
three or more times in succession when ouce was sul ficient, and then neglect cultivation for weeks afte another cultivation should have been given, and thus lose the real benefits that should have come
from judicious cultivation. The benefits depend not so much upon the number given as upon the timeliness of doing th,
work. and for warmth, air, moisture, and he benefits these bring, we aim at never al
lowing a crusted or compacted surface to remain unbroken. The hoe should be usice toarly and close about the plants; later tillage must reced
irom the plant and also become slighty morn
shallow, but rool iudoment is tha only to lay down. We use a two-horse cultivato
while the plants are not too large; if the corn growing fast and succulent it will easily brak oll
xcept during the heat of the dav, wh.n ittle wilty, it will stand more rough usage; but work, until the tassels appear mod the horse is
hid from viow. A two - horse cultivator should go over one and a quarter acres per hour wre of an wore of man and-horse labor to tab ng and all and conditions, but with hand hor he acre will be more than is usually expended on
he corn crop. Il. have neser had a weeder od, usually, with our s.stem of keeping both the much on the surface to drag "ith the tweth of the
erdinar: harrow to do much dragging after the

Corn Cultivation in Essex


## Wireworms and White Grubs

$\qquad$ numerous in Ontario last year, and from enquiries
received at this office this spring it is to be feared
starvation and being twice exposed Where white of the insects will be exterminated co newly-plowed land is strongly advised. Illinois go to show the difliculty of clearing uir
vorms out of the land, and scarcely agren worms out of the land, and scarcely ugree with
Ir. Hewitt's ideas. He found that coating wiol grain with poison. the surface application of sall gran other chemicals, and even the attempt and other chemicals, and even the attempt
starve them out by a clean tallow-a cotil
method at best-were practically uscless. Cul Summer Cultivation of Hoed Crops?

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Some Farm Problems
dumping method
ucts all at once, but do so maring, wor prod
heep the price up. When thimarlany thus 2. The next problem in this locality, and per
haps also in others, is tha rural haps also in others, is the rural thrphone it is
admitted that the telephone, although not a noc iss, Shall it be an independent But the problen is, be the ikell Telephone Company? It was hown that independent companies can be made,
fropositions have their advantagorkholders. and disath "ages, will have to pass it
3. The I abor (question - - mom labor is getting to te very scarce, and many "ould have to do
"ithout help if it were not for the British immi-
srants coming in. The majority of thise are "ithout farm emperience, and it repmires a lot of is one of the problems that was lyft unsettled. $A$.
io the reason why the farm population is going 10 the reason why the farm population is going
"tyward, one momber sid that several larg."
aities had committees whose aim it is to attract young men to their city, in order to swell their
population. Nonother member suggested that edu-
cation was th. cause. But to the writer it seems Io be the lack of the proper education that is mah.
ing many leave the farm. is getting to te quite a serious one in some to
calities. in many cases summer-fallowing has to
be resorted to to somewhat lessen the number
$\qquad$
$\qquad$
$\qquad$ mastery Another serious pest is the white grut,
which is doing much damage. It is thought that
$\qquad$ doing much danare. It in thought that large patches in pastures are entirely destroyed

## THE DAIRY.

Alfalfa for Dairy Cows

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$\qquad$

Prepare for Warm Weather
$\qquad$ With few exceptions, been of fine quality, and, liable to get a little carcluss; then warm weather
sudfenly comes on, difficultios immediately arise and we have some of the old troubles to contend and and berhaps a few new ones. It usually thangud condition. The mink from some to the arrices at the factory overripe and tainted; some of cen, oft-flavored cheese are reported, and we sudmust be met and overcome at once if we are to keep uf, the quality of our cheese during the hot months. Nature does so much for us in cool ing taints, heated cheese, and the forth, preventhardly realize the necessity for greater care during warm weather, until we are trought up short
athe patrons
Build a milk-house, containi

$$
\begin{aligned}
& \text { Build a milk-house, containing a tank prefer- } \\
& \text { ably of cement, in which to cooll the milk, It will }
\end{aligned}
$$

cost very little, and will save much time and

$$
\begin{aligned}
& \text { tank of cold water. As soon as milking is fin- } \\
& \text { ished, put the covers on the cans. Milk does not }
\end{aligned}
$$

every night is the important point. If you can-
not afford a milk house, at least provide a tank

$$
\begin{aligned}
& \text { or tub in which to place the cans, surrounded with } \\
& \text { cold water. If you have ice, use in the water. }
\end{aligned}
$$

if not, change the water a sufficient number of

$$
\begin{aligned}
& \text { imes, to insure proper cooling, Use a thermom- } \\
& \text { tere it costs very little, and will pay. }
\end{aligned}
$$

$$
\begin{align*}
& \text { Mer; it costs very little, and will pay; } \\
& \text { Fncourage your neighor to follow these meth }
\end{align*}
$$


yur milk by neglecting his own.

$$
\begin{aligned}
& \text { imme and ince becoming rusty has lost enough } \\
& \text { dollars through tainted milk to buy many new } \\
& \text { dans No chesemaker can possibly make fine }
\end{aligned}
$$

chesemaker can possibly make fine

## THE FARMER'S ADVOCATE

why attempt to supply milk that has not bern urepared by the author with a thorough realiza- queen-breeder, or good ripe cells of your own reat cheoperly cooled and stored? It means poor tion of the need of more accurate illustrations of Let every pairon do his best pounds of milk. factory a reputation for finest cheese, which can care in the production of the milk. Do not be annoyed, and talk of going to some
other factory, if some morning the cheesemaker reother factory, if some morning the cheesemaker re
turns the milk. He would not do it if he thought
it possibl. to make good cherese from it it possible to make good cheese from it. He must be the Judge of the milk, and, although anxious
to secure all the milk he can get of good quality. to secure all the milk he can get of good quality,
yet, in justice 0 himsclf and to the other pa-
trons, he is obliged to reject sour and tainted trons, he is obliged to reject sour and tainted
milk, He has no drudge against you. Re.
member, it is far better that a few cans of tainted mermber, it is far better that a few cans of tainted
milk should be rejected than that a whole vat of milk should be spoiled. The maker at the othe
factory has no desire to take in sour or tainted own maker telis you is unft for what your
cheese? Instead, fing, of finding fault becound the milh is returned. look for the cause, and re
move it. help the patrons in every way possible, giving sug may. bo met with in handling the milk. Keep, ererything in and about the factory clean
and tidy, then insist on the patron sending sweet
clean nimik in bright cans. If the whey has to be returned, send it home clean and sweet, properly
pasteurized, if possible. 13e firm, but courteous, with the patron.
man who loses his temper is wery likely to things that he will afterwards regrety to Reject
millk that in your fudgment will not make fine cheese. It is your that in wome localities compe
tition is heen, and a few patrons may, when the milk is rejected, talk alrout disposing
in some other way but this does nith the fact that milk is an article of food and cheese or some other dary product. cory Sou are not likely to make any bett
cheese out of it than the maker who first jected it. Co-operate with your neighboring
makers on this pont. makers on this po nt.
I'se the curd test on tainted milk, and applain to the patron what calses the trouble Do you
best to impress on the inind of the patron th
importance of importance of cooling the milh and clean method
in production. have the instructor do so, also. A few words of advice from yourself or the instructor will ofte
save many dollars. It is the business of the structor to improce the quality of the milk, of
the cheese and general dairy conditions. him all sou can Reneral dairy conditions. Hers Look out for the open, weak-bodied cheese. 13 recent this condition.

## APIARY

The Anatomy of the Honeybee. publicat
(13ulleti
embodia
should prove of value as bringinge to beckeeners an liable isformation concerning an invect of such
great economoc importance, and also as furnishang reat economoc importance, and also as furnishang
sound basis in devising new and imponed prac ical manipulations. The subjec
ears the object of study of many vears the object of study of many carmal studemls
put the popular demand for information has al nduced untrained men to write accounts of bow An drawings more artistic that accurat ". hatology under norimal and
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tion of the need of more accurate illustrations of
the organs of the bee, especially of the internal
organs
This bulletin can be secured only from the This bulletin can be secured only from the
Superintendent of Documents, Government Print ing Office, as the Department's supply is by law ing once, as the Department's supply is by law libraries and the collaborators of the Department

System Necessary for Success. g, and proceed as follows: estroy any camme the two combs of brood and quse of the excluder separation from the brod behamber. Do this carefully, so as not to drivi he bees down out of the super. Sou now have brood and young bees which will wot return
the parent-hive, and which will easily the parent-hive, and which will easily accept
strango yueen, and, because of the week's separa stiango queen, and, because of the week selpara
tion fom the wen, there is no open brood t
per ish from neglect. Now set the whole sup, gently off on a bottom board, contract the entran
to about two inches, introduce a queen or cell, an

The New Destructive Insects and Pests Act, 1910.


selects (comprising about 40 per cent. of the
whole), 16 cents for No. 1 grade (comprising about (comprising the remaining ten per cent). A dealer who had refused to entertain an offer of the goods
at this price, when he saw some of it exhibited at at this price, when he saw some of it exhibited at Montreal, declared that if he had known that was the kind of stock offered him. it would not have been a question of price at an it would have (iunn \& Langlois of Montreal, have been buy ing fat hens for the Montreal Hebrew trade, at 14
cents a pound, in Peterborough and other points from farmers. A local buyer has been working in same kind of stock, selling to (iunn \& Langlois at 1t cents, and pocheting the difference as his toll
At the same time, Macdonald College is selling at $\$ 200$ a pair
Th. nearer the farm the cggs are candled, the
better. The time will soon come when farmers better. The time will soon come when farmers
will tor candling their own eggs.
The present svetem of marketing eggs is shamefilly wastoful and untusinesslike. () Wh prices. These senstional, but well-authenticated stateThese sensational
ments. made by reputable men mpeaking from ac-
taal knowledge, are some of the cannon shots
Irom a battery of argument which has aroused

POULTRY
Co-operative Egg Circles Organized in Peterborough County
 the people of Teterborough County, where the
Weliminary organization of five Egg Circles
Wha acomplished last week. The movement is an
witgrouth of the propaganda conducted by Pro? witgrowth of the propaganda conducted by Prof
I. Fiford. Poultry Manager of Macdonald Col
ine Sige, Que.. the Canadian apostle of co-operation happlied to poultry marketing, and father of at important organization known as the Poultry-
oducers' Association of C'anada. The formation producers Association of Canada. The formation
oi these local branch associations in Peterborough,
the first important strictly co-operative egg or the first important strictly co-operative egg or
roultry circles in Canada, was due to the initiapoultry circles in of a level-headed pultry en-
tive and energy of
thusinst named. John I . Hrown, a native of Renthusiast named John 1. Mrown, a native of Renand (funn \& Langlois, Montreal. Mr. Brown is a farmer's son who became interested in poultry, made a success of it, and has had considerable ex-
perience organizing the poultry industry on a perience organizing the poultry industry on a
somewhat different plan in the Ottawa Valley. One somewhat different man in the ottawa alley. One to organize the egg-and-produce business on a satisfactory co opprative basis, his firm may be able to secure a supply of reliable,
choice-quality eggs and other produce to meet the
larce and growing demands of their trade. They hace no desire to ". hog ", the business, and do
have not bind the egg circles to deal with them only,
hut naturally and reasonably expect, by fair treathut naturally and reasonably expect, hy fair treat-
ment. to secure and retain a good share of the patronage from the circles they are directly in-
strumental in organizing. It is hoped that other strumental in organizing. It is hoped that other firms will het Mr. Promote the movement in other
localities. Mrown selected Peterborough
County as a starting point, and enlisted the ready County as a starting point, and enlisted the ready
Co-opration of the Ontario Irepartment of Agricul-
 Chat ot ine assistance of Prof. Elford, had well as H . 13. Cowan, of Peterborough By personal canvass
and meetings, farmers in the vicinity of Peterbormugh have bern interested, and persuaded to
organize. This they have done with considerable organize. This they have done with considerable
onthusiasm. The first of the five clrcles was started in the progressive dairying district of Tentral Smith, where, on the evening of Friday,
Junc 3rd, a rally meeting was held, attended by (ditorias representatives of five leading agricultural papers of Canada, each of whom spoke briefly, olfowing the organizers above mentioned, and a
local man, T. D. Young, president of No. 3 Circle The meeting was presided over by J. A. Mc-
(iregor, of Peterborough, president of Circle No. Cregor, of Peterborough, president of Circle No.

1. The secretary of this Circle is Wm. Scott. It is the intention to continue the work in Peterborough until the county is well organzed, after While starting in a modest way with the egg business, it is explected to branch out later and take
and other lines of produce. The method of or-

$$
\begin{aligned}
& \text { and } \\
& \text { canizat ion and proposed plan of operation are very } \\
& \text { cimple. and it would appear that the scheme is not }
\end{aligned}
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have one general superintendent, to be appointed
by the buyers, and his decision shall, in the quality of the eggs delivered, be considered
final. Anyone may final. Any one may become a member who is in-
terested in the production of poultry products and
will conform to the rules and regulations. Clause we quote in full :

Rules and regulations pertaining to eggs:
(a) Only eggs gathered from regular nests may
(b) Eggs must be delivered at least $t$ wice a
e, except in winter months, when they must be delivered at least once a week,
livered.
Eggs from found nests must not be
d) Real small eggs
(c) Rough-sheiled or ill-shaped eggs may not
delivered
be delivered.
(f) Stale
e eggs may not be delivered
from the flock as soon as the hatching seasoned
over (June 1st). (h) That all eggs produced by said flock shall
be sold through the circle. This applies for one year only.
(i) That a member may deliver eggs from only his or ner own flock
(j) Notwithstanding anything heretoiore set
forth. patrons may keep for their own uce any eggs required, and nust not sell any eggs through
the circle that do not comply with these rules and the circle
regulation:
temperature, as gathered must be kept at an eve and be kept free from draft and dampmess.
and paid for will, upon return of same to proand paid for will, upon return of same to pro-
ducer, be accounted for if possible, and the loss made go
A Central Board is to be organized, consisting of two officers from each circle, provided for in
the constitution. Mr. Duff will, in all probabilty, be secretary of this board. Every egg is to be
stamped on its larger end with the number of the circle and the number of the member supplying it. If anything is found wrong with a single egg, the superintendent will hire a rig, if necessary, at the
buyer's expense, and visit the producer from which buyer's expense, and visjt the producer from which
it came, find out what was the matter, and return the egg, and receive a refund of its price. The
idea is to keep eversthing absolutely straight, and idea is to keep eversthing absolutely straight, and
educate the members in the production and marketing of first-class eggs. The collection of the eggs to the most feasihle plan. The one which appears most plausible is to have the eggs brought regu-
larly to certain points, and have wagons call there for them. The wagons will start in some
districts probably this week or next. The eggs will not he graded to color or size this year.
That will probably come later. The ceggs aro That wn probably come later. The eggs are to be
paid for weekly, as soon as they reach the firm,
with checks pasable at par in Feterborough with checks pavable at par in Peterborough.
Empty cases will be luit orf when full ons ar gathered, and provision is made for collecting
part of a case, as well as full ones. Mr. Brown has been cautious in promixes as to price, but expects the firlu will hamp to do heter than his
promises.
pected to then ainm on

am two or three times in the last ten days the hen is up off the ground. I may say tha I always try to set my hens on the ground s.
that there will be a certain amount of moistur, rom the ground. I have also found that by following this plan I have had no trouble with white diarrhea or bowel trouble in the young 6. As may be inferred from the aboy low the hens to have the chicks, giving each hen
from 15 to 30 according to the time of year think that the chicks do better when with the
hen. I have found that the chicks that have hen. I have found that the chicks that have
been hatched under hens or "finished off" undel hens are healthier than when they come out of the incubator. or course, 1 am not condemninh THE FARM BULLETIN. Improving Country Life.

Life Institute. It was attended by leaders in educational agricultural and religious, atairs in
Ohio and other states. The two dass discussion forussed upon the relation of the country churth
and the country community With ontire unanims $y$ that the country churb should be for the neighborhood in "hich il
stands a "Community "enter," identifying itselt with and seeking in a sympathetic spirit to proyo and economically. The principle of unity ly and economically. The principle of unity or
federation among the churches for practical service was commended, and thir co-operation with
the public school, the Farmers' Institute and
other agencies advised other agencies advised. A policy of rural churin
financial reconstruction was approved, in order that churches and in inisters enjoy living condt ions on a par with the coonomic standards of of a regenerated rural school, in order to higher standard of educational facilitivs hy coll
solidation and scientitic training lesigned to promote the prosperity of the people. Recreation In the interest of moral training and the extenslon of the "play-ground movernent" was wh-
dorsed. The ground was taken that these prim-
ciples and methods are to bien so applied as advance the moral and spiritual internests of the

The Derby Winner
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THE FARMER'S ADVOCATE.
The Farming Faith of Norfolk. demonstrated ideas, one cannot do better than take a jaunt over the country roads and some of
the railway lines that net the County of Norfolk, Wht. Simeoe town is a county seat to be proud
oi, and it is backed by a go-ahead farming coun11) that has faith in itseli, For a neightorhood,
a township, or a county, it is a fine thing when it begins to realize the possession of certain re-
sonrces, to be made more of by judicious labor
and cnthusiasm. such inspiration makes opportunity. Incidentall, it lifts communties oppor-
the narrowing effect of simall talk and gossip by engaging their attention with larger interests and
the cultivation of thoss" coopmerative and friendly
relations that make life worth livine, and farming real success.
Though a county of but moderate size, Norfolk wheat, oats, corn, which in husked product has passed the million-bushel line, with larger pos-
sibilities thead; in horses, for which it is justly tories at simcoe, iselhi and Waterford. Hamilton and Toronto draw ulon Norfolk farms for cream ;
south Middleton and Tillsonturg condensaries abWouth Middleton and Tillsonthurg condensaries ab-
sorl) the product of the cows, in addition to what gows into chense and butter making, and local town But it is in appleorcharding that the county
has. found itself particularly famous, and with a has found itself particularly famous, and with a
climate approximating the adjacent Niagara peninsula, and tempered by Lake Erie, it is not surprising to find preach, plum and pear culture on the increase, with magnificent strawberry patches
spreading out, one on the J. E. Johnson farm, just spreading out, one on the J. E. Johnson farm, just
north east of Simcoe town, covering some 20 lums. fancy apples, as well to peaches, pears, Wher with corn and some field croos for feeding. ter. In his lisiefer pear plantation, he is trying arel barre hoopls and cord the limbs of young trees
that hare a tendency to head too close together. top to think that 300 or 400 farmers in a given district have taken up apple-growing in earnest,
according to modern methods, it means something. Hd orchards are being regenerated, and new planpossibly on lands, in some cases, that will need a holding to the winter varietics. On this point, mwever, their ideas do not quite run parallel with
those oi the head of the Fruit Division, in the Defartment of Agriculture, at Ottawa. Time will in Norfolk we have the idea again exemplified ing. an. more than a crop of corn or wheat. So
the soil is tilled and fertilized with manure and wout th. same plan as'. The Farmer's Advocate". demonstration orchard at lambeth, in Middlesex It is a revelation to go into a t(1)-acre block of apple trees, mostly. Pies, Baldwins and Green-
nes. like the orchard recently acquired wo Mr. Johnsom, a couple of miles south-west of Simcoe,
and soe not a stray sucker nor useless limb nor anker spot that had not been scraped out with ther tools, as clean and mellow as a garrow and and the trees themselves a perfiect pharadise of bloom,
awaiting the third s.raving. When, like a spring
tnowstomm. the tossoms had fallen
spason about $\$ 5,000$ over al
ing is going ahead as with
IWe have Jas. Johnson hat
 an alert local journalist, and thmes romarked In many ways the Local Remulaty Provincial Department of Agriculture, and twach
of the High school
 a third-vear (1). A. ©man, have faithfully, and
with discretion. put themselves at the service of
the count furm interusts the county farm interests. Mr. Angle came in
June of last year, and Mr. Toole in April, 1910
succeedinis to New IBrunswick, aiter being only a few monthy in this office. .. so many apparently promising
lines of work press us for attention that it is diffi cult sometimes to discriminate in facor of what will prove in the end most useful," ollserved Mr ing from spring Mr. Toole spent several weens going from orchard to orchard, giving assistance
with spraying outfits, which trouble sometimes with the preparation of limesulphur, lBordeaux mixture, and other mixtures, pests for which the treatment is of the particular information re the treatment is intended. Specific poultry flocks is heing collected, with viow to increasing the production of these two important classes of farm stock
The sandy-loam soils of Norfolk make a natural
home for poultry, which fits in admirably with fruit-growing, and, wy improving the farm with yard and marketing methods, there is assuredly a large future for the industry
Some useful drainage-survey work has been
done, cow-testing encouraged, samples of miky done, cow-testing encouraged, samples of milk
tested for dairymen and others, and quantities of corn and potatoes distributed, with typewritten directions, for trial plots, with the object of establishing improved varieties of seed and system-
atic seed selection. Young men are naturally becoming interested in this work, as they were, along with the agricultural public generally, in
the three-days stock-iudging course in Februat the three-days stock-judging course in February,
attended by from 100 to 250 per session, under the auspices of the Simcoe Farmers' Institute Club), the Agricultural Society, and the North and South Norfolk Farmers' Institutes. It proved
one of the most instructive events ever held in tho county. Simcoe has one of the model autumn county
exhibitions of Canada, and Mr. Angle has this year been elected superintendent. Angle has this clover and some other special plots growing on the grounds. He started an agricultural class of five in the High School last september, a couple of whom contemplate going to the (). A. () at
Guelph subsequently. It has been fairly well sus. tained, and additions are expected next term. In addition to this, a six-weeks' course in agriculture, covering a study of seeds, farm chemistry and bacfarm botany and entomology, and stock-judging, was conducte-f in January and February last, and
was taken by 25 young men. was taken by 25 young men.
While not exactly a branch of southern on ario agriculture, the Provincial forestry planta-ar-reaching henghe Township is destined to be a other forest trees the " blow-sand ", area in this corner of Norfolk, and in supplying seedlings for schools and waste places all over Ontario. This
work is directed from the Agricultural College, at : iuelph. To the horticulturist interested in Howers, Norfolk County is notable as the home of
H. H. Groff, whose marvellous work in gladioli himprovement at his
row early is little if is not so early, after all. year, anl., what is worse, the cool, comparatively dry weather has enabled the wire and cutworms to overtake the growth, so that spring crops and grass on high, light land are, in many places, badly thinned out. Wheat has also suffered. So Ereat has been the damage that some are plowing and harrowing, hoping thereby to get a mixed general and the advent of settle wa no mean would set bring a fair crop. low, rich land nes generally uscaped injury, and perhaps high, rich land would, also, but all the high spots are pour in this locality, having been cropped more, be cause drier, and also because of fertility washing busteres. First and second crops on ot though we will have to break up sod at least every second year, or cease destroying the robins
and blachbirds. It would pay every farmer to have a good-sized orchard, with a thick windbreak of evergreens on two or three sides, to enprotected, but if they did run away with a bushel Or so, it would be only small pay for their services. The larger birds, such as crows, hawks and
owls, can easily be dispensed with. Field mice never become real pests, and any dog will clean Chem out in harvest time, so that we need not Treserve our wood-lots for this purpose ; besides,
these birds of prey scare away the smaller and more beneficial ones. Blackbirds and robins are great for getting outside of cutworms when the plow is going. I happen to be living where there are many trees growing near the house -soft maple, evergreen, apple, etc., and it is very inter-
esting to watch the antics of the various kinds of birds which are mesting. A pair of orioles Wove their nest to a swaying limb in full view
from the veranda; a pair of bluebirds chased an inquisitive red squirrel from their nest in a post the fence. Robins, swallows, kingbirds, blackbirds, and some others which I can't name, are frequent visitors, and probably have nests nearnear the for no other reason, I have nests near- want trees pur wood-lots are now of half a mile away, where Near-by is a small patch of alfalfa. It was lowed on level, but well-drained, fairly-rich clay keens well ahead of the red clover and timothy beside it, and is a real good stand. Twenty
pounds to the acre, and three bushels of barley were sown. The way the hens go for it is a reve lation, at least to the writer, It makes eggs, larger stock, they don't wander all over the field destroying as much as they eat, but keep it cleaned off close, as they reguire. Whether they
will seriously injure its growth. remains to be seen, but it is surely a chcap way of feeding hens Wheat is doing fairly well now, but spring grains and pastures are backward. New seedings good crop. Prosicets for fruit-setting are rather poor, because of cold, wet weather, which hinders the beas and other insects from fertilizing them. in them should do best other conditions heing equal. It is hard on the bees, too. They ar milding up but slowly, getting scarcely enough


Class, with A E Yeager's "Sensation" Under Review

Ppof. J. A. MeLean Joins "The Farmer's Advocate" Staff. cate," entailing an annually increasing burden of correspondence, especially of questions to be an swered through the paper, has rendered necessary more specialization than has hitherto been pos sible, to the end that a wide and active outlook
may be maintained over the whole field of agriculture and stock husbandry. The publishers of "The Farmer's Advocate" are pleased to McLean, B. A., B. S. A., who first saw the light of day on his father's 350 -acre farm at Ormond Dundas Co., Ont., where he afterwards put in many an honest days work. Holstein cattle and stock department on this iarm. In 1902, Mr. Mclean graduated from McMaster (niversity, Toronto, in the same class as his room-mate, Frof. of Resident Master at the ontario Agricultural College, and then went to the Iowa Agricultural College at Ames, graduating in 1905 with the 18.s. A. degree. As a student, he was a strong dents' judging contest in 1904, when the horse trophy was won by it for the first time. Since raduation, he has spent one year in oloraco, at Ames as Associate Professor of Animal Husbandry, and two years in charge of the Animal Husbandry Department at the Mississippi Experiment Station. which he left May 31st to con Lon tributor and departmental editor of various publications, and is well and favorably known among cations, and is well and favorably
the livestock fraternity of America

## Twenty-six More B. S. A.'s.

pleted the examination for the degree of Bachelor of Agriculture W. I. Bengough, W. Bowman, II Cooley, W. F. J. Edwards, F. E. Ellis, R. Fras C. F. Harries, A. Kennedy, C. M. Learmonth, Moorehouse (aeg.), S. J. Neville, F. C. Nunnick W. R. Reek. F. Robinson, A, M. Shaw, A. © $\therefore$ White.
The following candidates must pass supplemen al examinations in the subiects indicated (a) Cunningham (French or (ierman), H. L. Knauss
(English), J, I fughland (English, chemistry of insecticides and fungicides)

Thuning the month of April immigration into Alada was at the record rate of 1,600 per day,
of whom almost 700 came from the I nited States. The total for the month was 48.267 , an increase ficures for May are not available, it is known that thes "ill excred those of April For the first
quanter of 1911 the total immiuration has been quarter of 1910 the total immiqration has been
$98,1: 32$ as commared with 49.5 for the first

The principlus so elfectively illustrated by thos Hungarian pot experiments with legume-inoculat ing material and fertilizers (ior account of whi
see ". The Farmer's Advocate" of June 2nd), a oi vast importance. Best results were obtained from inoculating with cultures of the nitrogen gathering bacteria, and fertilizing with potash and phosphorus. The bacteria supplied the nitroren it is understood that potash and phosphoric acill may be purchased for four to six cents a pounct, while nitrogen, in the form of commercial fert the above means of soil improvement is at onco \& apparent. Of course, these pot experiments, ing conducted with a poor, sterilized quartz san showed a much-exaggerated benefit both from thin
inoculation and from the fertilizing, but the prin ciple is of quite gencral application. Fertilizing where necessary, with the two mineral elements plant food, and supplying nitrogen and humus
the growth of legumes (inoculated, if necessar is sound economic practice in orcharding and field

The " lure oi the West " has been felt in Prince Edward Island, as well as in other Provinces or the East. On many fine farms no one but the old Provinces, or further West, or to the cities of the
United States and Canada United States and Canada. However, an imml-
gration agent in thr person of Rev , W Winfield, was appointed last year, and he has bern conducting an active immigration campaign He landed lately with of repopulating the Island women and children, settlers of a most desirable type. Fifteen of the men hired out with farmers on their arrival: the others are negotiating for

The officially supervised yearly testing of pure Bred dairy cows, in connection with the various
Records of Periormance is proter Already there is a notable demand for stock bull from proved producing strains, says Dan Drum charge of the Live-stock Branch, Ottawa, who has portant than the resultant effect in the improve ment of stock, he adds, is the effect on the men The man is the greatest factor in dairying, and knowledge study in inzenship. The inspiration teducat work must and does develon a educated dairymen and dairy-stock breeders. That

There was no poblem in preventive medicine greater significance than that of removing th
dangers which exist in the ordinary market milk port of the Untario Milk Commission to the meat
ronto last week. Thre supply of Toronto could now be of the total milk
Nom disease producing germs. Interest in this
work was increasing. and it is hoped that in in coopration uith Dominion. Provincial and




Men of To-day.


Hon. Mackenzie King.
The Minister of Lator.
Hon. Mackenzie King, the Canadian
Winister of
 Lake Mohouk Conference on Interna-
tional Arbitration, held a short time ago, and recei ved great applause when
he suggested that the cent tenary of
peace bet ween Canada and the United peace ebetween Canada and the United
States, that takes place in 1914 , should be celebrated by the erection
of at great bridge or monument at of agreat bridge or monument at at
Niagara FFils.
The Rush- Bagot
Trents of
This Niagara Falls. The Rush-Bagot
ireat of 181 . he pointed out. in
meaking it unvecessary to fortif. making it unuecessary to fortify the
boundary line of over 3.000 miles
bound sitates, has been an example to all the world of the priceless advantages
of an agreement ior disarmament. of an agreement int insarmament
iluring the conierence. an ofticial an nouncentent irom Serectary h nox wa.
read. tating hat the great Judicial Arbitration (ourt is now an accoun-
phished faxt. and is lihuly to teo in actual
within
it England,
Austria.


Increasingly, of late years, bands of good men and women have set them.
vel es to outwit the plooters.


 sistent raids on dens of iniquity, are find yourseli in ine onshire, you will
made, nand in then

 ment soal be deported the the coun- the kindly added a carefully-prepareil
try from which they have come, as she

 ii 100 girls in disreputalie houses was very limited It was too pro-
in Boston, about one-third came from voking to be obliged to allot Chanada, while of girls depported from
$\qquad$
arom
Those who wish to inguire further tonishing how much can be accom

Thearers spanphet, or write to him,
Social headquarters or the MTrat land
Reform (ouncil of Canata.




the city, "little warning, a little onts too quichly. Primeses in pro-

situation is kown to be genum
arc not these but reasonable tre
are not these but reasonable pre-
cautions? Trust fiulness is sometimes


in many other things, it mulsi 1 年
Sature, or whether they took no heell
of them, living, as they nt
The Windrow.


narrow lane, deep mud in wet weather, where a few old wagons used by ragmen
are kept, not a single tree or blade of grass to relieve the glare of the hot sun. In a little narrow street near-by, an-
other family may be found living in a tiny hovel, the kitchen having sunk until everything is at an angle, reminding one
of a sea voyage. Here we find several of a sea voyage. Here we find several
mall children.
Two of the boys earn little by selling papers, but the income is very scanty. When school or work is over, they may join the smaller ones in
the alley. On one side is the wall of their little house, and on the other ashes and garbage, the only shrubbery to be found in the ward. But not only in the
ward are the candidates for fresh air ward are the candidates for fresh air recently visited, brought to light a fam-
ily living in a deplorable state no not ily living in a deplorable state, no not
living, for such existence can scarcely be be living, for such existence can scarcely be
called "living." A father and two young boys occupying two rooms, one as
a sleeping apartment, where a few old coats composed the only bed they had
In the outer room a litile stove was In the outer room a litule stove was
found, one chair, and half the remains of another, a basket of gurbage, and a box,
the scanty meals being served on a litt table made of rough boards. The mother is dead, and the two little girls are be ing looked arter by ncighbors. The
father has been unable to obtain stead
work, sufficient to keep his boys from starving One could not help but think how tha pale-faced little lad wearing an old pair
of girl's boots would anjoy a few blissful of girl's boots would snjoy a few blissful
hours at sorme swimming hole. A few hlocks south of this, just off King street. a mother was lying . .11; from her roon
she superintended the family affairs. little girl of nine years was doing mashing and looking atter the little
thers and sisters. As meal time proached she began to watch for th
brother and sister coming home trou work, who are scarcely uaore than chil dren. Such is the life of many a child Are these little ones not to share in the
pleasures which are rightfully theirs
One of the nursea while walking through the ward carrying a bunch o fowers,
longingly How those big eyes sparkled when sh saw that she too was really to shar
such treasures. my! !" and then the happy, dirty littll.
face was lost to sight in the flowers that were "really truly" hers. Think what rapture it would le for such a ch
cevel in the beauty of a daisy field evel in the beuluty of a daisy feld
The more one sens of the daily many of Toronto's children, does realize how much
our boys and girls our boys and girls: our boys and girls
lives, and surely a trip
materiall.

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fort to mome
$\qquad$
$\qquad$
What We Ask of our Friends wh

If the same children are desired again,
kindly let the Secretary hnow. Kindly let the Secretary hnow. Whether Miss, Mrs. or Mr.
State post - office address and neares railway station.
We wish to have by June 20th, names of friends who desire to take our Please join us in earnest prayer that above all, our boys and girls may learn onal Saviour. Chas. D. Gordon, Superintendent; A Road, Toronto; Mart in Lie Trasuren . Madina Road, Toronto. The Leaders of the Fresh-air Mission Farmer's Advocate" for homes offered and moncy sent in past years. Will yout ach of you sent a contribution in Por a fortnight-if not too far from To-
ronto-what a lot of happy little people onto-what a lot of happy little people
here would be! Our Lord still says
"Whoso shall receive one such little

## The Ingle Nook

 Initialling Linen
$\qquad$We little air of refinement and personal-


A Welcome Letter Wife. Jack's Dear Ingle Nook Friends,- If you knew Farmer's Advocate" night, you would now that I mean it when I call you friends." In this far-off land, the old
names and home papers are very welome. I am more than glad that the little paper I wrote on 'Care of Babies" has been so helpful. It more than ropays me for several years of more or
 here I will tell you what I have never before told "Advocat"" frimnds: Many
years ago a little son camo to us, and years ago a little son came to us, and
while 1 do not feel it was because of my ignorance we lost him, yet I do feel that had I known even a :ittle bit of the needs of a child, I could have made his
short life less painful. After his death rt life less painful. After his death,


Cans, and the majority of them carmmer peak English at all. Some of then while many do not even "savvy." p. noce in my itit or appreciate the ofl| "tin roota" I worricd throusb at till satppose you wonder it it is hot Well, the thermometer has


 an is now over (writen Nays 24), ani




$\qquad$
Another old FriendNook all this times now I come to ell|and bennat I derive trom reading yo
eeteres, and trom our eatiorst talks.
$\qquad$
ohers. This wort
and bo much happier wero wo all ti.

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| Onatario |

##   <br>   

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When Old Age Comes. By Burges Johnson I God grant me old age
I would see some things finished, some
outworn ;
Some stone prepared for builders yet Some stone prepared for builders y
unborn.
or would I te the sated, weary Who sees no strange new wonder
each morn. each morn.
And with me there on what men call the
shelf
Crowd m
best,
And
live
best,-- $\begin{aligned} & \text { Ald strifes, old kisses, some }\end{aligned}$ And livem which I cull the
old jest : For if I be no burden to myself
I shall be less a burden to the res
$\qquad$
$\qquad$
$\qquad$ And gaze out calmly, sweetly on it all-
Serene with hope, whatever may befall: With arm about you, waiting any call. raty


While we hug closer all the good w
find.
d have us worldiy foolish, heaven wise
Fach Fach lendin
stand,
Ungrudging, ev'ry mortal day's demand
While fear-fed lovers gaze in our old eyes And go forth bold and glad and hand
in hand

More Than Once.




with baceryd disc
The Roundabeut Club
Biographical Sketches
Robert Southey. Wewar sat in the Ilomed in 18351
pressed with the beauty of the moun.
nin scenerv, nind Nith his advanced study of logic and ang the higher mathematics, to mak oome ate acquaintum
itrerature



## Through the Gate or Not at A II



Good Fences are a farm investment that bring the most returns for the least money
$\mathrm{A}^{\mathrm{R}}$
y you losing money? If you had a hole in - purpnses. Gavanized hy latest improved process-the best our pocket, out of which you were losing that the skill and experience of years has taught t. Built um-earned dollars, would you sew it up? ually protects the stay or upright wires from breaking under farm is as much a necessity as a cultivator.

 of your farm, you have a hole in your pocket, out of which
you are losing good, hard-arned dollars. Sew it up. Look up an American Fence dealer and let him show
you how a fev dollas invested in fence will yield a bir
bir rate of interest on fred

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tion revealed the foot wery hard, and
hole extending from the sole hall-way wi
the foot

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 Ont., and Blnethamton N.
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Clydesdale stallion. J. W. Burt, Coninssby, Ont. ABERDEEN - ANGUS WALTER HALL. Washington, Ont. year go to make our piano keys," rereading the :cienti
medicine almanac.
handlady

## "Bronchitis."

THE SYMPTOMS ARE
Tightness across the Chest, Sharp Pains and a Difficulty in Breathing, a Becretion of Thick Phlegm, at first white, but later of a greenish or yellowish color coming from the bronchial tubes when ooughing, especially the first thing in the morning
Bronchitis is generally the result of a
eold caused by exposure to wet and inclement weather and when neglected
ind ill become chroni
Chronic Bronehitis is one of the most reneral causes of Consumption. Cure the
frat aymptoms of Bronchitis by the use arat aymptoms of Bronchitis by the use
of Dr. Wood's Norway Pine Syrup $t+t+t+t+$ Miss Martha Bou Bronchiti
Cured. get, Little Pabor-
Que, writes: "Last

- ${ }^{\text {spring I wa }}$ very Que., writes: "Last
gpring I was very
poorly, had a bad poorly, had a bad
cough, sick head-
ache, could not
 aloop, and was tired all the time. I conhad bronchitis, and advised me to give up toonhing. I Itiid almost everything but none of the medicines gave me any relief
One of my frienda advised me to try Dr. Wood's Norway Pine Syrup
ecarcely taken the first bottle when began to get better and when I had take
the fourth bottle I felt as well as ever, my sough had left me and I could sleep well It is put up in a yellow wrapper thpe It is put up in a yellow wrapper, three
pine troen the trade mark, and the price
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