## \%

PUBLISHED EVERY WEEK. \$1.50 PER YEAR


Vol. XLIV.
LONDON, ONTARIO, NOVEMBER 25, 1909.

Here's Our Wire Expert -
And Here's His Wire

own. Wire now. No other Fenc.
makey in Canada does that.
Ance we have obtaine the This Wire Expert has been makFCI Twenty of those Twenty nive years he hesearching. Now he knows exacty we require.

After Twenty-five years he cer tamly ought to know something

Made Wire in U.S.

 talking about when w at this new Frost Wire best ever used in any rave something to back Mave somethng
And that's the Wire, it-
This is merely to show This is merely ${ }^{\text {to }}$ stands the Frost Fence.

A New System
t.ecause of the unfit qual. most Wire that nearly all Fr


## Greater Resistance

Frost Wire will not snap, re-
archess of weather conditions,
The Frost Fence will stand a The Frost Fence
greater strain than any other
Fence on carth, made of No. 9


Even if the Frost Fence were it would stand up against any No. 9 Wire. But it may never be called upon to exert even one half of its resisting -power.

## We subject the Frost Fence to

Please remember this when y
Adheres Permanently
You certainly wouldn't expect paint to adhere to a piece of greasy, scaly steel, would you?
Nor will Galvanizing do so. This scale must drop off sooner or later, and
But with the Frost Galvanizing process, this common fault is obliterated. The Frost is the only Fence properiy
To make sure that the Galva
nizing goes on to stay, every inch of Frost Wire goes through the most thorough cleansings any Wire ever had.

Cleansing Process
First it is put into huge vats First it is put, ind left there for Twenty-five minutes. The great cleansing power of this boiling Acid removes every particle of grease and scale
It then goes through another It then goes through another cleansing, which ren.
Acid from its surface.
But to make certain tha every drop of Acid is removed Frost Wire is then baked in im


The Frost Wire Fence Co
Hamilton, Limited, Ontario


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This Cylinder Shows Why The "ELREKA" Root Cutter


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Every Premium We Offer Is Exceptionally Good Value. We Give Greater Value in Our Premiums Than If You Were Paid a Cash Commission. Note the Fol-
lowing List
BARON'S PRIDE. Handsome pic ure of the Champion Clydesdale. Size, for framing. I new subscriber.
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TRAPPERS For cush





# The Farmer's Xivocate <br> "Persevere and <br> Establishe. 

Succeed.'
and Home Nragazine
I,ONDON ONTARIO, NOVEMBER 25, 1909
1860

No. 896

Golden Opportunities irs in the opportunities that farmers have of not only making a living, but of laying by for their chndren and the proverbial rainy day. To force than to the farmers of Canada. Hon. R Canadian Club, of loondon, ruferring to the possibilities opening out to Canadians, said that one word expressed 2o Iritain and the Continent, and observing conditions there. That word was " opportunity.' apportunity used to be pictured by the Ancients, aid he, as a figure, with long hair in Aront, but and rous he herser be Canada, Opportunity walked side by side with and cortainly, now is the Canadiar farmer's opportunity. In any line in which he may engage returns are large. oats were selling in London, Ont,, market at 70 cents per cwot, and under; barley, 24 cents per any thing under 30 cents a bushel was an abnormally low price, and that there would soon be recovery if prices fell below that. Some farmers, acting on that idea, decided to hold their oats, but when, the next year, the price was but 20 cents per bushel, they scarcely knew what to think.
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$\qquad$unpleasant dream, the season of 1894, when, inhiddlesex County, at least, a grasshopper plaguemilk yield, and cheese sold for but six cents perpound. That was indeed a mue scason for theroducts of the farm are given as extreme caseonly of what was experienced a few years ago inmany cents a bushel, hogs for $\$ 3.50$ per cwt., goodexport cattle at 4 cents live weight, and hay for
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$\qquad$ancome rusulting from prevailing prices in thoshard seasons, they made no loud complaint ove
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Geference might be made to the value of hay, bar whose sustained and increasing they he said to offset this, though only in part, that more has to be paid for things we buy that wages are much higher, and the same is truc or marehiners, clothing, hoots and ines, fis
 an appree only thing one doean't have to pay more wris '" The Farmer's Advocate". On the other hand, it must be admitted that most of the thinge we pay higher prices for, as well as many ob tainable at the same old rates, are improved out of proportion to the slight advance in price. MaChinery, for example, is being constantlv per fected, while ready-made clothing is turned out in many shapes and sizes, and so weri gotea up the is isteadrly reducing the business cust Thaing it all round the increase in prices on poluce we sell much more than compensates for ny met advance in what we purchase so that compared with twelve or fifteen years ago, the armer's business is pleasant and prosperous, with prospect of remaining so for many years to Land values in the progressive farming regions are steadily rising, because the earning power increases, and there is no sufer or better inestment to-day than rural real estate, prote nd thus an a car. Tearze a fair rate or interest from has come upon halcyon days. It only remains hestir ourseives, and improve the opportuniti

The Christmas Number.
Plans for the 1909 Christmas Number are prac ically completed, and ere this announcement is read, the first forms will be off the press. That it may be the more pleasurable and refresing surprise when it comes, we refrain from disciosing charsume to say the acter of their contributions. Sunnce ted and emiwriters include some of the mose countries, the reat majority, however, being Canadians; while, from the bold, pleasing and original front-cover design, to the last advertising page, the contents will please, edify or prolit with the tarning on every leaf. A strong point is being made of ilJustrations, selected with a view to variery, interest, and illustrative value. Taking everything to consideration, we may confidently promise hat our readers high ox dised on pre ious productions, will not be disappointed in the

Why Some Farm Returns are Low. Many a farmer fails to get adequate returns from his farm because he stays at home too closely, puts in too many hours a day following the plow, and does not oten or other sections of the country where good farming is done. Furthermore, a man physically exhausted from a long, hard day's work is in no condition to follow and get much out of the literature of his business, as reported in farm papers, agricutcural bunctas, of ports and books, and without the advantage of all the information avalable from every possible source he will find awkward situations, times when some particular problem arises that cannot Success in farming calls for the very best effort Success in farming calls for the very best effort
in a man along all lines. The farmer who is dis-

THE FARMER'S ADVOCATE
the Farmer's 'Advocate and Home Magazine the leading agricultural journal in the the william weld company (Limitrd

## john weld, manager

Aoents for The Farmbr's Advoc
the farmer's adyocate and home magazine is pubished every Thursday.
It is impartial and independent of all cliques or parties, handsomely
 in Canada.
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Scotland, Newfoundland and New Zealand, $\$ 1.50$ per year. in

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 When made otherwise we will not be responsible
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with this paper should be add ressed
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Address-THE FARMER
$\xlongequal[\text { satisfied with his income from the farm needs to }]{\text { Losdon, Caxada. }}$
think seriously as to whether or not his farm is planned right for the largest returns, remembering that good farming calls for keeping up the pro
ductiveness of the farm while getting maximum

Sparrow Matches
". Are rats and sparrows common in Canada? means it as a joke! All over Eastern Canada cious rodents made their way into the Prairi region of the Dominion. As ar and, if anything rather harder to exterminatc. The discussion ong gested shooting, poisoning and prizes to children for destruction of nests as among the most imes sparrow matches are got up by the youn men of a neighborhood, the side bringing in the upper arranged for. One method of securin birds used by some of these young fellows is 1 he barn, with a lantern held close to his ter side under his coat, in such a way that the ligh His fellows stir up the hirds in the barn, whit mistaking

nistaking

As part of the value given subseribers to
Farmer's Advocate" is a superb Christmas Nu fity cents extra for their special holiday nu

Free Renewal and Clubbing Rates. his paper expire with the end of the yer fenewal time will soon arrive for a good many thousand readers. Of course, practically everyone wants the paper con-
tinued, and the great majority can easily afford the comparatively small sum o $\$ 1.50$ per year: There are those, however in straitened circumstances, to whom erer would be penny-wise-and-pound-foolish, they eagerly appreciate an opportunity work in the interest of " The Farmer's Ad vocate" and better agriculture. Indeed many who would not trouble themselles the monetary consideration alone will It by such loyal support of appreciative read ers that "The Farmer's Advocate" ha been built up to the position it occupies to
day. the good work, we offer these very favor present bona-fide subscriber who sends us accompanied by $\$ 3.00$, may have his own subscription extended two new names, he need remit only $\$ 1.00$ for the third and each subsequent one, retaining 50 cents out of the $\$ 1.50$ collected as a cash comm1s-
sion, to recoup him for his trouble. This works out as
$\$ 3.00$ for 2 new names and your renewal.






$$
\begin{aligned}
& \text { paper into new home } \\
& \text { Every farmer in Canada needs "The } \\
& \text { Farmer's Advocate." Thousands don't }
\end{aligned}
$$

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\begin{aligned}
& \text { Farmer's Advocate." Thousands don't } \\
& \text { get it. It is your business and privilege } \\
& \text { to get after these men, convince them, and }
\end{aligned}
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\begin{aligned}
& \text { met their names and money hefore they sign } \\
& \text { for other papers. If thes are taking others, }
\end{aligned}
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paper One man, working in ()xford and
Perth Counties, in districts where the bestfiitern, and so on. Nammes can be securedin almost any localit,. if it is qrone about
in the right way. Xon is the time to
work.

About 365 Different Rates Railway Commission has resemtly hatl
fair Let me illustrate: One farmer lives on the outskirts of a town; his blacksmith, carpenter,
drover, grocer and railway station is situated in drover, grocer and rallway station Another farmer living, say, eight miles from the same town, gets his work and supplies would have to pay a cong. is apparent. One would have to pay a long-
distance price, plus maintaining local system; his listance price plus maintainica system, and rare calls to town. I regretted very much that so few secretaries responded to your invitation to give an anteount or and connection. It is the only way at present known that each will get the best price and all have it, for the Bell Co. have as many

## HORSES

## J. F. Ryan, Manager of the Canadian National

 Bureau of Breeding, recently purchased and shipped o Canada, from Kentucky, ior pravate sale, 12 brood mares, by such Ims. Galore, Sir Dixon, andEscher. Imp. Meddler, Imp. Escher. Imp.
go-Bet ween.

In 1900 , there was an and persons engaged inules included) on farms, and arm lands: similarly, in 1890 there was an average of 28 horses and
23 horses and 14 persons; in 1870 , 20 horses;
in in 1860,18 horses, and in 1850,17 horses. These
figures are based upon $1 . S$ census returns.

$\qquad$ horse import figures for last year. Times were
when buyers travelled Eastern Canada picking up big, drafty horses at rather small prices, and oxporting them to Britain. In the same way large numbers of Canadan horses : ound marke for the year just closed, Canadian supplies numperch. 97 head and sold at an a a erage of $\$ 255.50$
phis is reduction in Canadian imports in $1908-1.919$. of 12.61 per cent. Canada ex-
ported to the United States, in 1909.116 horses,

Type and Judging

$$
\begin{aligned}
& \text { Just at this time of year we hear a good deal } \\
& \text { of harsh criticism of the thecisions given hy judges } \\
& \text { at the recent fall fairs. of course, a good deal }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Too whis is miefly due the thed } \\
& \text { that the judge does not have a very clea }
\end{aligned}
$$

$$
\begin{aligned}
& \text { idea of his duty-either hecause he is not a com- } \\
& \text { petent judge, or because he is hampered with silly } \\
& \text { and useless regulations of uninformed directors. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and useless regulations of of of dine diectors. } \\
& \text { The directors in making out the prizelist do } \\
& \text { their part to hinder the judge, by inserting the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { clause, "value to he considered," and of course, } \\
& \text { this is generall, taken to mean ". money value. } \\
& \text { The judge " does his bidding,", and places the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { most valuable animal first, regardless of the fact } \\
& \text { that another individual in the class is a much } \\
& \text { thetter animal, though for different reasons is not }
\end{aligned}
$$

$$
\begin{aligned}
& \text { that aner animal though for different reasons is not } \\
& \text { better ant } \\
& \text { so valuathe aqe. arerhaps, being the chicf reason } \\
& \text { for short value. I have quite frequently asked }
\end{aligned}
$$

$$
\begin{aligned}
& \text { for sort value I have quite frequently aked } \\
& \text { the jude why he paced such and such an animal } \\
& \text { first-not from the standpoint of a kicker, but }
\end{aligned}
$$

$$
\begin{aligned}
& \text { from the standpoint of an interested onooker, "The } \\
& \text { dessires to learn more His reply has been, } \\
& \text { first-prize animal is the most valuable, or "The }
\end{aligned}
$$

$$
\begin{aligned}
& \text { second-prize one was older " (in a brood-mare" } \\
& \text { class), or "The tirst-prize horse had more speed" } \\
& \text { (in the single-rondster class) }
\end{aligned}
$$

$$
\begin{aligned}
& \text { or "The tirst-prize horse had more speed" } \\
& \text { single-roadster class) } \\
& \text { let us see how this works out Horses, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Now, let use how this works out the wrong } \\
& \text { like eworything elsi, are often shown in the } \\
& \text { class. We have on record a Clydesdate stallion }
\end{aligned}
$$

$$
\begin{aligned}
& \text { that can trot a mile in } 2.30 \text { t two minutes and } \\
& \text { thirt seconds). Suppose he is shown in the } \\
& \text { singlu-roadster class, and none of the other en- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { singli-roadster clas, and none of the other en- } \\
& \text { tries can trot that fast, the judge referred to }
\end{aligned}
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in the bone. She shows high action, and trots
for 25 yards with quite a burst of speed, in spita $\$ 200$, as she is just five years old. The judge places her first. and turns down the aged
because she is "not as valuable an animal." the class for draft brood males is a little mare
whose picture would answer the purpose mhose picture would answer the purpose well of
illustrating Clydesdale type. But she weighs only
Begide her is a $1.700-1 \mathrm{~b}$. mare with a rather coarse head, and not such "silky
feather." She is rather low in flesh, and this makes her appear
rival. The judge says that the little mare ha the shape of a drafter, and has neither blemish nor unsoundness, while the large mare has faults therefore, he decrees that the small mare carry the
honors of the class. Now, these are examples of what may be seen
in any of the classes at only too many of the fall
fairs. Some reasons for such a state of affairs fairs. Some reasons for such a state of affairs
are these : The man who is labelled ", judge" are these 1. The man who is labelled judge ent classes (general-purpose, roadster, carriage,
etc.). 2 . He is hampered by absurd regulations of the directors. 3. Animals are not properly
fitted or uniformly fat-fat covering to some tent the weak places, and the thin ones looking worse than they really are
The first of these reaso the cause of more errors than either of the me, is two. If a carriago horse is shown among road-
sters, he has no right to any prize at all, and the judge should send it out of the class. Thus th a chance to see why he is not given a prize. A ring for draft brood mares, regardless of her con formation. If her owner does not know enough to keep her out, he, as well as some of the on
lookers, will mave a chance to learn what a drafter ought to be. To sum it all up, an animal should not be allowed in a class to which it does not
belong. What is the value of having classes for
horses at the fairs if these classes are not kept separate? Wo hear people say (and sometimes it is even put in print) that judges should often
"break away from type." If that is true, then the only right way to show horses is to put them
all in one big class, and at one show the alluable horse will take first rank; at another the fastest will be rated highest; and somewhere else
the first-prize horse will have to be the fattest. But it will take a long line of argument to con
vert me to the belicf that such a plan would tend to produce the best or even good horses.

Canadian Clydesdales at Madison Square.
Besides our winnings in the hunter and jumper
classes, and reserve Hackney female championship, it the New York Horse Show, in Madison Square Garden, Canadian exhibitors had things their own
way in Clydesdales. Graham Bros., of Claremont, and Hodghinson \& Tisdale, of Beaverton, appear to have been the only competitors: Graham Bros.' Crosby Gem; 2, Graham Bros. Lady Fergus. Clydesdale stallions, two-year-olds son \& Tisdale's Abbey Blacon; 3, Graham Bros.' year-olds -1, Graham Bros. Meteor: 2, Hodgkin-
 olds or over-1, Graham Bros. (Gartly Pride: Hodgkinson \&
Bros.' Boreland Chief. Clydesdale stallions for championship cup offered by Alfred G. Vanderbilt
-1. Graham Bros.' Gartly Pride: Bros. Meteor.

The Manitoba Agricultural Department's repory in that year under achedule $A$ of the Stallion $f$ n rollment Act, and certified as pure-bred and sounds
The breeds were represented as follows: Clydels.
 ey, 5: Coach, 3 ; Thoroughbred, 1 stallions were enrolled, and in the class for
wrades there were 194, making the totul number oif stallions in the Province 542 .

## 1 special feature this year in contario Winte

 Fair. Ciuelph, December 6ith to 1 Noth. will he a dis


## LIVE STOCK

Our Scottish Letter (heese shows and shorthorn sales hàve kept us pretty busy during the weary month of October.
But farmers who had the misfortune to have their Ventilation of Stalbles at O.A.C., $\begin{gathered}\text { pretty busy during the weary month of October. } \\ \text { But farmers who had the misfortune to have their } \\ \text { cruelph, Ont. } \\ \text { crops out in the fild had an anxious time, and } \\ \text { were very onf. The month has been one of the }\end{gathered}$ The satisfactory ventilation of stables under a lofty barn has always been regarded as difficult. In view of this fact, a few notes from last winter's experience with the system installed a year
aqo in the cattle stables under the main harn the Ontario Agricultural College may be read with During the summer of 1908 the interior fittings f the basement in this large end-drive barn were torn out and the whole plan entirely changed, the oot cellar being placed at the south end next the
approach. From a passage along the root cellar approach. From a passage along the root cellar
the rows of cattle extend northwards towards the silo and feed room at the other end. This gives long rows of stalls, with plenty of light admitted rrom windows on both sides, instead of having the
west side darkened, as it used to be, by a root cellar extending along its whole length. There are sixteen windows of twelve lights each and
five windows of eight lights each in the basement. The panes of glass are $10 \times 14$ inches. The dimensions of the stable are about 100 ft . long provided to tie 59 head of cattle, with box-stall accommodation for calves and young cattle. $10 \times 11$ feet, and one $10 \times 9$ feet. There is also a calf run, 80 feet long and 7 feet wide, which,
by means of gates, can be divided into smaller by means of gates, can be divided into smaller chains. The stalls for cows nursing calves are 4 ft. 5 in. in width. Prof. Day considers this right supports of the overhead structure rendered it inconvenient to have them otherwise without
making them quite too narrow. The width of stalls for steers and young cattle is three feet
eight inches. This would probably be wide enough for the majority of dairy cows. The
length of stalls from back of manger to drop is 6 ft . in one row, 5 ft 9 in. grading down to 5 ft .3 in . in another, and 5 ft . 10 in . in the west
row. The floors and mangers are of cement, with row. The floors and mangers are of cement,
a sloping board front above the cement curbing next the passage. Other details arc apparent from the cross-section diagram of gutter, floor and manger reproduced herewith. Water is supplied
in a continuous galvanized-iron trough, four inches In a continuous galvanized-iron trough, four inches
deep and ten inches wide at the top, made to special order by the Steel Trough and Machine Co., of Tweed, Ont., whose advertisement is familiar to readers of "The Farmer's Advocate.
In the case of the larger animals, the bottom In the case of the is nearly three feet above the
the water trough is
level of the platform on which the animals stand. This, however, is a matter that must be determined by the size of the cattle,
Now, as to ventilation, it should be first ex-
plained that the basement is well built, with light ceiling and double or storm windows, to minimize waste of heat by conduction. The ventem. The six 12 -inch square inlets have registers which may be closed, though this was not done last winter. The outct the ceiling to above the boxes running up cowl turning automatically from the wind to prevent down draft. Each is $12 \times 24$ inches in size, and is double-boarded, very satis-
paper between. paper bet ween. This air comparatively pure and preventing the accumulation of hoarfrost and dampness, except at the north end, where the past summer, with a view to overcoming this difficulty. In spite of the care taken to insulate the ventilating flues themselves, there was considerby their length. Indeed, it was found necessary by their length. Indeed, To difficulty was experienced last winter in maintaining a sating the lowest recorded hy the thermometers. Fxcept, perhaps, a little around the dors,
Iay thinks it did not frecze in the stable last winter, while the atmosphere was a great thm-
provement upon anything pever experienced in this winter not quite such a high temperature could
be maintained without sacrificing purity of air. but a few degrees of frost would do no harm,
the water may be turned off on cold nights
 deluge, and farmers whose crops were still in the field had a sore time. The harvest of 1909 will ang be remembered, and it it was not everywhere
as desperate as that of 1879 , it was in some dis tricts almost equal to that record year of misery The last week of October witnessed an improve ment, and much grain that seemed almost lost
has been saved in a kind of a way. We had very hard frost during the nights, and it was well on in the forenoon before anything could be "led." Mut in the end of the day, the four or five hour great change and, with plenty of workers a big extent of grain can be saved in that time. After a week of hard, cold, frosty weather, there is again a break, and to-day (November 1st) we
have conditions about as miserable as may be Potato-lifting proceeds apace, and the dry, hard
weather of this week has been conducive to rapid CHANGE: IN CHEESE TASTE-MEȦTY CHANGE: IN CHEESE TASTE - MEATY
CHEESE IN FAVOR. Cheese shows at Frome, in Somerset; London,
and Chester, have revealed a hopeless divergence in the public taste for cheese. The hard, dry good-keeping cheese which was in favor in Scot-
land, is no longer the leading article. The kind wanted is soft and "meaty," something that fills the stomach, and gives one the impression that he has had a big feed. An English and a Scots cheddar judge spent a day at the London show
endeavoring to come to a decision, and in the end had to give it up, and call upon other two-a Scot und an Englishman-to place the lots for them This they did, and the English cheddars won. The
demand is for a soft, "meaty " cheese, one that melts away in your mouth. One of the judges at the Kilmarnock show told us that the first-prize Dunlop white cheese, if made after the cheddar
shape was what he wanted. If such is to be the type of cheese wanted, there must be a big change in the method of making cheddars. ., The problem seems to be how to preserve the " meaty" char acidity The Dairy School and the itimerant in structors have been challenged by the merchants to alter their methods; and so far, at least, th net resul in and eanadian cheese. In land transit, the wonder is to find Canadian cheese competing so keenly with what is produced a home. Cheshire cheesse, Which is and better than ill-digested curd, is in great demand. marketing. It commands a very high price, in spite of the imm
SHORTHORN INTERESTS BRISK - COLOR
Shorthorns have had a wonderful innings this month. Great, sales have taken place in the symptoms of deoression are not to be discerned in the ranks o: the patrons of the red, white and roan. In Cumberland, Mr . Barries, a tenant (iood Friday, the buyer being Mr. Miller. La Belen tirkenhead, the well-known buyer for the Argentine. At Haugh of Ballechin, near Ballinbrig, in Robertson, was dispersed, 80 head, of all ages, and hoth sexes, made the fine average of $£ 6114 \mathrm{~s}$. and 185 guineas, mainly for cows and young cattle. with very few hulis, indicate how lively the
hidding was. Mr. Mobertson was a fine judge of hidding was. Mr. Robertson was a fine judge of
thorthorns. He hasl a capital eyc for the type $-2=4$

## 4



Shorthorn patrons from far and near. lerhap mixed sale held in Perth, in the afternoon of the same day, was a better index to the active value
of commercial Shorthorns. In the following, we made a day of it : At the
Duthie-Marr sale of calves held at Tillycairn, near Duthie-Marr sale of calves, held at Tillycairn, near
to Oldmeldrum, 24 bull calves, bred by Mr to Oldmeldrum, 24 bull calves, bred by Mr.
Duthie, made an average of $£ 2511 \mathrm{l} .7 \mathrm{~d}$. each. Seven bull calves, bred by John Marr, on the fa mous farm of Uppermill, made 57016 s . Od., an seven heifer calves, also bred by Mr. Marr, drew
an average of $£ 31$ 13s. Od. The highest price or bull calves were $720,700,620,480,400$ and 350 gs . The best calf in the sale was a whit bull calf, which would have made any price, had 350 gs , in spite or roan. As it was, he made three-year-old bull, Golden Promise, was the sire of most of the highest-priced bull calves. The verage for six got by him was $£ 37410$ s, and t254 16s. Golden Promise has been sold by Mr Duthie for exportation to Buenos Ayres.
of Augusta descent, and a marked feature of the sales this year has been the "run" on Augusta
blood. The Augustas were reared by the late James Irruce, of Inverquhomery. He was a firm believer in them, yet it was not until after his hat, whe share with the Clipper race the honors of first place among Aberdeenshire Shorthorns.
day following was held at Newton, Insch, on the as miserable in the extreme, yet there was a plendid average of $£ 7410 \mathrm{~s} .7 \mathrm{~d} . ; 390 \mathrm{gs}$. wer aid for a bull calf, and 300 gs for a heifer calf large number of choice cattle from tenant armers' herds in Aberdeenshire were sold, 72 head n that occasion making $£ 331 \mathrm{~s}$. 10d. Yet an head made $£ 3910 \mathrm{~s}$. 5 d . On the last day of the sales, and adjournment was made to Inverness where a good selection was offered from Ross-
shire herds, and herds in Inverness-shire and neighoring counties, very healthy, choice cattle and the results, were that 92 head made $£ 2618 \mathrm{~s}$, d. The best average was made by Balnakyle, his DECLINING POPULARTM and cattle at two gres made for High and Oban, may be mentioned. At the former, 5 head realized $£ 139 \mathrm{~s} .9 \mathrm{~d}$, and at the latter $£ 30$ three-vear-old heifer from Kilberry as paid fo a chree-vear-old heiter from Kilberry, in Argyll modern, improved, early-maturity sorts.
DOES NITRATE-FERTILIZING AFFECT SYS TEMS O
I don't know whether Canadians try to grow
ig crops o! hay by administering doses of nitrat of soda to the crop. Here there is a wide differ-
ence of opinion as to whether hay dressed in such ashion sets up kidney trouble in stock, and esectially in horses. Opinion is sharply divided,
and no trials have been carried out conclusive enough to satisfy some stock-owners that such a top-dressing is injurious. Some years ago, at a
show of the Highland and Agricultural Society ertain valuable anmals were seized with kidney trouble of some kind, and, as a result, one prize Shorthorn bull died. The owner set up a claim for damages, and maintained that the cause of
death was the hay supplied in the showyard, which was supposed to have been grown on a meadow dressed with nitrate of soda. The farmer who man who cultivated his land intensively, using large quantities of manure. It was taken for
granted that he had dressed the hay with the suspicious Chilian manure, l3ut the bottom went
out of the theory when it was blandly indicated out of the theory when ice, the farmer in this par ticular year had deliberately refrained from applying nitrate of soda to the hay. This was
fine case of the logical fallacy-post hoc, proptel guilty." All the same, there is a case for in quiry and exhaustive experiment, and in the end Mr. Speir, of Newton, one of the best-informed and most observant farmers in Scotland, is at
out-and-out supporter of the application of nitrat of soda to the hay crop on land which is wel
manured and in good heart. The truth seems t be that, in dealing with nitrate of soda, as with chemical combination. A successful lireeder Blackface sheep was once ashed, at a puthic meet
ing, whether the geological formation of the soil Thy, whether the geological fornuation of the son sheep-farining


SUCCESSFUL CLYDESDALE SEASOA - SOMF
Talking about Clydesdales, we have had a wonderfully successful season, and exports have gone co far as it has gone. Recently, there have been some auction sales, at which useful averages have seon realized. At the Seaham Harbor foal sale,
eleven filly foals realized an average of $£ 387 \mathrm{~s}$, 6d.. and fifteen colt foals realized an average of a $38 \mathrm{7s}$. 11 d . At Elgin, in the North of Scotland,
a colt foal by Marcellus 11110 made 155 gs.-a
$\qquad$ Amongst other things now troubling us are Canada? In some parts of Scotland there is a
Caying among farmers that "it is a fell healthy saying among farmers that "it is a fell healthy
sign to see a wheen radts about a house," Per-
sonally, I cannot share the oninion sonally, I cannot share the opinion. The most
loathsome of all rodents to me is the rat, and
there is reason to belifie that the loss sustained hrough them on farmst is enormous. The feof. She breeds at an appalling rate. and the plague has become so pronounced that crusades against the rodents are being organized in many
districts. In former days it was customary to poison the rats wholesale, but there are difficulties
connected with this method of waging war upon The vermin. You camnot very well set poison for Mr. Rat without imperilling the lives of much
more valuable members of the farm stock. And, besides, you' are never sure that Mr. Rat will take
the poison. His sagacity is almost human, and many stories are told of his abstemious policy therefore come into favor. This takes the form of setting up an epidemic among the vermin by
means of a virus. This is given in food. The
first animals which first animals which partake of it die. The rat is
a cannibal. Those which consume the dead bodies of their comrades in due season contract the dis-
ease. and die off, only to be the medium of contagion to others, and so on. But even this
method sometimes fails. The rat becomes suspicious when he sees such a wholesale death-rate agreed that, in order to he successful, the attack by means of the virus must be concerted, and ex-
tend over a wide area. War has been declared by many farmers' cluhs, but whether it will be prose-
cutad to the bitter end, is a little doubtful. Sparrows are by many regarded as more de Structive than rats How to attack them suc-
cessfully, is a very grave problem. Poisoning is
offective hut eftective, but dangerous, and it is posisoning is
legal. They, too, multiply at a terrible rate, and they can destroy grain while in the ear to an
extent surprising to those who are made acquainted ther winged farm pests, such as wild pigeons and Commercial Feeding-stuffs Act. During the last session of the Dominion Senate
and House of Commons an act was passed dealing with the sale of commercial feeding stuffs. The object of the act is to aid farmers, dairymen
and other purchasers of mill by-productalo to bu
more intelligently. It makes it compulsory fol every manufacturer or vendor of a commercial feeding stuft to stamp on the bag or print on a
tak, which must be attached to the bag. thi.
minimum percentage maximum percentage of protwin and fat and the
$\qquad$ some need of this act has hown apparent for appearance on the market of many different forms find such materials as linseed meal, products we gluten feed. corn, oil cake, ve fords rich in larly for the dairymen. Corn bran, oat hulls, and many other by products, are also on the Others are of comparativels little use. Mixtures
of these foods are also pmopared and offered for tion regarding their real froeding value. Most of compld be purchased to advamuge under of the pree
cont conditions of the market for grains and hume

 and many of these hy-products are the thest mat the qual int detines. 1 Thi net defines."
nutritive properties, excepting onty hay, root. wad directiv foom the ortire grains of wheat, rye bar ley, oats, Indian corn, buckwheat or flaxseed, wet brewers' grains; the bran or middlings from either wheat, rye, mixed with other substances. The act provides that every commercial feeding stuff offered for sale in Canada shall bear a regis. signed to the particula hrand of feeding stuff for signed it is issued. The number shall be grante by the Minister of Inland Revenue, on application of the manufacturer of such brand of feeding stuff or his agent, ato In addition to the registration number, the
name of the brand, name and address of the manufacturer, and the analysis as guaranteed by the manufact must Tegibly printed on eve held to be fulfilled if a printed tag bearing th statement required is securely attached to the ang partor made Any purchaser may have an analysis made by one dollar. samples must however, be taken in
conformity with the regulations laid down by the It will be noticed that mixed or unmixed meals, when made from the entire grain and bran and midalings, are exempt from this act. It is from different grains shall not be mixed. The in ention is to treat of these foods under the Foo
Idulteration Act, which has been in operation for some years. Iuring the past summer the Inland
Revenue Department follected and and large number of samples of mill chop, bran and middlings for the express purpose of fixing stand ards for their protein, fat and fire content. These they are, a manufacturer who sells bran, mid dilings or chop with less proten and yat or more cuted. For example, supposing that the standard 3 per cent. and not more than 10 per cent. of crude fibre: any bran offered for sale which does
not come up to this standard would he considered adulterated. It is hoped in this way to control adulteration of these common foods without in-有 bag of thell sold. force on the Cial Feeding Stuffs Act comes int dairymen, and all purchasers of mill by products解

Co-operative Breeders' Associations in Maine
Equal in importance, for successful dairying
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$\qquad$ (ive Breeders' Associations within heur Co-operathe Department of Agriculture, with Hon. A. W. Gilman at its head, and Hon, Leon S. Merrill along this line, and what they consider of the Says ir. Merrill in this connection: "Ther are at the present time about twenty of these As they have been county organizations. In Mich follow very soon, and I can see no reason why tended to associations for other breeds of exheside the so-called dairy breeds, also to sheep.
hogs and horses. will encourage its extension along these lines as
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Oxford County followed this initiathe, and
formed an association of Holstein 13reeders.
Three Counties, Oxford, Franklin, and Andros-
coggin, are interested in a Jersey Brecders' Assocobtion, formed in Jume. It was organized at
Canton, under the name of Indroscoggin Valley Canton, under the name of
Jersey Breeders' Association
At Wateriord, in September, Jersey breeders in Oxiord and Northumberland Counties met and organized a Jersey Breeders Association. They
were addressed by Dairy Instructor Merrill upon Co-operative Breeders' Associations, and by Prof P. A. Campbell upon the Brecding of Dairy Ani
mals, and were given some points in stockAt the October meeting of the Androscoggin
society, 1)r. (iallup) gave an address in which he society, Dr. (allup gave an address in which he
advocated measuring constitutional vigor by growth. He thought a standard might be ofanimals require to double their weight. He had applied it in the case of poultry, with good re-
cults, and considered it fensible in the case of cults, and
cattle. meetings, which are well attended. They hale
been addressed by speakers of note from within meet addressed by speakers of note from within
been without the state. With a view to increasing both cow-testing and
co-operative breeding associations in the State. co-operatil has declared that he will respond to
Dr. Merrill
calls for lectures upon these subjects, and will give all the assistance possible to organizing and
making succossful the work of these organizations. Each association of breedens usually devotes its energy to promoting some one breed of dairy distribution for that particular breed which would undoubtedly appeal strongly to its members from
the financial standjoint. and urge upon them the the financial staco-operating in every possible w
importance of co
for the promotion of that particular breed. The form of organization which Dr. Merrill recommends includes the usual officers, and their
duties are similar to those of other organizations duties are simiacter. In the by-laws, Section $\ddot{2}$ states that it chall
be the duty of every member to improve his herd of cattle by mating his cows exclusively with puretion to which he elects to belong, and doing as Wuch as he can to care for his herd in an up-to-
date manner; and that it shall also be the duty of memhers to co-operate so far as is possible With their fellow members in the use of pure-bred
bulls, and in buying and selling animals: also, to get new members. and encourage them in the
practice of better methods in caring for their
herds. There are in the Sate four cow-testing asso-
ciations, with a cow membership representing over ciations, with a cow inembership representing over
I.300 animals, and a fiith is being stronqly talked. These societies are now on the increase. and,
with the astathishment of co-oterative brecterss ussociations, Maine is on the road to become, if
not one of the largest dairy States in the Union in point of cow population, at least one of the
leading states in point of romunerative dairying. Maine state M. I3 AIKEN.
The receipts of cattle during September and October in the principal Western states markets
were about 9 per cent greater than during the same menths last vear. The receipts of hogs, howwer. in Western markets during September and the same months last year. Prices of hogs at Western markets averaged, on or about No-
iember 1 st. nearly 30 per cent, higher than a
vear ago, and cat 1 approximately 18 per cent yorer ago, and cattlo approximately 18 per cent.
hicher.

THE FARM.
Another Cement Silo.
Another Cement Silo.
silo-building is one of the livest agricultural subjects in Onlario and the corn-growing districts of (Quebec. "The Farmer's Advocate" has pub
lished particulars of the construction of a good many silos, but, judging from inquiries received, resh data are always interesting to those of ou
readers who have yet to build.
The accompany ing illustration shows a $14 \times 40$ foot round co ment silo, with scafolding about it, on the farn
 soits. A five ionot for roofing, except for the stone was built 18 inches thick. Above this the
wall is 12 inches thick, finishing with six inches wall is 12 inches thick, finishing with six inches
at the top. Such a silo should hold 160 tons of silage, and 12 acres of fairls good corn ought to

A Tour of the West-II As promised you, I will endeavor to give some
additional notes on the Prairie Provinces, especially the Saskatchewan Valley, the northern part
of which has, during the past few years, been atof which has, during the past few years, been ar-
tracting so much attention. Having on a previous occasion made the tour of the country over the main line of the C. P. R., and having heard so much of the fertility of the more northerly por-
tion of the Provinces that had during recent cears been opened for setllement by the C. N. R.
building a network of railwass, I decided to pay bulding a network of railways, I decided to pay
visit to these quarters and investigate for my Northivard botind. Our first stop-over as we journeyed northward
of the C. F. R. main line was at Dauphin, located nearly midway bet ween Lake Dauphin and the Ridong the time of our visit and here us well as at other surrounding localities, the crop was good, and estimated to yield from 30 to 40 bushels per
acre. The season is a week or ten days later han on the Portage Plains. I akes Dauphin and Winnipegosis to the east, and the mountains to the west thev have a milder at many places.
where he rich vegetable mold was five feet deep, and nowhere, I was informed, was it less than two feet. The soll is largely composed of phosphate shat in ages past from the slopes of the Riding Mountains, to the test. In some of the more northerly portions of In some of the more northerly portions of Manitoba that are passed through, it is quite
heavily timbered, sparsely settled, but in time will be brought under cultivation.

We continued our journey through Manitoba nd into saskatchewn, that great wheat-produc-名 its two branches, drains a large area. The value of so much of these Western lands lies in the amount of nitrogen, phosphoric acid and potash duch they power. These three substances supply largely the requirements to grow and produce all crops. We are informed by those who have made it a study that in an acre of the average soil here,
and generally in the West, there is twenty times as much plant food as in the average soil in the East which accounts largely for the crops that can be grown year after year on the same ground CASKATOON
We made our headquarters at Saskatoon, from which side trips were made to other localities. Here we saw farming operations conducted on a yarge scale, as they are inclined to do in the hauling three 8 -foot-cut harvesters on a flax ranch, while at another place similar nower was hoving along nicely four 8 -foot-cut harvestens, loing thirty-two feet of wheat. To see an engine hauling a ten 14 -inch-furrow plow is an or


Horse Powe

## $\pi$



Harvesting with Steam Power in Saskatchewan
here, on these large ranches of a thousand acres
and over. The new settlers, who are not able and over. The new settlers, who are not able
to buy modern outfits for farming on a large scale, can now usually get someone who makes a business of going about breaking, etc. Those, oo, who have long distances to train of wagons. They have this season been experimenting about here with a device attached to the harvester which plows the ground as fast as the grain is cut, the sheaves being lodged on the plowed ground. Much
of the grain is drawn as fast as threshed to the of the grain is ars. Some have portable granaries, and the wheat is marketed at their leisure. One farmer here had his wheat run on the ground,
12000 bushels, at one time, and when through 12,000 bushels, at one time, and when echroug threshing hauled it away. Trovidence seems vear as they get little or no rain.
I also spent some time about Prince Albert one station, Rosthern, on that line, where the Rus one station, Rosthern, ottled, for several years over $1,000,000$ bushels of wheat were shipped out an-
nually breaking the record of Indian Head. While much more wheat is now grown there, other much more been built, drawing part of the trade There are also other prosperous settlements on the line. Besides a good quality of grain growi
about Prince Albert, I saw fine fields of clover while vegetables of all kinds thrive. It has an up-to-date sawmill, and the city is one of no mean importance. It was one of the earliest Hudson' Bay Company's posts in the West, and is supplying
ing a good business in furs, as well as supl ing a good business in furs, as well as supplying
goods in exchange with the Indians, some of whic are transported by canoe and over portages fo
1000 miles. The Shell River Settlement is 1,000 miles. The Shell River Settlement is
miles to the West, where a prosperous settlemen miles to the West, where a prosperous settlemen
is growing wheat and oats, and hauling it here. is growing wheat and oat, and hauld not be bea en anywhere, and they assured me last year di ferent farmers had a yield of 60 bushels per acr
of wheat, and the same was expected this year but threshing had not started at the time of our visit. The climate here, as at Prince Albert, seems milder than at Edmonton, although on abou
the same parallel of latitude. At the time the same parallel of latitude. At the time had been reported at Edmonton. stretch north-westerly from Prince Albert to a is being erected, with a capacity of cutting tw trainloads daily. This route also opens up a good agricultural section, and will, undoubtediy, in time
country
What I have said regarding Saskatoom and its surroundings applies generally all over this region Nowhere did I find a locality that did not have good crop of wheat
where they were grown
There are many interesting settlements by fo eigners, which, if time and space would allow, would like to tell you about, sucsian Mennonites, cians,
Hindus, the English Barr Colony; Ctc. Allom ing these foreigners, in some cases, as and gives
Doukhobors. to settle in one communit, customs and habits, and thus retards them from adonti
ized. Through Atsere we stopped over, crops wer several places where we stopped over is generall grown, and the same applies largely between Edgrown. and Calgary; and here, too. winter wheat is grown quite extensivel and Amed calyary being more generally adopted.
country known as semi-arid, where the dry-farming gare is where the C. P. R. irrigation ssstem
res It is quite interesting, and would furnis The Campbell and other systems of dry-farm ing have proven a success, 1 have been inhere about Medicine Hat, and oxperiments, which in time will lead to all these semi-arid tracts being cultivated. Wheat being sown so early, befor the frost is out of the ground, generally gets ac resorting to the dry-farming method, a greal variety of other crops can be grown, thus making the farmer more independent should the grain crop
I have been obliged to report from every quar I have been obliged to report from every quar
ter (only in a few localities did frost do slight injury) a " bumper crop " of wheat, which wi go a long way to supply the wants of the hungry
in many lands.
How much more can Canada in many lands. How much more can Canada, when all her available wheat land is "Stafi of Life"? A recent conservative estimate placed the amount of land now under cultivation in the three Prairie provinces asd.
tenth of the available arable land. The railways are now heading for that much-talked-of fertile Peace River country, with an area that is adapted for wheat and grazing that
is almost beyond our conception. The reports is almost beyond our conception. The reports,
too, of the comparatively mild climate, and the little snowfall in that far north land, where catle graze all winter, are almost incredible. They would have us believe, too, that the G. T. P.
alone will open up $300,000,000$ acres of arable land. Some of the best samples of wheat have been grown nearly 1,000 miles north of Edmonton, where the long sunny days of summer mature crop
When one examines an isothermal map which of St. Paul, Minn. (a great wheat section), and Edmonton are about on the same line, although
the latter is nearly 1,000 miles farther north, the possibilities of this Northland, with its advantage of increased long summer days, is evident. It is how only a waiting the great highways, as did the
West, to develop, and make it a valuable asset to our already great wheat-producing country.

A Seasonable Suggestion.

$$
\begin{aligned}
& \text { If every subscriber to "The Farmer s Adm } \\
& \text { cate" would send a new subscription along with }
\end{aligned}
$$

cate" would send a new subscription along with and the paper would then be greatly enlarged and improved. If every subscriber sent two new names accompanied by the regular subscription price of
$\$ 1.50$ each, our lists would be trebled, and a cor$\$ 1.50$ each, our ists wourcement made. True.
respondingly greater improvement
here are some localities where nearly all farmer already take the paper, but there are many other sections where a few new names can be easily se canvas. Get after these now, before they hav including your own renewal and two new sul including your own renewal and two new sul

## THE DAIRY

Tpy the Dairy-herd Competition Up to a recent date, entries for the dairy-herd compectition, held under the auspices of the Dairy
conn's Association of Western Ontario, had been men's Associaly few. Unless there is an encouraging number of entries between now and Novemher 30th, when the time for appication expires there is year It would be quite too bad if ther should not be sufficient entries to lift all the prizes. The dairy-herd competition is a splendid idea, and every man interested Many, it is to be feared, hold back because they have a heifer or two in the herd this year, or or other like reason
their production, or for some forgetting that other competitors have just such will pour in forthwith to the Secretury, Frank -

More Prizewinning Perth Co. Cheese.

$$
\begin{aligned}
& \text { of the superior cheesemakers in Western } \\
& \text {,o a young man who takes pride in his oc- }
\end{aligned}
$$ a young man scrupulously the invaluable lairy doctrine of cleanliness, is J. E. Stedelbauer maker in the Wallace heest Mr. Stedelbauer has been managing a factory for seven years, and hat a first-class certificate from the Strathroy Dairy bers of the Dairymen's Association as having won the Cheese-buyers Trophy at the Winter Dairy Fixhibition in London, 1907, and has sinc hibitor at Toronto, London, and Sherbrooke, hav ing secured first prize for June and July colored at the Canadian National Exhibition this fall. hate if edelbauer considers all sol cheese made during the summer months, as he is handicapped in several ways. In the first place, only a feil of the patrons cool their milk, and after the chees hence there is no variety to pick show cheese from. A curd must be picked, made up, put in the ice house, and riances taken on it, if it turns been

right, well and good. However, he has bean quite successful at the winter dairy exhibitions and in connection with the andure then provides cool-curing and cold-stor hige, as well as insuring properly-cooled milh The show cheese are then picked just out of the ordinary make, the way of making not being
changed in any way whatever. Following are a few particulars in the maker's own words: " We set vats so as to keep curd in whey from $2 \frac{1}{2}$ to 3 hours, drawing off part of the whey a
16 , after which we rake occasionally. Aiter dip ping, we stir curds until dry, after which we pile them up. We try to dip so that the curds whil he ready to mill in from $2 \frac{1}{2}$ to 3 hours, whe curds are well flaked. We use judgment as to
salting. Our cheose are pressed nout is hours. as we have only one set of hoops. We have at
very poor curing room to put the cheese in, how Fasteurization of whey was tried this vear, an continued until the end of september, heing done pasteurizing in this cass is done in the lower tank pasteurizing in this case is done in the lower tank
and all the best patrons have been, we underhad been troubled with hitter flavor. but, since pasteurizing the whey, there has been no trace of
it. The make of cheose in this factory last vear Wus 1600 tons, the milk heing supplied by a large names being on the hooks. coment floor fut in. I complete new set of 36

make-room is painted with a water-paint.
mated
 Mansive than the wooden vats, it is proving very
pensise
With a first-class maker, aud the satisfactory.
patrons bestirring themselves to improve their patrons bestirring a cool-curing room, the Wallace
factory and fit up
factory may be expected to take early rank among factory may be expected to take early rank andone
the best and most progressive in the Province.
in Eternal progress is the price
tation in the dairy business.

Daipy Notes from Across the Line BACTERIOLOGY FOR THE DAIRYMAN. this article in search for something of greater inwith eight others out of every ten, are scared when you see that formidable word " Bacteriology " staring you in the face, and at once yo
conjure up in your mind's eye vivid pictures disease, suffering and death. I assure you from the start that it is all a mistake, and that jou
nre really the loser in the long run on account are really the timidity, which prevents you from looking into this matter more thoroughy and
from get ing to the bottom or it once and for all Just a lit tle courage
this has come about.

BAC'TERIA BENEFICIAL AS A WHOLE. Most people learn with surppise that by far the
greater proportion of the bacteria known to greater are either absolutely necessary or dis-
man are be as as
tinctly beneficial to every one of us, as long as this planet of ours is to be the
abode of living beings like ourselves. A smaller group of bacteria, neither actively beneficial, nor
yet injurious, are classed as inert or harmles; yet injurious, are classed as inert or harme
while in a still smaller group yet are found the a whole have received their very unsavory reputagenic or disease-producing germs, which, owing to
the marked and vital changes they produce in both the marked and vital changes they produce in both
plant and animal life in comparatively short
periods of time, have become better known to the public, and have been more thoroughly studied
and discussed by scientists and others than all the others put together. Thus, the mistaken idea
has come about that bacteria and disease are synonymous terms.
DISEASE (iERMS IN MILK. A general hnowledge of the bacterial diseases of
cattle and man is of utmost importance to every
dairyman, first in regurd to the healthfulness of daryman, , inst in regurd to the cream, and, sec-
his finished product, i. e., milk or creat
only, in regard to the health of his stock. It is well hese pathogenic germs may be transported from Che farth to the home, and also from one animala
to another on the farm. In this manner incula animal is seeded with the injurious germs; and if they find conditions favorable for multiplication
and growth, infection takes place, and the animal comes down with the disease, which terminates
only too frequently in death. In cases of bacterial disease, the trouble is due
to the rapid multiplication of the germs within the body of the animal, and to the production by
them of extremely prowerful poisons called toxines these act upon the vital organs and check therr
operation, and unless relief is given by medicines or otherwise, death ultimater ans lof to
ensucs.
Inoculation, however, does not always lead to infection and disease, as the healthy body is wel supplied with is only when the normal vitality is
gency. It is lowered, due to hardship, exposure, want of roon,
previous disease, etc., that the outsiders gain the victory, capture the stronghold, and put the do
fenders to rout. Of all the bacterial discases with which the
Oniryman the commonest, and most important. Owing to that it may reach an advanced stage before any casily-observable symptoms indicate the diseased conditio of the animal, and to the of this disease are frequently found in the dairy products offered ior sale, and are capable of producing, and occasionimals, it has been unanimously decided that the tuberculous dairy cow is a menace to the com-
munity, and must be exterminated as soon as munity, and must be And so it behooves the dairyman who would be ahead in the procession to ascertain the health of his own here spread of the the tuberculin test, to prevent the spread of and
disease by the commonly-practiced methods, disease by the commonly-practiced methos, before
to gradually eliminate the reacting cows
the health authorities step in and condemn them

## bacteriology of the soil.

 The question of soil bacteriology cannot ant article, but in brief it may be said that this one oi the newer branches of the science, andone which, during recent years, has afforded a one which, during recent years, has afforded a
very iruitful field for investigators, who have
added very considerat.ly to our knowledge of the added very considerat.ly to our knowledge of the changes which take place in the soil, and the con-
ditions necessary for the successful growth of several of our most important crops.
There is no doubt whatever that, in the near
future, a more intimate knowledge of these tireless workers under our feet will be a necessity for the xpert and successful crop-raiser bacteria in milk and its products. Of most interest to dairymen, outside of the disease-producing bacteria, are those which are count of the close relation which they bear to the quality of the finished article. This is a phase
of the subiect which is receiving more and more of the subject which is recelving more and more
attention every year from large commercial dairy attention every year from large colmmercial dairy
concerns, both collectors and distributors of mar ket milk, as well as manufacturing plants, as they
are slowly learning by hard-earned experience that are slowly learning by hard-earned experience that
it means dollars and cents to them in their busi it means dollars and cents to them in their busi-
ness. The public, as a whole, is in hearty symness. The public, as a whote, is in hearcy sym impurlties in their food supplies, and in the case
of milk, besides requiring that it shall be free of milk, besides requiring that it shall be free
from disease-producing germs, there is also an infrom disease-producing germs, thean milk; that is to say of milk free from the miscellaneous dirt of the field and barn, and the bacteria (not neces-
sarily harmful) which always accompany it. The practical study of the life-history of these germs, their natural habitat or home, the source from which they gain entrance into milk, the
various effects produced by their growth and multivarication in milk; the means at our disposal to plication in milk: the means at our disposal to and so preclude altogether. or at least minify
 thousand birds were reared on
this this area, there were probedably
not more than 800 chickens not more than 800 chickens
on it at one time, because
many of the earlier-hatched many of the earlier-hatched
chickens were disposed of as broilers. interesting figures of the cost of raising chickens under this system were sub mitted. In the furst plop that
Prof. Graham calculates
a chicken, when hatched, a chicken, when hatched,
stands them 5 , cents. The
mer mortality all round College, incubators at experimental machines, was this year about
30 per cent, ranging from 30 per cent., ranging
per cent. to
7 6 per cent. As to feed, 345 chickens in the pasture hield, on Octobe of reed, consisting of pound corn and oats, mixed in the proportion of $2 \frac{1}{d}$, 2 and 1 . mash of low-grade flour, buckwheat meal and bran, with
per cent. of beef scraps. They ate about one-third as much mash as grain. meant that one of these chickens, on Uctober 7th, represented 12.4 pounds of grain. Their average weight would have been at least 8.88 pounds.
Some brought in September 1st had weighed 4 Some brought in September 18t had weighed 4 .
pounds. Crate-fattened chickens were then sellpounds. Cratelatened atcher at 15 cents a pound. In June, cockerels hatched April 1st had been sold at 25 cents a pound as broilers, bringing a birds
over 70 cents apiece. The crate-fattened bird in sold at 15 cents a pound, were fed two weeks in
the crates after being taken from the range. The the crates after being taken from the range. The
gain there was suficient to produce a pound of gain there was sufficient to produce a pound of flesh for about 8.4 pounds of grain consumed.
Just as the chickens came of the range, they might have been valued at 12 cents a pound, though the College authorities do not consider it economical to sell unfinishod stock. a 3.88 -pound bird would have been worth, as he came from the bird would have been than 46 cent

$$
\begin{aligned}
& \text { range, a littlo bio } \\
& \text { Or, if the object be eggs, the showing simi- } \\
& \text { Island favorable. Rhode Island Ked, Orpington }
\end{aligned}
$$ larly favorable. Rhode Island Red, Orpington and Rock pullets, hatched Apris 1st, and reared on free range, were lay pullets were brought in be-

great majority of the
tween September 17th and 30th, Many are now laying.
In the orchard, 773 birds were grown to a
Of these birds, 218 were weight of 2,584 pounds. Of these birds, 218 were
sold as brollers previous to Auguat 16 ch . These birds were brought in to be crate-fed or put in the laying pens, or reserved as breeding stock
between August 16 th and November 8th, the me between August 16th and November 8th, the ma
jority being brought in in September and the frr
week in October. This figures out to be 8,649
pounds grain consumed, or one pound of flesh represents 3.34 pounds of grain, and the weight tird chickens 3.34, ayd the grain consumed pe
bis.16 pounds. The lower weight of the chickens here is presumably reduced considerably by the broilers. In addition to this, it is well
to remember that there were quite a large number of Leghorns raised in each lot or a large number in each lot were some of practically all the breeds kept at the College-that is, Plymouth Rocks Orpingtons, Wyandottes, Leghorns, Minorcas, The colony houses used are very simple an lustration. In a $6 \times 6$ house are placed tw brooders, with a hundred chicks, and it is en deavored to have the number reduced to 50 by the
time the birds weigh 4 pounds. This is acto plished by disposing of some as broilers or by tak. ing a number of the more forward ones up to fat ten from time to time. If, however. the house becomes too crowded, some may roost in the trees
An open space in front of the house provides ven tilation, netting being used to keep out maraud ers. By thie way, it is necessary to close up the oor of each house every night to exclude pre With hoppers
hold' a week's supply, the feeding and care are very easy, the health and growth of the chicks is re markable, the feed bill low, and the injury to
crops surprisingly small; while, if kept in an or chard, the birds will render a valuable service by consuming infested fruits, thus helping heck such
ing moth

## APIARY.

## Middlesex Beekeepers Meet.

heir annual meeting in the City Hall, London
een to members one fairly satisfactory. Amon he questions which came before the conventio PACKING FOR OUTDOOR WINTERIN Could outside-wintered bees be packed to warm? The general opinion
shod have about five inches of packing at th ing should not, and ten inches on top. The pack The opinion expressed was that the summer ers should be taken of and not even placed on moisture from passing off. Again, the winter packing should not come up to the outer cover, ing. so the moisture would not accumulate during he winter and make the hive damp.
work as inspector. Of the 22 apiaries he had nspected during the season of 1908 , eleven had The condition of his district had been improved, ime allowed him by the Government had been quite inadequate. Quite a discussion took in the following resolution: he increased encourarement it is covernment for beekeeping industry of this province, and that it would respectfully urge that a much greater an coul brood in this Province: also, that inspectors
should be sent out to do their work for a longer ime when the disease is known to exist in th
district. Nm . Moore, of the Western rair, aduressed th
meeting, seeking to stir up the interest of then
keepers in the fair, and promising greater encour gement on the part of the faim. emonstrations he fiven in the hundling of that the interior of the hive one shown to . .

und the natural hisitory of the bre explain $A$ commituee was appointed to meet the Wes nd Kimball, to stee if a sutisfactorr urrancram ould be made with the board for these demon That following ure the offreres for the unvin, | cars. |
| :---: |
| resident, |

Bainard It appears that a large number of the count. on the suppression of foul

## GARDEN © ORCHARD.

## Home-prepared Stopable Lime-

 sulphur.fessor of Eaper read by John P. Stewart, lege, Pa., U. S., before the American Pomologica stractention, in St. Catharines, this article is ab Lime-sulphur in the dilute form has been o service to horticulturists and entomolugists since
ane discovery of its value by F, Dusey, at Fresno. Cal., in 1886. The material used by him was sheep dip borrowed from a neighbor. To a ior the beginnings of our knowledge of the value some sixteen or eighteen years after the first horticultural use of the dilute material, it appears
that in Utah it became the practice oi certain Lhat in Utah it became the practice of certain
purchasers of a concentrated dip solution to buy a few extra barrels each season for application to their trees. This dip was prepared by a Stock
Food Co., of Omaha, Neb., who corroborated the practice by sending inquiries and samples for trial been regularly marketing their solution as either dip or insecticide, without moditication, so far as
the writer has been able to learn. And it is interesting to note thar, although the home prepa fation of storable dip solutions has been known preparation
considered.
The concentrated lime-sulphur solution as we
now it to-day is a water solution oi lime-sulphur compounds, of a bright cherry red or reddish may run from 1.20 to probably us high as 1.35
about $24^{\circ}$ to $38^{\circ}$ Baume. It difters from the
ardinary dilute ordinary dilute lime-sulphur chiefly in its ability
to be stored, in its freedom from objectionable ediment and solids, and in its availuthity as a summer funglicide. at about 17 degrees F. for the lower density, and
somewhat below () degrees F, for the higher From yomewhat below 0 degrees F . for the higher. From
ur experiments, we would say that this freezing s rarely injurious to the solutions, which nearly always recover completely on thawing. Their
causticity is distinctly less than that of the ordiduction in their effectiveness as scalecides an iungicides. On continued exposure to air at ordinary
temperatures, a crust of solids may be formed which sometimes becomes very thick and objec lionable, and at other times remains thin, and
act as a protection to the liquid against further olidification. This crust can be readily skimme n the mother liquid, and we have prevented it
entirely either by covering the solution with which were filled completely. of sulphur, and a high-grade lime. Success de pends more on the character of the lime than on
the sulphur. After securing lime of proper is of the greatest importance. Fixcess of lime i most of the hard sediment which are so sobjection able. After repeated trials of various ratios of
th. substances to the 100
gallons of water, it Was found that 100 pounds of lime to about 2011
pounds of sulphur, and boiled one hour, was most The next question is to determine the most ef sity A storable density is considered to the one without ireezing. Not to mention the results ob-
ained by using different amounts of water. from .) gallons to 128 gallons to the 1 (im) pounds lime cerage qualities of utilization of materials and
torage qualities, 100 to 110 -rallon volunn simplest, for home moun afacture. With the con mercial product, where frocight ratus and cost lensity is preferable
The procedure in the actual hoiling is not great Is different from that in the making of the or
dinary dilute materiai. The utensils needed are 'ooker, strainer, measuring stick, and hydromete
In making the concentrate, we. have found much more convenient, and at least equally effec
tive, to add the dry sulphur to the slaking lime rather than adding it in the form of a paste. Car
hould be taken. however. to maintain a mor condition of the mass, and to thoroughly mix i hat may appear during the process of hoiling.


vither homemade or commercial, the use of a hy, Irometer hating the specific gravity of a hy Themended for determining the required densits:
The value of limesulphur used when trees are monstrated and acted upor future for this mixture as a summer spray for both scab and insects. The exact strength that it is safe to use for the different kinds of foliage
connot be said to have yet bcen found. Experiments are being oonducted to determine this, how ever, and before a great while, it is safe to say,

## Apples for Bruce Co.-Cherries

 Between Apples.1. What would be the best varieties of apples for
commercial use in this district, and, also, would
be any advantage to plant a quick-growisy ar any advantage to plant a quick-growing c." ${ }^{2}$ I I intend to set out a cherry orchard, among thein? 3. What variety of tomatoes别 1. I could not do better than give you the
ast of varieties recommended to: Fiherring ton, of Walkerton, as the most satisfactory commercial varieties for his district. This list is pared after ten years' careful experimental work. 1lis list is Astrachan. Duchess, Wealthy, Fumeuse (Snow), Mcintosh,
Spy, Golden Russet, and Ben Ihavis. If I I were
ieducing it to hali that number, I would select the Duchess, Wealthy, McIntosh, IBlenheim, and Spy. ${ }^{\text {I }}$ would recommend top-grafting spy on
Talman sweet. 2. If the apple trees were set 30) or 35 feet apart. you could plant cherries, such as Montmorency, between them, although this pracWice is not always to be advised, because cherries. apple trees 3 For winction of the as the aple trees. . do . For your of a better tomato than Earliana Wealthy. These are both early varieties which are fairly sure of ripening a large proportion of
the crop, neen though the season may be late or

## B. C. Fruit-growing Notes.

ration for producing the best quality of bacon at
a

## whale -oil Mi uanssin Middulton

Mr. Middleton is in favor of fall spraying with
full-strength lime and sulphur solution, or doublestrength Bordeaux mixture, in prefererence to winter
or spring spraying, owing to the prevalence of hlack spot or Oregon canker, the spores of whic
mature and start to grow in the fall.

THE FARM BULLETIN.

## Winter Fair Lectures.

In connection with the Ontario Provincial Win-
ter Fair, which will be held at Guelph, December 6th to 10th, 1909 , the following programme of
practical addresses wili be given Session-Address, ", Profitable Production of Poultry on the Farm," by W. R. Graham, O. A. U,",
Guelph. Address, "'oultry Feeds and Feeding," by Miss Yates, Guelph Wednesday, December 8 th, 9.30 a.m.-Dairy
Cattle Session-Address, ". Lessening Cost of Milk Production." by Prof. H. H. Dean, O. A. I.,
(iuelph. Address, " Breed Type of the Different 13reeds of Dairy Cattle" (illustrated)-Ayrshires,
John McKee, Norwich; Holsteins, 1R. S. Steven-
som Ancaster Jerscys, IR. Reid, Merlin.

 the session-Address, "Breed Type of the Dififrent
1rceeds of Beef Cattle" (illustrated)-.Shorthorns,
Herefords, Aberdeen-Angus, Galloways-iny Prof, (I. F. Day, O. A. C., Guelph. Thursday, December 9 th, 9.30 a. m.-Horse Ses-
sion-Address, "Breed Type of the Difiterent Breeds
of Horges", (illustrated)-Clydesdales. Wm. Smith. oi Horses ": (illustrated)-Clydesdales, Wm. Smith, Hackneys and Thoroughbreds, Dr. Hugo Reed, 0 . A. .. Guelph, Standard-breds, Dr. Routledge, Lambeth, Ponies, Robert Miller, Stouffille.
Thursday, December 9th, 1.30 p. m.-Sheep Ses Thursday, December 9th, 1.30 p. m.--Sheep
sion-Address. "Breed Type of the Diferent Breeds of Sheep "" illustrated--Shropshires, Rober when
ler, Stoufiville S Southdowns, Lt.-Col. R. McEwen Buron: Dorset-Horns, R. H. Harding, Thorndale;
Leicesters, A. W. Smith, M. P., Maple Lodge; Leicesters, A. W. Smith, M. P., Maple Lodge, Hampshires, Suffolks, Prof. H. S. Arkell, Mac
donald College, (Que.
Thursday, lecember 9th. $3.30 \mathrm{p} . \mathrm{m} .-$-Swine Ses Thursday, December 9th, 3.30 p. in.-. wine ses-
sion-Address. "Breed Type of the Different Breeds of Swine"' Thursday, December $9 t h,-30 \mathrm{p}, \mathrm{m}$.-Seed Ses-
sion-Address, sion-Address, "Best Types of Finsilage Corn to,
the Various Stock-raising Vistricts of Ontario, Drtawa. Discussion, A. Mckemns, Secretary On-
otario Corn-growers' Association, Essex. Address, "Juderng Seed Fxhibits at the Winter Fair," by
 civing some practical lessons obtained from the
work in judging the fields of standing grain
Ontario, by Simpson Rennie. Toronto ; by B. J
P. E. Island Notes for November liry Rot of Potatoes-Jointworm Passing-Dairy ing and Hog-raising Expanding-sheep $\begin{gathered}\text { Profitable-Bright Outlook. }\end{gathered}$ Iter a prolonged wet spell, which made it dim-
cult to harvest the potato and root crops, we are hating now, at the midue of Nos gone right along
Indian Summer. Plowing has
till now without a break, and all fall work is well ahead. Shipping has been quite active this
month, and farmers are marketing oats and pomonth, and farmers are markctiong Oats sell at
tatoes in considerable quantities.
40 bushel. Iry rot is developing to an alarming ex-
tent in potatoes since they have gone into the are marketing them, or feeding them to cattle and hors, rather than risk keeping then ond the crop is
Wats are threshing out well, and Oats are threshing outoes in the northern and
above the average. lotato western sections are are
the eastern section are below on average. The
ens joint worm seems to be passing again, and sections
of the Island that were infected with it during the last five or six years are again growing wheat,
with fairly good success. Considerable of carcass pork is now finding a market here at about 9 cents per pound. The high prices of the
years are stimulating the bacon busines, which
s. is big money in hogs now, if properly handled. There will be more hog-feeding here than usual
this winter. Winter dairying and hog-feeding go
ind this winter. Winter dairying and hoked potatoess
well torether. Shim mik and cooke
with a little ground barley and oats, are an ideal

Winter dairying began here the first of the month, and a large proportion of the dairy com-
panies are operating butter plants. The supply of milk is quite large, and the price promises well Our largest dairy station is operating on the
cream-gathering plan, and others will soon follow. Separator agents are getting busy here, but a yet only a few farmers have purchased. last year
The make of cheese was larger than The make of cheese was larger than last year,
and is all marketed, at a price that will average
over 11 cents. Most pations' accounts will be larger than last year, though the price was a little
lower. Island crop of lambs is mostly marketed,
The at prices considerably in advance of last year, $\$ 5.00$ a cut. for the best quality, and $\$ 1.00$ to have their innings again, and at such prices are All stoch have gone into the stables in prime cordition, with plenty of feed in sight to carry them through in good shape. There will be rather more stall-feeding of beef this winter, as good
prices are expected for well-finished steers towards spring. The ram sales, held here by the Department of Agriculture, gave our sheep-breeders a chance to get good sires for ficir flocks at rea the new-seeded meadows have a good coat, of clover on them to help them been one of the most profitable that Island farmers have ever had, and
those who farm intelligently find themselves in beter condition tinancially than they ever have
been. And to all such the agricultural outlook is

## Canadian Naval Expenditure.

The navy is a new and momentous issue in
Canadian politics, and public opinion is naturally avile rice spective adiocates: legalized slaughter of human beings and the destruction of homes and property, in the name of war, and those who believe in the efficacy of arfitration as a means of settring international increasing class-are opposed to ny taxation for the creation of new navies or the Second, those who believe in the possibility of Britain's need of military and naval assistance, and are willing to do their share towards maintaining British supremnacy, sut hor expenditures dians, unimpoverished by useless war expenfectivei. to the circumstances, as they did, for example, in
the South African war. tivity is now an occasion, and whose view was Whitney, at Morrisburg, on the 26th of May, that "The proper attitude would have been cable Dreadnought, or more."
Fourth, those who hoid that Canada should Fourth, those who hold that Canada shourd
build and maintain a navy of her own, to be placed by. direction of Farliament at the service
of the 1British War Office whenever it should be $\frac{1}{1}$ shall not ask space to compare the chief obfections to each of the proposed lines of action, or even to state them. The probability is that to day no one of them is upheld by the majority
the people. The fact that the political party leaders appeared to be agreed on one of the courses may have the unfortunate effect of pre
venting the frank and full discussion of the subject in Parliament and in the press. lineral discus sion, turning, as it does, a fierce one into popular favor. If action is not postponed until after of patriotism, to be made the subject of a referendum.
The United Counties Council of Dundas, Stor mont and Glengarry, at its June sessions, made a Morrishurg, but it is reported that a petition has now been sent to the Provincial Department of Agriculture, signed on behalf of the counties coun in attendance (presumably in the agricultural class) Since the establishment of the Department, and that only for a brief period, and as they see un
reason to anticipate a betterment in this respect therefore they would 11 ike to have the agricultural department of the school abolished, and be re
liesed of the statutory $\$ 500$ krant now made compulsory under sulsection 2

Inside Information.
In these days of progressiveness and keen competition, the man who is prepared to meet any ontingency, is the less-competent neighbor. This principle holds in the farmer who knows just what to do with a poor piece of land to make it vield, is the one who is going to be a success. He has inside information, and where a neighbor is at a loss, he goes right ahead, confident of his own ability
At this age, a farmer does not need to spend his life experimenting to find out the great truths of his profession. Ail he hat he wants to know, and, besides, this gives him an interesting book, telling of the latest important events in the agri cultural world. There is only onere. It is "The Farmer's Advocate," of London, Ont. An accurate account of all the market prices from the most important centers of Canada value as an educative magazine.
as an educative magazine. ." The Farmer's Advocate " is the one who will know that his money account is large en his patronage.
for The yearly subscription is $\$ 1.50$; our clubbing
$\$ 2.25$. - The ate with that popu
iazette, Barrie, Ont.

## Road Tax for Motorists

Fiditor "The Farmer's Advocate": mohiles on Country Roads," by a Lambton County Subscriber. Is it not about time that our Government should collect a road tax from such gentry? I maintain that if a person can inves much mones so much discomfort to the genpral user of the roads, he should pay a good tax (say, at least, $\$ 50.00$ annually, and that it be increased in proportion to the horse-power of his that fifty per cent. of the wear on roads is laid to automobiles. If that is true on their macadam roads, what is the per cent. on our plain earth roads? The money collected shouties can assess his property higher. His scorching is not done there, but in the adjoining three or four autoships, which shouid receive de pay a road tax. mobile manufacturer shouch an industry, and it is impossible to drive in without meeting a machine out for testing purposes, with lowg posed, which should never be session soon. What member has the courage to introduce a motion to give his country friend assistance to alan roads, and also restore some of the lost pleasure of a drive ?
Durham

## Referendum First.

Editor premier power to incept such a revolutionary and farreaching movement as the proposed creation of a Canadian navy, without, in some way, obtainge the will of the people. Such an act is lines with Russian despotism, and not with the genius of our democracy. Separate the as much as 1 respect my party and revere my Premier, I would have to vote against party sooner Canadian a navy, for these reasons: "I believe a Canadian ferior to a policy of cultivating a goodwill among nations, as a means of protection; it would impose upon us an ever-increasingly rural classes; it would be a wrong, and a crime against a loving would be a wrong,
It were better if we devoted a small part of the sum proposed for a navy to celebrate, तive years hence. the completion of Canada's century, contentand display before the world the deve development it has insured for her. In the beginning of her era of power, let her not lose her head. The poce keep
of peace that has made her great can surely kit her great.
> J. H. S. Johnstone, erstwhile of Toronto,
, author of the well-known standara jornalist of long standing, has joined the staff of the Chicago Live-stock World, as editorial and business man-

## A Breeze from Pennsylvania.

 Editor "The Farmer's Advocate": You will please find enclosed money order of$\$ 2.50$ for the renewal of my subscription to your paper. I wish to say that it is a crackerjack; has more common sense and good reading matter to the square inch than any farm journal I take and I take a number of others. It is always delivered regularly, and we are just as regularly after it as soon as it is on deck. If you were to double the price. we would have to stay in the game, and call on you every fify-two weeks regularly, as I surely think I get my money's worth. A man doesn't have to be a farmer, stockman, merchant, or have to follow any one specialty, to get common sense out of it, as
are there with the goods, facts, and figures.
are there with the goods, facts, and figures.
I have read Sandy Fraser's notes, including his trip to Chicago, and fully agree with him when he says, "Think twice before you sell the old here in the heart of the hard-coal region, and when the mines are working everything is sympathetic and responsive. The town has twenty thousand people and all the male population can work when it wishes to, and yet there aren't two
out of ten of the men who work for wages that can pay their bills and live and keep out of
cant and it takes the best-working man in the and and it takes the best-working man in the
deountry to pay his way, raise a family, and country to pay his way, raise a family, and
either buy or build his own home, and know that either bu or his when the whistle blows and he cashes in in knowing that he doess't leave a plast
against it larger than the house.
I guess about the only trouble with all of us I guess about the only, trouble with all of us,
either on the farm or off, is, if we were to expend the same amount of stean in our own line
as we do in wondering how the other fellow does as we do in wondering how the other fellow does
it, we would surely come out on top of the heap. I had forgotten to tell you what we are en
gaged in. My father is in the fruit-and-produce gaged in. (why father is in the rruit-and-produce
business
thieste ondy), and if your farmer friends and readers will give the same attention
to details that we, or any other man who is in to details that we, or any other man who is in
business, has so give, in order to make a success bosiness, has so give in order to make a success
of it they will come out on top of the heap but but
it takes six days a week on the job. and some it takes six days a week on the job, and some-
times seven, and also includes the fifty-two weeks Well, I will pull the string, as you will think
thar in the year. Well, I will pull the string, as you will think
I am too wind to maake a stayer. or too poo
to be a doer. a bottaville, $P$

## Ontario Crops

Fall wheat in Ontario this year, according to
bulletin by the Provincial Department of Agril culture, averaged with 24.2 in 1908, and 20.8 the average pared wears. Spring wheat in estimated at 16.5
Por 28 year
bushels; barley, 27 ; oats, 33.5, as compared with a 28 -year average of 35.6 ; paes, 20 ; beans, 18.4
bushels; potatoes, 145 bushels per acre, as combushels; potatoes,
pared with a previous anneal ave acrage of 111 Mangels, 410 bushels (annual average, 458 ); sugar
meets, 853; turnips, 417, as compared with 341 maets, 853; turnips, 414, as compared with 341
in 1908 , and an annual average of 429 ; corn for
ind in 1908, and an annul. average (in the ear), as
husking. 7.1 bushels per acre (in
compared with 78.8 in 1908 , and 71 . in the ancompared with 78.8 in 1908 , and 71 . in the an-
nual average; corn for silo, 11.70 tons per acre, ay and clover, 120 tons, against 142 lea hay and clovar, 1.20 tons, against 1.42 last year
and 1.45 the annual average. The total yield of fall wheat in the Province is ispaced at t15,967,653 bushels; spring wheat, $2,223,567$ bushels; barley
$18,776,777$ bushels, and oats, $90,235,579$ bushels


Bills to Amend Railway Act. E. A. Lancaster, Member of Parliament for Lin-
coln and Niagarar, has maved in the House of Comcoln and Niajara, has moved in the House of Com
mons for leave to introuve three separate Biils amend the Railway Act. The first has reference
to section 340 of the Act, which provides that the to section 340 of the Act, which provides that the
shipper shall not be bound to accept anything less shipper shall not be bound to accept anything less
than his ordinary and actual damages, unless he
 Railway Comunission The Ontario Curt of Ap
peals has given a decision which weakens the evi peals has given a decision which weakens the ev
dent intention of the Act, and this Bill is for the purpose of having the intention of the Act made clear and distinct. The second is to limit the appeals from the Board of Railway Commiosioners. also the limi is asked for-withouthrl question of law involved mefore appeal be granted The third would throw
bell of the expense of protecting level crossings on all of the expense of protecting level crossings o
railways constructed before the passing of the Act railways constructed belore the passing or the
on the Railway Company, unless otherwise rided for by agreement approved by the Boar All of these motion

A Temiskaming Settlep's Experience.
In the spring of 1901 I came to Temiskaming
on the Ontario
Government excursion, for the on the Ontario Giovernment excursion for the
purpose of showing the farming possibilities of this district. 1 well remember this first trip to Carleton Junction, and west to Mattawa Sta-
tion on the C.P. tion on the C.P.R.. From Mattawa north a colonization railway was built along the shores
of the Mattawa River to Temiskaning Station, at the foot of Lake Temiskaming, then by boat New Liskeard was reached. Coming through hundreds of miles of very rough-looking country we arrived at New Liskeard those previous suspicions were quickly dispelled. Along the sloping banks of the lake the grass was growing luxuri-
antly, and as no rocks were to be seen, I felt that I had arrived surely in a district that would make a farming center. The next morning a party of twelve land-seekers, headed by a gulde, ravelled fifteen miles north and west from New in locating. Having three grown-up sons at home, I also located a farm for each, making four farms in all. Readers will be anxious to know
if I was deceived. In the fall of 1901 my son and I came back to start improvements, leaving the rest of family in East Lambton. The last four miles of our journey to our farms was over the trail. The jumper roads made by the first
settlers are never to be forgotten-but you get there just the same. The first winter in Temiskaming surpassed my expectations, heing one of the most enjoyable I had ever experienced. My fall of 1902 . In the spring of 1903 my boys and myself cleared about five acres of this virgin soil of the timber. The first crop I sowed was oats, on the 15 th June. With a spring-tooth harrow
my son, with a lively pair of horses, gave the my son, with a lively pair of horses, gave the
field a good stroke of the harrows. On the 16 th I sowed this to timothy. I could not at that time procure clover seed. He gave this another cultivation that field got. On the 20th August the oats measured 5 feet 11 inches, and the timothy on the same day and date measured from
4 feet 7 inches to 5 feet. The majority of the timothy stalks grew to this height right in the
thick crof of oats. On this field I have had excellent crops of hay every year since. This is We have now very good travelled roads, and instead of coming around hy Mattawa and Lake
Temiskaming, we have the Temiskaming and Northern Ontario Railwav, operated by the On-
tario Government, with trains twice daily. We raise successfully every varicty of cereals, except-
ing corn, in a most perfect maner, and all vege-
tables grow luxuriantly. All kinds of poultry do well, and our cows are producing a gilt-edge arti-

## Automobiles in the Country

The automobile season is practically over
or the year, and farmers, with their wives and daughters, may again travel on the roads without reckless person. It is a well-known fact that many chaufleurs and owners drive their machines driving horses, relying, no doubt, on their speed and the dust covering the numbers, to escape identification.
An instance of recklessness on the part of the driver which took place in an Ontario village durparty from a city some distance away came over in a car, to spend the day with some friends.
When they arrived, they leit their auto standing When they arrived, they left their auto standing
on the roadside in front of the house, without even taking the precaution to lock the engine-a
requirement of the law. The number on the ma-
chine was dull, and so covered with dust ns chine was dull, and so covered with dust as to be
scarcely visible. When nearly seven o'clock, the party started for home. Proceeding along to the
first corner, they suddenly turned into a narrow
strent street filled with vehicles bound for church, and,
although signalled to stop, proceeded on to the main street. Fortunately, no runaways occurred, doubtedly, the reason for such absurd conduct was
that they lived a long distance away and folt assured no attempt would be made to bring them Another cause for complaint by the farmer is the American tourists. From the list of permits
published last May, it is seen that nearly 50 per cent. of the licenses to run motor vehicles have bevn taken out by Americans. These heavy tour-
ing cars come over, and travel long distances, deing cars come over, and travel long distances, de-
stroving the roads in dry weather by sucking up great quantities of dust, and by cutting up the gravel in wet weather with the chains on the
wheels. wheels.
To me it appears rather unjust that we should
he required to maintain the roads for American
millionaires to destroy. I think the evil might lessened if three things were done: First, mate rially increase the cost of American licenses; second, increase the number of constables who have
authority to arrest offenders against the Motor authority to arrest offenders against the Motor Act on sight; and third, fine those prosecuted

Registration of Cheese Factories and Creameries.
The Dairy liranch of the entario Department of Agriculture, Toronto, is sending out to propriethroughout the Province a circular letter drawing attention to the fact that, after January 1st next, factories creameries and other establish ments cannot legally manufacture milk products in Ontario without being duly registered. manufacture of milk products for the first time i 1910, will require to have their plants approved of by the Minister of Agriculture, so far as equipment andised that those who contemplate the erection of factories or creameries notify the Director of he Dairy Branch, when a representative of the Department will be sent to confer with the per sons interested. A valuable service can thus be rendcred the manufacturers of cheese and butter by onsulting with them and making recommendation for the building of new factories or the equipment of old ones, It has been the policy of the De partinent to give advice as to location, equip-
ment, etc., and often serious mistakes have been avoided by following the advice of the instructors tories and creameries in different sections. These men are placed at the disposal of the dairymen o
the Province, and it is hoped the Department wil the Province, and it is hoped the Department will
have the hearty co-operation of all interested in

Dominion Estimates for Agriculture.
out of a total of $\$ 127,670,993$ asked for in the estimates of the Dominion Finance Mmister, Hon statistics is $\$ 1,114,000$, being an increase of $\$ 165$,for the establishment and maintenance of $\$ 25$ ranch For the Census and Statistics 13 ranch, and $\$ 5,000$
for experiments in cold-storage of fruit. The im migration vote remains substantially the same, at
$\$ 915,801$. The estimates call for a new item, in the
also $\$ 27,000,000$ for the National Transcontinental

New Deputy Minister of Agriculture for B. C.
R. M. Palmer, Deputy Minister of Agriculture Scott, of Salt Spring Island, is his successor. Mr. industry, and while he occupied the position of much of the rapid progress of the fruit industry of
the Province is due to his efforts. It is his intention to devote his entire efforts to practical work grower, and held Mr. Scott is a successful fruit Brandon Fair Dates
The management of the Interprovincial Fair, at
13randon, have selected as dates for the 1910 exhoition, July $25,26,27,28$ and 29.

Intes have been set for several inportant agri-
Cultural events, which will be held during the ng winter in the Province of Alberta. vear. will be held in Edmonton on February 2nd rd and 4th. During the same week, on February Association will be held in Fimonton. This latter association has been put entirely in the control of the farmers of the Province, who have an efficient

## H. H. Miller, M. P. for South Grey, has moved

 Code respecting the matter of race-track gambling Soumblemennovember 25, 1909
THE FARMER'S ADVOCATE.



A More Beautiful Canada.
of unselifishness, a doing of things
for the commou good there is hy
work that redounds more to persomal
tario Horticultural Assonition, City
Hall, Toronto, November gth and 10th.।
 noted developer of the gladiolus, gave an interesting scientitite dissertation
on "The Physical Disintegration o
or Natural Iheath
 the about death Natural death is a
phenomenon in the nature of an or phenomenon in the lature of an
ganism those deaths due to exter-
nal accident or disase should not be or three shrubs and a clump of holly orns may a a hing of be
the slirubs are doted lawn, and the holly hoocks planted the We went down to the Fourth An-
nual Convention of the Horticultural nual Convention of the Horticultural
Association this year filled with the intention of keeping a weather-eys
open for those points, and those points onty, which might bar upor
poe welfare of the farning cominum
int the welfare of the farning commun-
ith. Upon this occosion, however,
Uper papers that had any direct relation to the farming districts. The City
Beautiful, the Town Ieautiful, the coal-bed waterrront the quento, an
the carelessness of theen city in fighting weed and insect pests, the
care of parks in general, and the especial advisability of preserving the natural beauty and adding to the
scenic effects of Queen Victoria Park
Vina scencic effel
Niagara boulevards: the work of the
in distributing flower seeds Ir dilstributng flower sedts to the
railway stations the tutilization os
the vacant town for for vetabes
flowers and fruits; these and a host flowers and fruits, these and a host
of similar questions were brought up of similar questions were brought us
and discussed at this very enthusias tic convention, but of country roads,
country homes, scarcely a word.
Yet, how could this be otherwise
At the Horticultural Convention At the Horticullurarlianvention, as are scarce as hen's teeth. There was
not, we believe, event single, soli-
tary tarmer ammont either sponker tary farmer among either speakers or
audience, unless, indeed, the
alert
arepresentative of the Hort. teral Deparestment at the Central Ex
perimental Farm, Ottawa, Professor
per Macoun, and the worthy Superinten Lockie
catego
Dig cow, there wero several seats in the big court-room at the City Hall-a
least half a dozen of them-quite
empty, and by reason of them, litt wonder was it that the questions
that kept intruding themselves upon him that gives and him that takes. and sets a wind clematis clambering
over the fence :
even the passing over the sence even the passing
stranger is cheered thereby
 $\qquad$ Aud now to our notes. They were caused by this physicul effort can be all there, the old reliables of the Hor- turity of ofom and sed-raising, as
ticultural Association, and a iew new when the gladiolus is cut immediately ones- the retiring President, Wajor Snelgrove; Mr. ILockie Wilson, the
Secretary; Messrs, Cowan, and Groft Jaffray, of Caitt: Prof. Hutt. of thi of London, Burgoyne, of St. Cath
arines Rev, M. H. Scott, of Perth and many others. Mr C. C. James
Depputy Minister of Agriculture. found
tion time for a call and a short address. The President, in his opening advarious branches of the Association. denounced the bill-board nuisance cone which is not. unfortumately,
conined to the tounn- - .f.) and de
clared his conviction clared his conviction that the man
who holdis a lot in wreds and idllenass should be taxed to the limit. II (the President, was in favor of
Henry-Ceorgeism and iloval-cerpere-
ism, in so far us it applics to such cases. The culture of flowers, as a
refining influence, should be encour aged and the covernment should be asked to reduce the duty on flowering
roots. would recommend the procuring of ${ }^{n}$
pamphet.
hy by Prof. Muccoun, which might be got
by applying to the thepartment of
of our list oi ornaumental and useiul plants might be greatlv increased by
 had found alfalia growing on the
Great Wall: walnuts with thells thin as paper; wheat, barles, pears and
plums, all inured to the severe clihorticultural societies of their own ?"
with a separate eonvention, if need
be, to consider especially the questions that pertain o the heanurifu-
tion of the rural districts. mate of the northern provinces; seed
question of a morer beautifu Can the
as these city men are so effectively
as
beginning to do? Has ot the timie
arrived when the Canadian farmer
$\qquad$ can no longer roing forth the plea of ing the past sear filed its upplication from such deliberations the the time
saving of modirn machinery must
 armers, by united elfirt, and by
expenditure of a litule time each year
accomplish tremet accomplish tremendous results in $r$ r
moving from our splendid country the appearance of crudeness and uglines
-y.es, plain downright "ugliness ".
so invariably notical hy
from Furopean lands, or by those of of
our own who have been tortunat
enough
abroad ? $\qquad$
$\qquad$
$\qquad$





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 or to hide a vegetable garden. Three
shrubs she would recommend are the Persian lilac, Rugosa rose, and
ipirea Van Houteii. Among vines Spirea Van Houteii. Among vines,
Wild Clematis, Bittersweet, Moonseed and Tirginia Creeper are all good, Honessuckle and Trumpet Vine prefer sunny spot. The scarlet Runner tium and Morning Glory should have plants look best where they do bestPoppies in a sunny spot; Iris near
a pond or streany filies in partial shade, with a background of shrubs,
etc. (ive ui) straisht lines for boretc. (iive up straight lines for borlake, with an irregular shore line. A
beautiful garden may be had with but ge studies the efiect of shrubs plants Qne studies the ellect of shrubs, plants
and trees, using the sturdier plant
 sturdy lilac, the Lady Birch as a
$\qquad$
 Stonecrops, ete, to cover bare-
ground patches between taller plants. A straight path may be made attracwhile a pond at the end of a garden
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H'lenty of vines and shrubbery will often make the diference letween a house and a home. Vines should not, however. and lankleek Hill, where some of the that is necessary to do is to send a work of the American Civic League, at lankleek Hill, where some of the that is necessate chemist at the Ex-
which has extended its interests until most energetic members are farmers, pint of it to which has extended its interests until most energetc members are ficultural perimental Farm, Ottawa, where
it embraces national questions, such He suggested that rural hort it embraces nation of natural re- societies might very well affiliate with will be examined
as the conservation or
sources, the building of great high- the Women's Institutes. sources, the building of great high- the Womens institutes.
ways, establishment of national Mr. Jones, of Brantiord, advised parks, etc...Every town, city and individual work. Some one must vilage is in need of improvement. start, and carry a campaign through, unkempt lots everywhere ; trees are to achieve results. He beneved that too many or too few, and too often ing seeds to schools, and encouraging the waterfront is a mere dumping- fall fairs and flower shows. The love
place, a river and sewer combined. These conditions are as prominent in chance. He believed, as Rev. A. H. the country as in the city. Even Scott had said in the morning, that
the very water supply of the country the very water supply infection and that the love of them raises a man $\begin{array}{ll}\text { is ofter sores } \\ \text { disease. Typhoid fever has often } & \text { morally.," } \\ \text { been traced back to country wells } & \text { Mr. Whyte observed that, in case of }\end{array}$ been traced back to country wells
that have been used for watering
organizations are needed, and one of their first concerns should be to urge stable sanitation and care in regard to the
water supply Convenience of conwatruction of the dwelling-house, too, is a factor too often lost sight of in the rural district; saving steps to lessen labor is a possibility the garden
overlooked. A taste for the gital overlooked. A determination to have a sanitary and convenient home, should be promoted in the rural
There must be a beginning; let us There must be a beginning,
find the individual in a community, and use him as a germ to leaven the whole sixty years ago, a man of
culture and training. and with a culture and training and with a
love for flowers. settled in a certain love for flowers, set in New York State.
backward locality in To-day, as a direct result of his influence, that locality is noted fores, beautiful lawns, comiortable cheerful citizens.
and Prof. Craig then referred to cheap vaudeville and moving-picture shows in small towns. As a rule, the civicnot uplifting. suph problems. After all, the man who is going to do the best wnork as the one who looks one one who un-
one of service... The selfishly gives " himself" is the one who makes for leadership in the Mr. In the discussion that followed River Improvement Association, which has Improvement An unite Brantiord, Par-
heen formed to
is Galt, and other towns, all the way is. Galt, and other towns, alt the for up to Fergus. in (irand River, the raising of the
waste lands, etc.


A Beautiful Farm Lan
Mr. Whyte said he had been struas
roughness, and for the direction which
the trained physical-culturist can ge trained physical-culturist can
give in developing the body properly
through sports and gymaastic exerthrough sports and gymnastic exer-
cises. Play should be encouraged in
children. The impulse to it is as childre natural as to eat or sleep. Before the meeting adjourned, Rev.
A. H. Scott displayed before the A. H. Scott displayed before the
mambers a handsome silver cup, bought by the St. Catharines Horti-
cultural Society as a trophy to be cultural Society as a trophy to be
competed for by the various societies, competed for by the various societies,
and which is to become the property
of the first society winning it twice and which
of the first society winning it twice
in five years, the competition to be in cut-flowers at the Niagara Distric
Exhibition in September of each year Exhibition in September of each year. Car been appointed to select the
fowers for competition in 1910. This fowers for competition in 1910. This
report was now read, viz.:

$$
\text { Asters- } 50 \text { flowers in } 5 \text { vases. }
$$

$$
\begin{aligned}
& \text { Asters- } 50 \text { flowers in } 5 \text { vases. } \\
& \text { Gladioli- } 50 \text { flowers in } 10 \text { vases. }
\end{aligned}
$$

$$
\text { Gladioli- } 50 \text { fowers in } 10 \text { vases. } 4 \text { vases }
$$ Hydrangea-3 flowers in one vase Phlox Drummond-5

vases.
Stocks- 12 flowers in 3 vases. It was advised that entries be made
at an early date, and universal ap at an early date, and universal ap ciety's initiative and generosity was expressed
A no less pleasant episode was the presentation to the Secretary, Mr. J.
Lockie Wilson, of a handsome Crown Lockie Wison, of a handsome Crown
nerby tray, encircled by a band of sterling silver, the address of presen-
tation being read by the retiring tation
Presiden Preside
bourg.


Hope's Quiet Hour.
Thou Meetest Those That Remember Thee.
Thou meetest him that rejoicest and
 I have not received nearly as many answers as 1 expected
whether the farmers of
whether the farmers of to-day were less
interested in relligion than thoso of thirty intearested ago. However, thuse who have answered do not seem at all pessimistic. A Presbyterian minister am a Western man, andthantario, 1 am mocinod to thint

THE FARMER'S ADVOCATE
 gained admiration which was undeserved
-that is failure. If we have really re-
joiced at another's success-that is sucThe prophet says that God "meetest"
those who rejoicingly work righteousness those who remember Him. Wbat joy can
and who remen
be found in those meetings? On the first running on their Lord's elrand, with fear
and "great joy," when He met them. saying th hail! He has not changed
in all the centuries since. Still He
stands in the way stands in the way, to meet and reveal
Himself to those who consider it their highest privilege to serve Him. In the paratre of The grodigal son
the elder hroother was angry lheause he
thought his lirother hatl heen having al ing the tiresome hommork to do.
of sharing all his father
And so have we. Never
$\square$ imagine that those who plunge recklessly
into sin are having a "good time." The way of transgressors is "hard," and not at all a way to be desired. If you
would like to be a prodigal, and are only kept straight by the fear of conse quences, then you are not likely to meet God while you do your daily work. He
meetest one who "rejoiceth" and work meetest one who "rejoiceth" and work
eth righteousness, one who says, like a eth righteousness, one who says, like
servant of old to his master, "' "will not
go away from Thee". hecause he loveth go away from Thee"; because he lovet
his Master and his Master's house, and his Master and his most desirable plac
feels that it is the moser

Surnal. Her book is a series of chapspiritual, wholesome and helpful through-
out. Religion is shown to be a definite relation to Jesus Christ, which transforms and ennolles life and all its relathing; the Vision of His Face is a poscommon experience of life. We need very often to be reminded of that fact, and our author has rendered us a real seri-
ice in helping to 1 ring relifiton close

The Roundabout Club

$$
\underset{\text { Eppoltor " Hime Farmer's Advocate" }}{\text { apor }}
$$

$$
\begin{aligned}
& \text { Quiet Hour" in your paper, } \\
& \text { statements under the heading, } \\
& \text { ling Change," and desire to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { opinion on the subject. } \\
& \text { In regard to the decline of attendance } \\
& \text { In }
\end{aligned}
$$

$$
\begin{aligned}
& \text { In regard to the deline of attendance } \\
& \text { of church and reading among farmers, it } \\
& \text { is true that, to a great extent, man }
\end{aligned}
$$

$$
\begin{aligned}
& \text { lives far behind his privileges wherever } \\
& \text { one may find him, in either town or }
\end{aligned}
$$

$$
\begin{aligned}
& \text { country. } \\
& \text { Times do not demand. the long-distance } \\
& \text { drives, the churches being more numerous }
\end{aligned}
$$

Reopening of the Liter-
$\qquad$ mile drive to church, while the t
citizen, living but a block away
$\qquad$
$\qquad$

term it, of to-d -in music, as one m
slow, drawling singing. The town minments, so town and country fared muchalike.
The tarmer of to-day, instead of
noBrowning himselt. $\begin{aligned} & \text { of the work done } \\ & \text { upon "Rabbi Ben } \\ & \text { Ezra,", }\end{aligned}$ our readers

The statement made in rearad to the
buying of reclikious books may bo true.
iut, by the time he has road the chur
prper s. Sundue

Tount he tiews, or from what ho reads.
$A$ cultured persson, no matter it ha


Marly trying winter fresher mentally than
I have been for years. I shall look
forward with eagerness and eathusiasm

Yet another wrote:-"I think I wished
Uurther take win the disusseon and try


triy agen in Irealie that the study

$\qquad$

#  

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ studied before-at my daily round of
duties-a farmer's wifo with two small children has very limited opportunities
for study ver thank the Literary So-
ciety for bringing me throuch a
$\qquad$

Thore was a letter fron
Milla," of Quelec Prov
other from "Fair, tho' Fent
$\qquad$ in '"The Farmer's Advocate,
 pecultarly dillicult circumstances. 1.ike Greene, the historian, she carried on her
work whle enduring severe bodily suffer
ink, and it was not until the ing, and it was not until the season
was over, and her prize had been won. that sho wrote us in regard to her con
dition. We feel sure that we may here
ind now, convey to her the sympath dition. We feel sure that we may here
and now, convey to her the sympath
and warmest regards of this Society.
There is unother announcement whic There is whother announcement which
W. make with proftuudedest re-ret, name-
Iv. the death of Mr. H. J. Brillinger.


Our Plan for the Coming Season


Ragged Rapids, on Severn River, near Orillia
Essay on the Fall Fair, and How are bullding the factory up again, an prove 1t. cellowing: caper. Eaton's factory, which was My Library. ${ }_{\text {Descriptive }}$ Essay on Spring. wild Birds: Their Relation

$$
\begin{aligned}
& \text { Frogs and Their Habits. } \\
& \text { Humorous Essay oo Weeds. }
\end{aligned}
$$

The Rural School Teache
Write these essays whenever you have
he inspiration, but do not send them

For Housekeepers.
$\qquad$ send us subscriptions for one or more of the one of the following: 1. One kitchen set
knife, butcher knife, sharpening steel, cake-beater, paring knife, and griddle
(iiven to every present cake turner. (iiven to every present
suliscriber who sends one new subscription to "The Farmer's Advocate," for
one year, at $\$ 1.50$. 2. Three pairs scissors-cutting shears,
embroidery scissors, and buttonhoh, scissors-to every present subscriber whi
sends us one new subscription, as athove
$\qquad$
$\qquad$

The Beaver Circle.
(All children in second part and second ouks, will write for the Junior Beavers books, also those who have left school or are in High School, between the ages of 11 and 15 , inclusive, will write for
Senior Beavers'. Kindly state class at school, or age, if you have left school. in each letter sent to the Beaver Circle.] Dear Bcavers, please read the above
notice, which will be kept standing each week. We have come to the conclusion that the plan is a more fair one than

## Our Letter Box.

$\qquad$
people prefer to buy the materials all
ready for use.
If, however, you wish to make the mixIf, however, you wish to make the mix-
tures yourself, you might try the following, taken from Scientific American. The processes seem rather tedious, and of course, would require great care, and glass. Have you a red lantern? For blue prints-Float the paper for
Ferricyanide of potash.........
Water

Dry it in the dark room and then ex pose bencath negative until the dark
shades have assumed a deep blue color shades have assumed a deep blue color, Water $\ldots \ldots \ldots \ldots . . . . . . . . . . . . . . . . . . . . ~$
Bichloride oz. ash the print, and then immerse in a Oxalic acid .................. 4 drm.
$\qquad$
A Sensitizing Solution for Paper:Nitrate of silver, 6 parts;
maitrapesia,
mats
parts;
distilled
water,
 sheet in this solution, 1 drm. of a one per-cent. solution of nitrate of silver
should be added to the bath for every 100 square inches of paper sensitized. I, too, nm an amateur in photography. Milton. If you send us one of your Photos for our Circle, 1 will have one of
mine printed, too. is that a bargain
[Here is a letter that came in June,

$$
\begin{aligned}
& \text { but missed its turn, somehow. It is } \\
& \text { very interesting. Perhaps Ethel will tell }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ery interesting. Perchaps } \\
& \text { us how her woodchucks now.] }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Dear Puck, - I have becoune so inter- } \\
& \text { ested in the letters of this Circle that } I
\end{aligned}
$$

$$
\begin{aligned}
& \text { thought I would write one, too. } \\
& \text { One day, over a week ago, one of my }
\end{aligned}
$$

$$
\begin{aligned}
& \text { One day, over a week ago, one of my } \\
& \text { brothers found two little woodchucks }
\end{aligned}
$$

$$
\begin{aligned}
& \text { which were nearly dead. He brought } \\
& \text { them to the house, and, after giving }
\end{aligned}
$$

them to the house, milk with a spoon,

$$
\begin{aligned}
& \text { them a little warm milk with a spoon, } \\
& \text { we put them in a box beside the stove, } \\
& \text { We fed them with a spoon for a few }
\end{aligned}
$$

$$
\begin{aligned}
& \text { days, but they son learney to aillink } \\
& \text { milk themselves, and now they will eat }
\end{aligned}
$$

$$
\begin{aligned}
& \text { milk themselves, and now they whe eat } \\
& \text { clover or anything they find They are } \\
& \text { not much larger than a squirrel, and are }
\end{aligned}
$$

$$
\begin{aligned}
& \text { clover or anything they find. They are } \\
& \text { not much larger than a siuirrel, and are } \\
& \text { a brown color, mixed with gray. They }
\end{aligned}
$$

$$
\begin{aligned}
& \text { They } \\
& \text { a brown color, mixed with gray. } \\
& \text { are very fond of sugar, and, if given a }
\end{aligned}
$$ are very fond of sugar, it in their front

lump, they will hold it in paws, and sit up to ent it.
wishing the Circle success. Duniston, Ont. ETHEL TAYLOR. Dear Puck,-I thought I would write Dear Puck, -1 h have a little story I
to you again. I have
wrote myself for you, so I guess I had better not take up too much room with
other things. The name of it is, "Our ther things. The name of it is, "Our
imuliem, the Beaver." Emblem, the Beaver."
When the knights of France or England
used to go to war, they wore on their used to go to war, they wore on their
arms or banner, an emblem or mark. Which told to which army they belonged. Fach country has its own emblem, as the
Russian Bear, the British Lion, the
American Eagle, and the Canadian Bea-

$$
\begin{aligned}
& \text { ver. } \\
& \text { Long ago, when the first settlers came } \\
& \text { thev found thousands of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Long ago, when the frst settlers came } \\
& \text { to Canada, they found thousands of } \\
& \text { heavers. When they found out that the }
\end{aligned}
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\begin{aligned}
& \text { beavers. Wins made warm caps and other } \\
& \text { beaver star }
\end{aligned}
$$

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\begin{aligned}
& \text { warm garments, they started to trap } \\
& \text { them, and send the skins to France. }
\end{aligned}
$$

$\qquad$ articles began to think of Canada as the Lhe beaver was chosen to be the emblem of Canada.
The beaver is about three feet long. counting the tail. Its nose is round and blunt, and there are four long, sharp
teeth in the front of its mouth. It has very small ears. The front feet are short, and are sometimes used as hands.
while the hind feet are longer, and have whbled toes, which make them good paddles while in the water. It uses its tail as a rudder. Its tail is not covered
with soft fur like the rest of the body, with soft fur like the rest of the

$$
\begin{aligned}
& \text { but is covered with black skin. } \\
& \text { The beaver chooses a place where there } \\
& \text { is water for its home. If the water is }
\end{aligned}
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\begin{aligned}
& \text { is water or it home. If the water is } \\
& \text { not deep enough, it cuts down trees and }
\end{aligned}
$$

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\begin{aligned}
& \text { not deep enough, it cuts down trees and } \\
& \text { makes a dam. It nibbles a ring of bark }
\end{aligned}
$$

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\begin{aligned}
& \text { makes a dam. It nibles a ring of bark } \\
& \text { of all around the trunk of a tree, and } \\
& \text { and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { off all around the trunk of a tree, and } \\
& \text { then gnaws and gnaw, till the tree } \\
& \text { falls. It cuts off all the branches with }
\end{aligned}
$$

its teeth, and then drags the parts down mat
out of these pieces, and mud and stones.
Beavers always build in company, and each teaver helps the others. One beave
acts as sentinel, and, if there is any danger near, he slaps his tail on the
water, and all the other beavers go to a place of safety.
a place of satety.
The Indians believe that there were once giant beavers, which curried the nud to make the mountains. They be-
lieved that they had the power of speech, but when Goo created man, He took
away that power from them, and made them smaller, so
$\qquad$ ada, because Canadians want to be in Rrussels, o
Rrussels,
rude. Dis a very good composition, Ger-
trude. Don't you think we chose a good
name for our Circle? If we could al
be as busy and helpful as beavers-eh?

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Our Next Competition sou write a letter for us, teling why
you telieve so. If possible, tell a story
about your own dog, or some dor the you have known, to show that he usel
thinking powers. Tell how a dog shoul lor him, etc. If you ev
house, tell how you did
Prizes will te given for the best letter
Send all letters so that they will rea us within two weeks of the date upo

to address

Picture Compe氏ition.
The Golden Dog

## Le Chien D'Or.) <br> A Camaftian Historical Romance

Copyright, 1897, by L. C. Page \& Co. (Inc. [Sertiai Plighta Secured by the Wrw. Weid Co., Ltid

Chapter xlil.-Continued. They sprang forward, and each
seizing a lamp, the two men rushed seizing a lamp, the two men rus
into the narrow passuge. It
dark and still as the catacombs. into the narrow passage
dark and still as the catacombs. No
trace of anything to the purpose trace of anything to the purpose
could they perceite in the vaulted subterranean way to the turret.
They speedily came to the other They speedily came to the othe
end ; the secret door there stoo ond, also. They ascended th
open, ans in the tower, hut could see $n$
stairs trace of the murderers. "It is use
less to search further for them at this time," remarked "adet ; pe haps not safe at any time, but
would give my best horse to lay would give my best horse the ment."
Gardenens' tools lay around the

## 

slender form in their last windingsheet. 13igot was overpowered with
his feelings, yet strove to master his ieelings,
them, as he gulped down the rising
in his throat which at times almost in his throat which at times almost strangled him.
Cadet, eager to get his painful task Cadet, eager the slender finger of over, took from the slender finger of
Caroline a ring, a love-gift of ligot, and from her neck a golden locket containing his portrait and a lock of
his hair. $A$ rosary hung at her waist ; this Cadet also detached, as a precious relic to be given to the
Intendant by and by , There was one Intendant by and by. There was one
thread of silk woven in the coarse, thread of silk woven hempen nature of down and gave her pale lips and eyes, which he had tenderly closed, a last despairing kiss,
before veiling her face with the windbefore veiling her face
ing-sheet as she lay, white as a ing-sheef, and as cold.
snowdrift,
Thev wrapped her softly They wrapped her softly in the
hlankets, and without a word spoken,
lowered the still, lissome body into lowered the still, lissome body int


Iy as she had come, and no further mquiry would be made after her. In It was necessary for (adet and got now to depart by the secret pas sage to the tower. The deep-toned ". .or the chateau struck three. " We must now be gone, liigot, and instantly," exclaimed Cadet. "O ()ur night's work is done! Let us see
what day will bring forth! You must see to it to-morrow, Bigut, that no man or woman ative ever agam enter Cadet fastened the secret door the stair, and gathering up his spades and bar of iron, left the chamber with Bigot, who was passive as a turned round and gave one last rowful look at the now darkened loom as they left it. Cadet and he They sallied out into the open ain which blew fresh and reviving upon their fevered faces after escaping from They proceeded at once towards Bigot felt deadly faint and halted under a tree, while Cadet rode back to the porter's lodge and roused up brandy, if he had any, "as of course
he had,", said Cadet. " Brandy was a gate-porter's inside livery, the lin-
ing of his laced coat which he always hich he didet assumed Marcele, fortunately, could oblige ivery a little, but lightly, as his out a bottle of cognac and a drink. It is to keep us from catching cold!" continued Cadet, in his pe-
culiar way. Is it good?".
placed the placed the bottle to his lips and
tasted it. Marcele assured him it was good as " Right !" said Cadet, throwing the bottle to the Intendant to keep Marcele, you keep your tongue still, or else- Cadet held up his night! '" rejoined Iligot. Cadet had a crafty design in this
proceeding. He wanted not to tell Marcele that a lady was accompany-
ing them ; also not to let him perbut one. He feared that the old porter and Dame Tremblay might
possibly compare notes together, and ine had not left Beaumanoir with Bigot sat faint and listless in his
saddle when Cadet poured out a large
unful of brand and ofered it him. He drank it eagerly Cadet
hen filled and gulped down a large upful himself, then gave another to and another ore himserf, until, he omfortable. und got the damnable
aste of gravedigging out of his The heay draught when forced the Intendant to take relieved him somewhat, but he groaned inrespected his mood, only bidding him
ride fast. Thev spurred their horses, and rode swiftly, unobserved by anyone, until thes entered the gates of The arrival of the Intendant or the timely hour of the night excited no remark whatever, for it was the rule,
rather than the exception with them Dame Tremblay was not surprised empty and the lady fone. /" He is a wild gallant, is my master : No when T was the (harmine Jeauport and all the world ran after me. But serret I must keep at any rate, hy rather die than order, and I would rather die than he railed at by that
fierce Simur fadet I will keep the
intemdant's secret safe as my teeth


ID YOU EVER FIGURE THE COST of a single day's baking - the material, fuel, time and labor-and consider that it is all wasted if the baking is a failure?

Is it economy, then, to use a flour of uncertain quality when a few cents more will buy

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ORME
Ottawa,
Ontario.
ELECTRO BALM ECZEMA

 IInds and Face. Write for sample and

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Aberdeen-Angus Cattle- Siock all agees

$\left\lvert\, \begin{gathered}\text { Had it brought a certainty, this } \\ \text { crimee, then-why, then-she had found } \\ \text { a compensation for the risk she was }\end{gathered}\right.$ a compensation for the risk she wa
running tor the pain she was endur
ing, which she tried to believe was ing, $\begin{aligned} & \text { regret and pity for her victim. Her } \\ & \text { and }\end{aligned}$ anxiety redoubled when it occurred to
her that Bigot, remembering her pas-
sionate her that Bigot, remembering her re-
sionate appeals to him for the re
moval of Caroline, might suspect her of the murder as the one alone hav
of a palpable interest in it. ing a palpable interest in it. even in he suspect it exters.
at last, shaking off her fears.
have have made fools or many men (ne
my pleasure. I can surely bind (ne
for my safety. and auter aild whe
 fault is it but
not grant me the lettre de cachet, ror
keep his promise for her removal. He
 even gave me her life! But he iea,
he did not mean it. He loved her
to he did not mean tiant to deceive me
too well, and meat
and mary her and thave deceived ana marry her, marry him, that
him and shall mave
all all! !" and Angelique laughed a hy
sterical laugh such as lives in his sterical laugh, such as gives in his
torments may sometimes give way to.
II L.a Corrivenu has betrayed her trust in one terrible point,", continued she " she promised a death so easy
that all men would say the lady of
thaunnanor died of heartbreak only, Beaunanoir died of heartbreak on
or by God's visita tion
deat ant
deat death! The foul witch has used her
deatiletto and made a murder of that
stan stiletto and made a murder of that
which, without it, had been none
bich which, will know 'it, must know it,
Bigot will
even if he dare not reveal it ! for how even if he dare not reveal it ! for how
in the nome of all the saints is is to
be concealled ? be "Buceated $m$, God! this will never
do !", continued she, starting up, "I look like very guitt !" She stared
fiercely in the mirror at her hollow fiercel,
eyes, pale cheeks, and white lips. She
eje eyes,
scarcely
and recognized herself. Her bloom and brightness had vanished for the
time. "What if I have inhaled some ed
the poisoned odor of those cursed roses ?" thought she shuddering at
the supposition; but she reassured
the sith herself that it could not be. The pale
my looks condemn me my looks condemn mire is looking at
face of that dead
me out of mine
Iisot. if he sees
me me, will not fail to read the secret
my looks.,
she glanced at the clock; the morning was far advanced towards noont
visitors might soon arrive;
bigot himself micht come: she dare not
deny
derself to to him. She would deny herselt to no one to-day she
would Ro every were and see every
body and show the world if talk of it should arise, that she was wholy
innocent or that kirl's bood
she would woar her brightest looks, She would war her brightest looks,
her gavest robe, her hat and feathers
the newest from Paris.
ride out into the the the
 had not a care or trouble in the
world
she rang for Fanchon, impatient to
to conmence her toilet, for when dressed
she knew that she $\begin{aligned} & \text { ould } \\ & \text { feel } \\ & \text { like herself once more. cool and do- }\end{aligned}$ de like herself once more, cool and de-
The tount of her armor of
fashionable attire would restore her
ture confidence in herself, and emable her mind of the Intendant-at any rate,
it was her only resource, and Angelique was
lost battle, let alone one half gained
the through the death of her rival.
Fanchon came in haste at the summonon of her mistress. She had
lons waited to hear the bell, and be long waited to hear the her in one of
tan to tear she was s.ick or in
those willd moods which had come over her occasionally since the night
of her last interview with Lee Gur-


$\qquad$



Do You Want to Save \$62 a Year? You must pay the wabberwomen
 more than 15 cents an hour in the
It takes eight hours' hard labor to
do the average lamily wash.
 This means 86.40 per year, without
rockining fuel tor froe, or wear on
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saves you, say 50 conts per week, $t i 1$ the Washer io paid lor
 Every year our Wasber will save you about 882.00 . Yot the " 1900
Gen
Gravity
 Could we rigk the freight, both ways with thousands of pooplo if wo did not
know our . 1900 Gravily, Washer would do all we claim for it ?

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Therefore WRITE TU-DAY, while the offer is open, and while you think Address me personally for this offer, viz.: F. A. Y. BACH, Managor The
The above offer is not good in Toronto or Montreal and suburbs-

## More bread and Better bread

## -And the Reason for it



NOVEMBER 25, 1909

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|  |  | wondering if Fanchon had conjectured "They say she has dealings with that horrid Mere Malheur, and I be-

lieve it," replied Fanchon, with a shrug of disgust.
"Ah! do you think Mere Malheur knows her business, or any of your
aunt's secrets, Fanchon ?" asked Angelique, thoroughly roused. " I think she does, my Lady-you
cannot live in a chimney with another without both getting black
alike, and Mere Malheur is a black alike, and Mere Malheur is a black
witch as sure as my aunt in a white
one," was Fanchon's reply. "What said your aunt on leav-
ing ?", asked her mistress.
" I did not see her leave, my Lady; I only learned from Ambroise Gari-
epy that she crossed the river this morning to return to St. Valier."
"And who is Ambroise Gariepy, Fanchon? You have a wide circle
of acquaintance for a young girl, I think!', Angelique knew the dan-
gens of gossiping too well not to fear "anchon s imprudences.
"Yes, my Lady," replied Fanchon,
with affected simplicity, " Ambroise iariepy keeps the Lion Vert and the
ferry upon the south shore: he brings erry upon the south shore; he brings
ne news and sometimes a little presme news and sometimes a little pres-
ent from the pack of the Basque ped-lers-he brought mee this comb, my to show her mistress a superb comb
in her thick bluck hair, and in her ner her thick black hair, and in her
delight of talking of Ambroise Ga-
riepy, the litlle inn of the ferry, and lhe cross that leaned like a failing wife, Fanchon quite forgot to ease
her mind further on the subject of La
Corriveau, nor did Angelique resume Corriveau, nor did Angelique resume
the dangerous topic. Fanchon's easy, shallow way of pathetic chord in the breast of her
mistress. (irand passions wer grand follies in Angelique's estima-
tion which she was less capable of appreciating than even her maid
but firtation and coquetry, skin-dee only, she could understand, and rel It was just now like medicine to he racking thoughts to listen to Fan
chon's shallow gossip. She had done what she had done, done! why should she give way to
regret, and lose the prize for which would not do it! No, par Dieu fishes for the sake of the Intendant, and had done that other deed it as
shied off from the thought of and began to feel shame of her weak La Corriveau. dressing the long golden hair of her mistress, and assisting her to put on a new riding-dress and the plumed
hat fresh from Paris, which she had
not yet displayed in public, did much not yet displayed in THer face had, however, not recov-
Herd from its strange pallor. eager maid, anxious for the looks of
rouge, which Angelique's natural
bloom had never before needed. She bloom had never before needed. She
submitted, for she intended to look submitted, for she intended to look
her best to-day, she said. "Who her best to-day, she said. "' W "That is right, my Lady," ex-
claimed Fanchon, admiringly, "no one claimed Fanchon, admiringly, "no one
could be dressed perfectly as you are and be sick ! I pity the gentleman you meet to-day, that is all! There is murder in your eye, my Lady !' Poor Fanchon believed she was only
complimenting her mistress, and at other times her remark would only have called forth a joyous laugh. She pushed her maid forcibly away from her, and was on the point of
breaking out into some violent exclamation, when, recalled by the amazed look of Fanchon, she turned the subject adroitly, and asked, "Where is my brother?" the Palace, my Lady !'" replied Fanchon, trembling all over, and wondering how she had angered her mis-
tress. "How know you that, Fanchon?" asked Angelique, recovering her usual careless tone. gether, my Lady The Chevalier de
Pean said that the Intendant was sick, and would see no one this morn"Yes, what then ?" Angelique ness of danger in the wind. "A Ar you sure they said the Intendant was
sick ?" asked she. sick ?" asked she
"Yes, my Lady ! and the Chevalier De Pean said that he was
less sick than mad, and out of huless sick a degree he had never seen
mor to a deg
him before !" " Did they give a reason for it?
that is, for the Intendant's sickness or madness?" Angelique's eyes were
fixed keenly upon her maid, to draw out a full confession.
None, my Lady, only the Che valier des Meloises said he supposed
it was the news from France which sat so ill on his stomach." are so long of answering! Ange
lique stamped her foot with in patience.
Fanchon looked up at the reproo so The Chevalier de Pean said it must be that, for he knew of nothing else
The gentlemen then went out and The gentlemen
heard no more."
Ancelique was relieved by this turn of conversation. She felt certal
that if Bigot discovered the murder that if Bigot discovered the in the the
he would not fail to reveal it oo Chevalier de Pean, who was under-
stood to be the depository of all his secrets. She began to cheer up Under the belief that Bigot wourd never dare accuse anyone of of pro-
which would be the means of claiming his own falseness and du-
plicity towards the King and the Marquise de Pompadour.
. I have only to deny all knowledge of it," said she to herself, will not dare to go farther in the matter. the tables upon him in a way he little expects! Pshaw ! $\quad$ con-
tinued she, glancing at her gay hat In the mirror, and with her own
dainty fingers setting the feather more airily to her liking. "Bigot is bound fast enough to me now that I hold his secret,. ${ }^{\text {, }}$, will not
dare meddle with mine." Angelique, measurably reassured and hopeful of success in her desperate
venture, descended the steps of her mansion, and, gathering up her rohes daintily, mounted her horse, which
had long been chafing in the hands o had long been chafing in his mistress. her groom whe man remain at home until her return, and dashed off dowin the Rue St. Louis, drawing after her
a hundred eyes of admiration and envy. She would ride down to the Place d. Armes, she thought, where she knew that heforo che had skirted the
leneth of the Castle wall half a dozen lencth of the Castle wall half a dozen
gallants would greet her with offers of escort, and drop any business the
had in hand for the sake of a gallop had in hand for the sake of a ga
by her side.-(To be continued.)

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"Black Knight" Stove Polish gives the ine that lasts. Just a sman a few light rubs with cloth or brush brings a shine you can see your face black. ick, clean and easy way of shining Try the quick,

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ails, Tubs, Milk Pans, Handy the elc., ther ders costs, It is seamless. Has no hoops. Never leaks. Does not water, milk or olher liquids.

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actured by the
E. B, Eddy Company, Ltdd, Hutl, Can.
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testimonials. 5oc. a box at all dea.i.ers, or The testimonials. 50c. a box at all deai.ers, or THB
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100 Part roling ; 30 acres standing timber
 continuation school, churches and bank at Claremon
good frame house of 7 rooms. bank barn etce, all
git good rrame
Eood repair ;
1,500 down.
We have a number of farms of different kinds an sizes, and at varying, prices, for sale in York and
Ontariocounties,
Send find dir descrivg distance of Toronto
Sent Send for descriptive list.
Whitevale. Ontario.
you; treat them grea
show themselves grea

# CHRSTMASSALE $52 \sin ^{2}$ man <br>  

ON SALE ON AND AFTER NOVEMBER 29th
Every feather has been carefully made specially for this sale-they're perfect beautiful plumes with full long fibre, glossy and well curled
The illustration briefly tells the story, giving size and price. The Fashion centres claim that Ostrich Plumes are going to be popular
colors are black and ivory
We advise an early selection as they won't last long at these prices. Such prices are rare and if you are not perfectly satisfied your money is quickly refundes

## NOTE THE SIZE AND PRICE

Sale Price 2.75 Sale Price 4.95
909. Salle Price 4.95
all through the winter. Therefore, nothing will be more acceptable to your mother, sister or plumes.
Thimes.

## 1800 FEATHERS IN THE LOT

All Mall Orders filled in order as received as long as this quantity lasts
For Christmas
Suggestions got

Jewelry Catalogue
sent free upon
request

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\begin{aligned}
& \alpha^{\star \psi} \cdot E A T O M \\
& \text { TORONTO }
\end{aligned} \underset{\text { CANADA }}{\text { Cimited }}
$$

 effective, will be part of the programme. Mr. Lancaster will again
introduce a bill looking to better introduce a bill looking to
protection at railway crossings.

The naval programine, as laid on The naval programine, as aid on
the table of the House on Nov., 17 th, the table of the House on Nov, cruisers and four destroyers, two
cruisers to be placed on the Pacific cruisers to be placed on the Pacific
coast, and the other, with the decoast, and the other,
stroyers, on the Atlantic. The total
number of men necessary for manning stroyers, on men necessary for manning
number of
the vessels is estimated at 1,408 , the vessels is estimated at and the total
$\$ 7.300,000$.

TRADE TOPICS.
Christmas stamps.-The sale of Christmas Stamps in aid of the Muskoka Free Hospital for Consumptives will te carried on this year as Mast. For information and National
write to Mr. J. S. Robertson, Nate write to Mr. J. S. Robertson, National
Sanitarium Association, 347 King street Sanitarium Assoctant
wost
fering two grand young jersey bulls. March and
Aprit calves. Write ofr prices.
Thosesters.
Thames Valloy Farm, Dorchester, Ont.
HAMPSHIRE SWINE!

Leghorn cockerels
Sydentiam, Ont.

## HOCKEY SKATES

XMAS POSTGARDS, 6 FOR IOC


(irenfell, of the Labrador, was Mr. (ireniell. of the Latime ator, wae sth 10 Mise inna NcClannahan.

## Revolt is again rife in Nicaragua,

 and imore than 500 revolutionistshave been execuled, by order of Pres. have been executed, by order of Tres.

## A scheme to make Montreal the

 Aival of Sew York in the excellence of its harhor arcommodationbe laid before Parliament.

1. Louise E:obinovitch, on Novem

Ir. Louise Ruchinovitch, on Novem-
her 18th, sucessfully demonstrated
her 18th, sacesssing life again upon
subiects
shock.
declared dead from electric
Her apparatus was employed shock, Her app
upon a rabbit.

Parliament, at present in session at
Otarlame, plunged at once into discus-
Otan of the Canadian navy question. Resolve not to be poor : whatever you ottwa, plunged at once into discus-
have, spend less.
ion of the Canadian navy question.

$$
6490 \text { Boy's Indian }
$$


 Some farmers and dai-
rymen first buy disk filled rymen first buy disk filled
or other common cream
separators-use them a separators-use them a
while -discover they are
not not modern-then out
they go for Shaples they go for Sharples
Dairy Tubulars. That is paying dear for than continuing to to use
them
com separators. This
 TEE SHARPLES SEPARATOR CO. Toronto, OnL, WImilipeg, Man.





 | columns. No No |
| :---: |
| than 30 cents |


 Moofft, and pults, $\$ 1$ and $\$ 2$ each. Thomas Amos.


 Strictly New-Laid Iggs Wanted!
 returns the
unt atice
molicited MENRY GATEHOUSE DRESSED POULTRY
P. Poulin \& Co., Montreal, and get the top market price. Prompt returns. No
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JOHN HALLAM, TORONTO 7\% GUARANTEED Retuma tapatuly teure A Apotal ared ROBERT E. KEMERER
 beld in the wellington Hotal, Guelph, on
Wednesesday, DDeember 8 st, at 10 at 10 ciock
 deant and other ofticers, and tho tranaca-
tion ot goneral busines.
The members
 the Hereford interest.


## GET AN I.H.C. GASOLINE ENGINE TO WORK FOR YOU

H. C. engines and prosperity are going hand-in-hand on thousands
of farms. I. H. C. gasoline engines are the farmers' willing
workers that do not ask for wages or days off or refuse to work of farms.
workers that do not as
when the weather is bad.

Just give the wheel a turn-and a whole string of your other machines will get busy. You can run half a dozen of them at once, if you like-sawing, grinding, churning, separating cream, pumping water
etc. Your simple, powerful 1. H.C. gasoline engine will furnish powe for them all.
One great advantage of these engines is their ever readiness. They
On enable you te do your hardest jobs
you have been able to do them before.
There are hundreds of places where you would like to use a power-some-
 you can have the Joth our old-style power. If it's a long, steady run, like a
even get ready with your
day's job of sawing wood, the engine will keep your saw going steadily hour even get readywing wood, the engine will keep your saw going steadily hour
dap's ob of sawing
after hour. The engine will take care of itself-all you have to do is to just after hour
isaw wood
The e
The expense is only a few cents for gasoline for the whole day's work,
There's no waste of time and fuel in starting up. And all expense stops the
instant the work stops.
You need an I H. . engine to take the short cut on your work. Figure on the matter-see how soon the will pay for tiself by getting full service for you
out of your other machines. The engnes are simple and easy to understand.
You will have no trouble in learning to operate one of them Go to our local agent and look over the line It includes an engine for
every section and every problem, of all sizes and all costs, for all farm usesevery section and every problem, of all sizes and all costs, for all farm uses
verucal and horizontal (both stationary and portable) engines on skus, saw
ing ing., pumping and spraying outfits. It also includes I. H. C. . gasoline tract
first-prize gold-medal winners-the best all'round farm tractor by test. Call on our local agent in your town and talk the matter over with him.
He will supply you whith cataloges and all information Or if you prefer,
write nearest branch house for catalogue and full particulars.
 INTERNATIONAL HARVESTER COMPANY OF AMERICA Chicago, U. S. A.
(11) I-HC

Buy the Harrow, with the greatest capacity and the lightest draft.


NOVEMBER 25, 1909

Miscellaneous.
SILO QUERIES

1. How much material will be required
build a silo $12 \times 30$, inside ? 2. Which would you advise, gravel and
cement, or sand (good, gritty), and use small field stones? 3. What thickness should walls be, and
what reinforcement is required? Please give any information you can, as there
are likely to be several erected in this are likely to be several erected in this
alocality the coming summer. J. R. P. Ans. -1 . About 6 cords of gravel and
30 to 35 barrels of cement. 2. (iravet is the best. There is no
enson why small field stones should not
$\qquad$ wall at the bottom 18 inches wide.
After it is clear of the ground, a thickhess of 8 inches is sufficient, tapering to inches thick at the top. A triple of larlied wire, every ${ }^{2} \mathrm{wo}$ and a hall feet,
would answer for reinforcement. If more convenient, a hoop of quarter-incl
round irom, looped together where ends neet. would be all right. It is bette
to have too rich a concrete than one no to have too rich a concrete than one no
rich enough. A proportion of one to
six or geven of gravel is quite sule Many are bailt one to nine or ten, bu
it is just possible that time will prov it is juse possible tha

CONTINUOUS HEMORRHAGEUNTHRIFTY MARE
2. About the first of June my mare
started a slit bleeding. She foaled in
(wo weeks, but
inued ever since
3. Another mare remains very thin
although well ted. She seems to feel
W. R.
Ans.-1. I must confess that I do not
understand what you mean by "started
understand
a slit bleedimg." If you mean a wound
that refused to heal, and bleeds a little,
hat refused to heal, and bleeds a nitte,
with a ${ }^{5}$-percthe in water, the edges of wound scari-
acid in water, the edges of wound scari-
fied and stitohed, and then dress three
times daily with the above lotion until
healed. If this be not the trouble, if
you oxplaim what you mean by a slit
you oxplaie what able to help you.
1 will probally be able to
4. Have her teeth dressed by a vet-
erinarian, and give her a tablespoonfu
of the following three times daily, viz.
Equal parte sulphate of iron, gentian
Equal parte sulphate
ginger, and nux vomica.
$\qquad$
$\qquad$


## The Price to of the Edison <br> Thonograph

An Edison Phonograph can be bought for your price whether it is $\$ 16.25$ or a higher price up to $\$ 162.50$, all playing both Amberol and Standard Records.
But you cannot measure the Phonograph by money. Whether the price is $\$ 16.50$ or $\$ 162.50$, it is not much to pay for an instrument that will last a lifetime, which will furnish you good music every day, which will furnish you better entertainment than you can buy in any other way, which will teach your children to love the best music which will bring into your own home what other people pay large sums and go a long distance to hear.


nATIONAL Phonograph company
to Lakooide Ave., Orange, N. J.. U.s.A.

|  |  |
| :---: | :---: |

## The highest medical authority on foods,

Sir James Crichton Browne, LL.D.-F.R.S. of London,
gives the best reasoms for eating more

## Quaker Oats

In an article published in the Youth's Companion of September 23rd, 1909. Dr. Browne, the great medical authority on foods, says, about brain and muscle building

There is one kind of food that seems to me of marked value as a food to the brain and to the whole body throughou (youth), and that is oatmeal.
"Oats are the most nutritious of all the cereals, being richer in fats, organic phosphorus and lecithins.'

He says oatmeal is gaining ground with the well-to-do of as the mainstay of the Scottish laborer's diet and says it pro
duces a big-boned, well-developed, mentally energetic race. His experiments prove tha good oatmeal such as Quake Oats not only furnishes the bes food for the human being, but eating it strengthens and eni larges the thyroid gland-this gl nd is intimately connected of the body.

In conclusion he says
'It seems probable therefore that the bulk and brawniness of the Northerners (meaning the Scotch) has been in some measure due to the stimulation of the thyroid gland by, oatmeal porridge in childhood.
The Scotch eat Quaker Oats because it is the best of all oat meals.

HORSE OWNERS! USE


71 Beaver Hall Hill Montreal, P.O... Sept. 30,1909 .
Troy Chemical Co., Binghaton,




 \$, 00 a bottlet. with legal wrot ten guarantee or


For Lame Horses


Tuttie's Elixir


THE FARMER'S ADVOCATE


$\underset{\text { STOCK - YAR }}{\substack{\text { UNION }}}$






T. H. HASSARD'S NEW IMPORTATION!


Clydesdale Stallions and Fillies are now in my stables at Markham, Ont., and, as usual, I have a big range for
selection, of a type, breeding and quality seldom equalled, never excelled, by any

Clydesdales and Percherons
 a lot that for true draft tharacter, faultess underpinht.
were enever surpassed. Terms to suit and prices right. w. B. COLBY, MANAGER. WESTON, ONT.



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MY NEW IMPORTATION TO HAND.

คIn my new importation of 4 Clydessala Stallions and 6 Clydesdale Filliles, I have
materiat that will sand comparison with annthing ever imported. They have great size,
becautiful mould full of quality right fashionably bred and perfict action. right fashionably bred and perfect action.
JOHN A. BOAG $\& ~ \$ O N$. QUEENSVILLE, ONTARIO.
Clydesdales Home from the Shows


nCLYDESDALES Thedi breding is unexcelled ; their type and quality all that could be desired. If in want
of the best come and secthen
Terms to suit. Phone consection. WM. COLQUHOUN, Mitchell, Ont.


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 ORMSBY GRANGE STOCK FARM, Ormstown, P.Q.

Plasas Merion The Farmer's Adrocate

TOVEMBER 25, 1909


DUNHAMS' PERCHERONS






Mr. A. J. Hickman Court Lodse. Eserton, Kent, Ensland, AL


 $\xlongequal{\text { ported so cheaply. Write forterms }}$
 at such a loargaine the inscription:
in tig letters, was the when he sees
"Satan trembles when
Saibles sold as low as these."

THE FARMER'S ADVOCATE
QUESTIONS AND ANSWERS BUCKWHEAT FLOUR VERSUS BUCKWHEAT
OIL CAKE-CHURNING.
Will you plense answer the following
C. H. ROGERS, WALKERTON, CAN. dirbct exportbr and manupacturer.
ARTHUR JOHNSTON, GRENWOOD, ONT. Offers for sale 12 YOUNG BULLS, as well bred and as attractive a Offers he ever offered to his customers. In age they range from 10
lo as Arthur Johnston, Greenwood P. O., Ont. Claremont Station.

30 HEIFERS AND 29 BULLS
Bred right, made right and at prices to mate you feel right. Come early
H. CARGILL \& SON, CARGILL,ONT.

Veterinary.
RHEUMATISM
RHEUMATISM.
In August, 1908 cow went very lame
$\qquad$
$\qquad$
$\qquad$
$\qquad$
She should be kept in a dry
Give her a purgative o
lace.
d three times daily, and ruhs the foints
mphorated liniment. It would be wise


All ages. Not exhibiting this year
H. Smith, Exeter, Ont.

I. Smith,


VALLEY HOME SHORTHORNS AND BERKS young bull

 FEW YOUNG BULLS AIN 20 FOE PRIVATE SALE

 Belmar Parc.
Meadow Lawn Shopthorns


## SAMPLE BOTTLE CURED HER

Of Eczema on Her Mands.
We are always glad of an opportunity to send a sample bottle of D. D. D. Pre-
ecription to an eczema sufferer, because we are sure it will stop the awful, torturing itch at once, and start the patient on the road to recovery. But
no one expects the necessarily small sample bottle to complete the cure. Madame is Mathilda Boudreau, of Amherst, Magdalen Islands. Writing on June 18th last, she says :
"I was suffering with eczema on the started using D. D. D. Prescription, and after I used a sample bottle I was entirely cured. I recommend D. D.
anybody suffering with skin disease, D. D. D. directly attacks the aserms the skin which cause eczema-kills themrelieves the torturing itch at once, and restores the skin to a healthy condition. For free sample bottle of D. D. D.
Prescription, write to the D. D. D.
Laboratory, Department A, 23 Jordan Laboratory,
St.. Toronto.
For sale by all druggista.
THE "MAPLES" HEREFORDS

 and show stock;
neme number of
better. Prices righ W. H. MUNTER, Oransoville P.O. and sta. Balmedic Polled Angus shd Oxford Down

 Imported Bull

 aleo two youn
Lady dame.
GEO. B. ARMSTRONG, Teeswater, Ont. The commercial traveller had been sum-
moned as a witness, and the K. C. for the defence was crossexamining him, and "exes.," etc. "You travel for Jobson, Hobson, Slob-
:son \& Co., don't you?" said the K. C.
"Yes, sir."
"How long have you been in their em"ploy ?"
"And you have been travelling all that
time, have you ?" time, have you? "Well, mo, sir," confessed the nothing-
hut-the-truthrul witness, making a hasty
smentat calculntion. smental calculation, "not actually travel-
ling. I have put in about four years
of that time waiting at railway sta-

## Suffered Terrible <br> Pains From Her Kidmeys For Nine nitonthe.

For Backache, Lame or Weak Backsymmptoms of kidney inaction, there is no remedy equal to Doan's Kidney Pills for taking out the giving perfect comfort
A medicine that strengthens the kidneys so that they are enabled to extract and prevent the chief cause of Rheuma-
atism. Mr. Dougald A. Mclisaac, Broad Cove
Banks, N.S., writes:-"I was troubled with my kidneys for nine months, and suffered with such terrible pains across the small of my back all the time that 1 could hardly get around. After taking
two boxes of Doan's Kidney Pills I began to feel better, and by the time I had taken three I was completely cured Prive 50 cents per box, or 3 for $\$ 1.25$,
sall dealers or mailed direct all dealers or mailed direct on receipt o Toronto, Cnt.
When ordering specify "Doan's."

## QUESTIONS AND ANSWERS

 MiscellaneousPROFITABLE EXCHANGE OF I have on hand albundance of corn,
barley, and oat straw, to feed milch cows and fattening cattle. Will it pay me to sell the barley and buy bran, it so, at what prices? An early reply will oblige. Ans.-It will most assuredly pay bran and oil-cake meal, especially for ing. The Woll (American) standard for a dairy cow, in full milk, calls for 2.15
pounds protein. 13.27 pounds carbeh pounds protein, 13.27 pounds carbohy
drates, and 74 pounds ether extract fat, the nutritive ratio being $1: 6$.
Now, using oat straw as the only rough age with corn and barley meal for con
centrates, it is absolutely impossible t centrates, it is absolutely impossible to
supply anywhere near enough protei without allowing a great deal more meal than the cow could probably digest, and
at that, it would be wasteful at that, it would be wasteful, and prob-
ably too fattening, because of the great excess of carbohydrates. To illustrat
the point, let us suppose a ration con sisting of these three feeds only:

## Oat sbra Barley <br> Barley .... Corn

| Total …… ... | $\overline{27}$ | $\frac{.474}{1.176}$ | $\frac{4.002}{13.728}$ | - |
| :--- | :--- | :--- | :--- | :--- | :--- |

Here we have a trifle more carbohy-
drates than the standard calls for, but Iess fat (though this latter fact is nat
of prime importance). The great d of prime importances).
ficlency is in protein, bence the ration is
very very ill balan
ing $1: 12.58$.
ing 1:12.58. Yet this ration, unsuit-
able though it is, will cost for meal alone, figuring on a basis of Toront
market values, 14.52 conts per head per Now, let us see how to improve, and
at the same time cheapen it. With a vien to using as much of the homegrown
grains as possille, let us try the follo ing and see how it works the folloy
 -
$\qquad$
Lis. Oat strav
Barley
Corn Corn
Oil cahe
Bran

## FREE UNTIL CURED <br> 

Forty years ago, when I first discarded drugs and devoted my business on to-day's basis, but I have so perfected my Electrical Appli ances, and the knowledge I have gained from all these years of ex
perience and research is so great, that I will now give my world famed Dr. Sanden Electric Belt, with Electric Suspensory, to any man who suffiers from Nervous Debility, Varicocele, Lost Vigor, Rheuma

## FREE UNTIL CURED

I don't ask you to pay or deposit one cent until I convince you.
Simply call or write for a Belt and wear it for two months, and if cured pay me the usual price. If not cured, return the Belt, and that brought forth many imitators, and I must caution the public against their worthless, blistering imitations.
Call to-day and take a Belt along, or write for one and my two
valuable books on Electricity and its medical uses. Sent, sealed, free
DR. A. F. SANDEN, ronse st., Toronto, Ont. Office Hours 9 to 6; Saturdays Until 9 p. m.

HIGH-CLASS SHORTHORNS Spring Valley Sherthorns.
 if

|  |  |  |
| :---: | :---: | :---: |
| IMPORTED SCOTCHHORN BULLS.choice yearlings -2 reds |  |  |
|  |  |  |
|  |  |  |
| Quality, pedigree and prices will please you. Farm $1 / 4$ mile from Burlington Junction station. FRED. BARNETT, Manaser. J. F. MITCHELL BURLINGTON, ONT.Long-distance telephone. |  |  |
| PRESENT OFFERING $\begin{gathered}\text { Two yearling bullie, eight under a year, at very reasonable prices } \\ \text { in order to }\end{gathered}$ We can sell some extra well-bred in orws, bred or or with calvea at foot, at prices which should interese intending purchasers. Farms close to Burlington Junction Station. Long-distance 'phone. W. G. PETTIT \&\& SONS, FREEMAN, ONTARIO. |  |  |
|  |  |  |
| INVERNESS SHORTHORNS can supply Shorthorns, of all ageen, with richest W. H. BASTERBROOK. Freemality.$\qquad$ |  |  |
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| PORTER BROS., APPLEBY P.O., BURLINGTON STA. 'Phone. |  |  |

JOHN GARDHOUSE \& SONS |Green Grove Shorthorns and Yorkshires
 highfield p.o. ontario. Scotch Shorthorn herd, among which are mai

 Geo. Di. Fletche
ping staticn, C.P.
WILLOWDALE SHORTHORNS

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Shorthorn Cattle and Lincoln sheep
Females of all ages or sale, of the thick. feshed, low-
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 J. T. GIBSON, DENFIELD, ONT. SHORTHORNS
 Cows and heifers. Herd headed by Count Beauty
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 and granddaughters of
Young bulls also for sal R.
R. J. DOYLE, O wen sound, 0 mt .
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854- Maplo Lodge Stock Farm-1909 8horthern bulls and helfers of extra
quality and breeding. and from best millk. ing strains.
Lelcester
A. W. SMITH. Maple Lodge P.O., Ontarle SHORTHORNS, BERKSHIRES COTSWOLDS.
 y doren good ram. lambs.
CHAS. BONNYCAST ATION and P. O., CAMPBELLFORD, ONT. GLENGOW Shorthorns
 Wm. Smith, Columbus. Ont. Clover Dell Shorthorns
 Have several young bunts fork
sale, of show quality; dark
colors, from good milking dams. WAKELY. BOLTON. ONT. High-class Scotch Shor thorns
 heiters. Most among them. Also one two year-lld Civdecdale stallion, with size and quality.
Goodfellow Bres. Mantion $\begin{aligned} & \text { Bration } \\ & \text { Bolton station. }\end{aligned}$ O. Ontario SHORTHORNS for sale 1 am offeri, g for
 and see me.
HUGH THOMSON, BOX 556. ST MAR'S. OMT Shorthorns and Leicesters ${ }^{-1}$ choicely.brered young bulls and heiters from grand milking dand and CALVES Rases lem minout Min


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous.
(Continued from page 1862 he protein, since the addition of half a ond of cake hardly compensates
a the loss of two pounds of barley. rates much more than the protein, we
ave improved the balance, the ratio
ave being 1:7.54. The cost of our pres-
ow bin now being 1:7.54. The cost of our pres-
no meal ration is reduced to 11.245,
not meactically, $11 \ddagger$ cents per head per
r, practic it would pay to balance up this ration
still further, by adding, or substituting, feeds rich in protein. This might be ac-
complished in several ways. Clover, or
alfulfa hay, as part of the rong
all alfilfa hay, as part of the roughage,
would greatly improve the ration. It
this is not available, we might
couple of pounds should be understoond that it it is difficult
to compose stand well-balunced standard
to
ration with straw as the only without employing more of the concen
trated meals than is advisable in the in terests of economy and good in thestion
is these meals are expensive, we would s. these meals are expensive, we would
preter to content ourselves with a scan inher ill-balanced ration, somewhat
as indicate in our last table. Thi
asin should give fair results, much better r
sults than could he obtained with barle
and corn alone, and at and corn alone, and at much less cost
he saving, on a basis of Toronto quota
tions, being about three and a

$\qquad$

$\qquad$ farmer claims to have repelled them b
fumigating his sed grain with sulphur 2. Barley und clover are less subject
to attack than most crops. Would ad-
vith vise sowing barley and seeding wit
clover.
3 . Corn is specially subject to attact
and probally root crops would be in ured also, though not so serious BITTERSWEET NIGHTSHADE I am sendinh, or vine, with cluster
a small
red berries attached, which 1 find gro
ing and ing along fences where cattle cannot
stroy them. They have only lately a
peared in this part. Kindly name the and state their qualities, and if poison
ous? Do they belong to the tomaty

## Ans.-The plant of which a fruiting biranch was sent, is the littersweet night-


$\qquad$
DANGEROUS DOG.
$\qquad$ A.EdwardMeyer P. O. Box 378, Guelph, Ont., Breeds SCOTCH SHHORTHORNS Exclusively.
Wever of the most noted Scotch tribes haye repro
entatives in my herd. Herd bulls : Sootish Hero

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A Edward Meyer ${ }^{\text {Geo. Amos \& Sons, }}$ morfat, ontario
For Sale: Seven bulls, some of them show. bulls,
nost of them from inported sires and dams. Write
or call and see us befor most of them from imported sires and
us, or call and see us before buying. Moffat Station, II Mulles East of Clity Morfat stationelph, on C. P. R.

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 alton and prices write
${ }_{H}$. BOLLERT, Cassel, Ont:
tion and

OR SALE: COWS AND HEIFERS
 CRAMPTON, ONTARIO Fairview Herd
 and E. H. Dollar, Heuvelton, N. Y.
MEAR pressoort.

 AGAIN!E. \& F. MALLORY, Frankford, Ont.
 HOLSTEINS $\begin{gathered}\text { cow due to freshen next March. } \\ \text { Netherland } J \text { Johanna Mercedes, }\end{gathered}$


WORLD'SCHAMPIONBRED BU
Grace Fayne $2 n d$ 's sir Colantha.



Lakeview Herd head- Count Hengerveld Fayne De Kol, Holsteins the ONLT BULL in the world whose sire has 5 daughters averaging ove

Maple Hill Holstein-Frieslans! The Maples Holstein Herd
 record-of-Merit cows. Headed by Lord Wayne Mechthilde Calamity.
otbing for sole at preent but choice bull calves Notbing for sale at presen
from Record-of-Merit dama.
Wallurn Rivers, Folden's Cormers, Ont.
G. W. Clemons, St. George, Ont RIVERSIDE HOLSTEINS $\begin{gathered}\text { Herd contains } 100 \text { head; ; over } 30 \text { temales in Recora or and sirf's }\end{gathered}$

Holsteins at Ridgedale Farm-Eight bull (Glenwood Stock Farm- Molstelms and



## ए A Few Reasons Why Our <br> Commend Themselves to the Farming Community

 Because $\begin{gathered}\text { We have done away with wood as an } \\ \text { essential material in its construction. }\end{gathered} \quad$ Because $\begin{aligned} & \text { We can raise and lower much quick } \\ & \text { with no rattling of gear or chains. }\end{aligned}$ Because $\begin{gathered}\text { We have abising and loweding the old way of the the with } \\ \text { chains and sprocket wheels. }\end{gathered} \quad$ Because $\begin{aligned} & \text { What gear we use is encased so that } \\ & \text { it tept perfectly clean and free from } \\ & \text { grit or dirt. }\end{aligned}$
(10)
R. Dillon se son, south Oshavia, Ont. manufacturers iot may forks, slings. barn-door latches, barnddoor rollers and hardware specialities.


Brampion Jerseys
 ail SPRINGBROOK are large producers of milk SPRINGBROKK

W. F. STEPHEN. Box 183 . Huntinsdon. Que.
 to dine with him at rather a kood hot
in Washington. it was in the tull, an $\stackrel{M}{\text { Mr. }}$
${ }^{\text {said: }}$ Say, Mr Cannen, what dons it co
you to board here?",
"About five dollars
'annon.
"III
tituent.


Just Landed with 50 Head CHOICE AYRSHIRES


 R. R. NESS, HOWICK, QUE.
 Mry new inpor a range of selection, either imported or canal York-
arge herd thave
bred, of either y oung bulls or females, unexeceled in Canada. York-
shires of either sex and any age always on hand. Long distance ALEX. HUME \& CO., MENIE, ONT. "Trxanimil
 Stonehouse Ayrshires 분u


Ayrshires from arizewinming Herr- Phannon Bank Ayrshires and Yorkahires. Ylves for sale at reasonable pricee. For particulars, ing young bulls and heifers, true tor pee and high in



## SHROPSHIRES Farnham 0xford Downs

|  |  |
| :---: | :---: |
|  | imported sires and from imp |
|  |  |
| MAPLE VILLA OXFORDS AND YORKSHIRES. <br> Present offering: Excellent ewes, choice rams, and the best lot of lambs I ever offered ; all sired by imported rams. Yorkshires of both sexes and all ages. Boars fit for service. Sows ready to breed. A high-class lot. Satisfaction assured. <br> J. A. CERSWELL, BOND HEAD P. O., ONT., BRADFORD or BEETON STAS. |  |
|  | Shropshires, Shirea and Clydendalen-Highand ewes, ram lambs and ewe lambs. from Imported and Canadian-bred stock show stuff; Shire and Clydesdale fillies; White Wyandotte cockerel head P. O., Bradford or Beeton stations. |
| SOUTHDOWNS AND COLLIES | $\begin{aligned} & \text { imported first prize shearling ram at } \\ & \text { Toronto this fall. Also a lew good } \\ & \text { yearling rams and ram lambs that } \\ & \text { McEWEN. BYRON, ONI ARIO. } \end{aligned}$ |
|  |  |
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